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Table 1. The Colorado Model Content Standards and Subcontent Areas

	Reading	
	Content Standards	
CS	Grades	
1	3-10	Reading Comprehension
4	4-10	Thinking Skills
5	4-10	Use of Literary Information
6	4-10	Literature
	Subcontent Areas	
SA	Grades	
1	7-10	Fiction
2	3-10	Nonfiction
3	3-10	Vocabulary
4	7-10	Poetry
1/4	3-6	Fiction and Poetry
	Writing	
	Content Standards	
CS	Grades	
2	3-10	Write for a Variety of Purposes
3	3-10	Write Using Conventions
	Subcontent Areas	
SA	Grades	
5	3-10	Paragraph Writing
6	4-10	Extended Writing
7	3-10	Grammar and Usage
8	3-10	Mechanics
	Mathematics	
	Content Standards	
CS	Grades	
1	3-6	Number Sense
2	4-10	Algebra, Patterns, and Functions
2/3	3	Algebra, Patterns, and Functions / Statistics and Probability
3	4-10	Statistics and Probability
4/5	3-10	Geometry and Measurement
6	3-6	Computational Techniques
1/6	7-10	Number Sense and Computational Techniques

Table 1. The Colorado Model Content Standards and Subcontent Areas (cont'd)

		Mathematics (Continued)
		Subcontent Areas
SA	Grades	
1	4-6	Number and Operation Sense
1	7	Number Sense
1	8	Linear Pattern Representation
1	9	Multiple Representations of Linear/Nonlinear Functions
1	10	Multiple Representations of Functions
2	4-6	Patterns
2	7	Area and Perimeter Relationships
2	8-9	Proportional Thinking
2	10	Probability and Counting Techniques
3	4	Measurement
3	5	Data Displays
3	6 and 8	Geometry

		Science
		Content Standards
CS	Grades	
1/5	5, 8, and 10	Scientific Investigation and the Nature of Science
2	5, 8, and 10	Physical Science
3	5, 8, and 10	Life Science
4	5, 8, and 10	Earth and Space Science
		Subcontent Areas
SA	Grades	
1	5, 8, and 10	Experimental Design and Investigations
2	5, 8, and 10	Results and Data Analysis
3	8	Physics Concepts
4	10	Chemistry Concepts
5	8 and 10	Life Processes
6	8 and 10	Geology and Astronomy

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Table 2. Configuration of 2013 TCAP Assessments

Content Area	Grade	Maximum Possible Points	Total # of Items			Frequency of CR Items with the Given Number of Maximum Points			
			MC	CR	Total	1	2	3	4
Reading	3	52	32	8	40		4	4	
	4	91	56	14	70		7	7	
	5[*1]	89	54	14	68		7	7	
	6[*2]	89	55	14	69		8	6	
	7[*3]	90	55	14	69		8	5	1
	8[*4]	90	55	14	69		7	7	
	9[*5]	93	54	14	68		3	11	
	10[*6]	92	53	14	67		3	11	
Writing	3	56	35	18	53	15	3		
	4	69	40	13	53	7	1		5
	5	69	40	13	53	7	1		5
	6	69	40	13	53	7	1		5
	7	69	40	13	53	7	1		5
	8	69	40	13	53	7	1		5
	9[*7]	68	39	13	52	7	1		5
	10	69	40	13	53	7	1		5
Mathematics	3	50	32	8	40		6	2	
	4	96	54	15	69		6	6	3
	5[*8]	94	54	14	68		5	6	3
	6	87	45	15	60		6	6	3
	7	87	45	15	60		6	6	3
	8[*9]	84	42	15	57		6	6	3
	9[*10]	86	44	15	59		6	6	3
	10	87	45	15	60		6	6	3
Science	5	88	57	18	75	5	13		
	8	100	60	23	83	8	14		1
	10[*11]	96	56	23	79	8	14		1
Reading Spanish	3	52	32	8	40		4	4	
	4	91	56	14	70		7	7	
Writing Spanish	3	56	35	18	53	15	3		
	4	69	40	13	53	7	1		5

*Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.

1. 2 MC items removed
2. 1 MC item removed
3. 1 MC item removed
4. 1 MC item removed
5. 2 MC items removed
6. 3 MC items removed
7. 1 MC item removed
8. 1 CR item removed
9. 3 MC items removed
10. 1 MC item removed
11. 4 MC items removed

Table 3. Configuration of 2013 TCAP Reading Assessments by Grade, Content Standard, Subcontent Area, and Item Type

| | | | Content Standard | | | | | | | | Subcontent Area | | | | | | | | |
| | | | 1 | | 4 | | 5 | | 6 | | 1 | | 1/4 | | 2 | | 3 | | 4 | |
Grade	Content Area	Item Type	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Reading	MC	32	32									12	12	7	7	13	13		
		CR	8	20									7	17	1	3				
4	Reading	MC	22	22	10	10	11	11	13	13			21	21	13	13	11	11		
		CR	6	15	3	8	3	7	2	5			8	19	3	9				
5	Reading[1]	MC	20	20	13	13	13	13	8	8			22	22	8	8	11	11		
		CR	5	11	2	5	3	7	4	12			8	20	3	8				
6	Reading[2]	MC	21	21	14	14	12	12	8	8			23	23	10	10	10	10		
		CR	4	9	3	7	3	7	4	11			7	17	4	10				
7	Reading[3]	MC	17	17	13	13	15	15	10	10	10	10			12	12	10	10	8	8
		CR	5	13	3	7	2	5	4	10	6	14			2	6			4	10
8	Reading[4]	MC	17	17	13	13	13	13	12	12	14	14			8	8	10	10	10	10
		CR	5	13	3	7	3	7	3	8	4	10			5	13			2	5
9	Reading[5]	MC	21	21	6	6	18	18	9	9	12	12			7	7	10	10	7	7
		CR	4	11	5	14	1	3	4	11	6	16			5	15			2	5
10	Reading[6]	MC	20	20	12	12	15	15	6	6	13	13			9	9	11	11	6	6
		CR	4	11	3	8	2	6	5	14	5	14			5	14			2	5
3	Spanish Reading	MC	32	32									13	13	7	7	12	12		
		CR	8	20									5	11	3	9				
4	Spanish Reading	MC	27	27	11	11	10	10	8	8			18	18	17	17	11	11		
		CR	4	10	3	7	3	8	4	10			8	20	3	7				

* Content area in which item(s) were removed from the calibration. Counts shown in this table do not include removed items.

1. Removed two MC items from calibration, one in CS4.d SA 2-NF and one in CS 4.d SA 1/4 FP
2. Removed one MC item from calibration in CS6.c SA 1/4 FP
3. Removed one MC item from calibration in CS1.d SA 2NF
4. Removed one MC item from calibration in CS1.d SA 2NF
5. Removed two MC items from calibration, one in CS 4a SA 1F and one in CS6a SA 1F
6. Removed three MC items form calibration, one in CS4a SA1F, one in CS6a SA1F, and one in CS1c SA 2NF

Table 4. Configuration of 2013 TCAP Writing Assessments by Grade, Content Standard, Subcontent Area, and Item Type

Grade	Content Area	Item Type	Content Standard 2 No. of Items	Content Standard 2 Total Pts.	Content Standard 3 No. of Items	Content Standard 3 Total Pts.	Subcontent 5 No. of Items	Subcontent 5 Total Pts.	Subcontent 6 No. of Items	Subcontent 6 Total Pts.	Subcontent 7 No. of Items	Subcontent 7 Total Pts.	Subcontent 8 No. of Items	Subcontent 8 Total Pts.
3	Writing	MC	12	12	23	23	6	6			16	16	7	7
		CR	9	12	9	9	12	15			3	3	3	3
4	Writing	MC	15	15	25	25	8	8			15	15	10	10
		CR	6	21	7	8	3	12	4	11	3	3	3	3
5	Writing	MC	15	15	25	25	9	9			17	17	12	12
		CR	6	21	7	8	3	12	4	11	3	3	3	3
6	Writing	MC	15	15	25	25	11	11			20	20	8	8
		CR	6	21	7	8	3	12	4	11	2	2	4	4
7	Writing	MC	15	15	25	25	7	7			20	20	9	9
		CR	6	21	7	8	3	12	4	11	2	2	4	4
8	Writing	MC	15	15	25	25	7	7			22	22	7	7
		CR	6	21	7	8	3	12	4	11	3	3	3	3
9	Writing[*1]	MC	14	14	25	25	9	9			17	17	10	10
		CR	6	21	7	8	3	12	4	11	3	3	3	3
10	Writing	MC	15	15	25	25	9	9			24	24	5	5
		CR	6	21	7	8	3	12	4	11	2	2	4	4
3	Spanish Writing	MC	12	12	23	23					17	17	7	7
		CR	9	12	9	9	12	15			3	3	3	3
4	Spanish Writing	MC	13	13	27	27	6	6			15	15	12	12
		CR	6	21	7	8	3	12	4	11	4	4	2	2

* Content area in which item(s) were removed from the calibration. Counts shown in this table do not include removed items.
1. Removed one MC item from calibration in CS2.c

Table 5. Configuration of 2013 TCAP Mathematics Assessments by Grade, Content Standard, Subcontent Area, and Item Type

Grade	Content Area	Item Type	CS1 No. Items	CS1 Total Pts.	CS1/6 No. Items	CS1/6 Total Pts.	CS2 No. Items	CS2 Total Pts.	CS2/3 No. Items	CS2/3 Total Pts.	CS3 No. Items	CS3 Total Pts.	CS4/5 No. Items	CS4/5 Total Pts.	CS6 No. Items	CS6 Total Pts.	SA1 No. Items	SA1 Total Pts.	SA2 No. Items	SA2 Total Pts.	SA3 No. Items	SA3 Total Pts.
3	Mathematics	MC	6	6					9	9			12	12	5	5						
		CR	2	4					2	4			2	5	2	5						
4	Mathematics	MC	10	10			6	6			9	9	17	17	12	12	10	10	6	6	6	6
		CR	4	10			3	8			2	5	4	12	2	7	6	17	3	8		
5	Mathematics*1	MC	14	14			8	8			7	7	11	11	14	14	13	13	3	3	6	6
		CR	2	5			4	11			3	10	3	9	2	5	2	5	4	11	1	4
6	Mathematics	MC	10	10			7	7			7	7	12	12	9	9	5	5	5	5	5	5
		CR	2	7			3	10			4	11	4	10	2	4	4	11	3	10	3	8
7	Mathematics	MC			15	15	9	9			9	9	12	12			3	3	6	6		
		CR			4	11	3	8			3	9	5	14			5	14	4	12		
8	Mathematics*2	MC			11	11	11	11			9	9	11	11			3	3	6	6	5	5
		CR			4	11	4	11			3	8	4	12			5	13	4	11	2	7
9	Mathematics*3	MC			10	10	11	11			12	12	11	11			6	6	5	5		
		CR			3	7	5	14			3	9	4	12			2	7	4	12		
10	Mathematics	MC			12	12	13	13			10	10	10	10			8	8	5	5		
		CR			2	5	5	14			4	11	4	12			6	19				

* Content area in which item(s) were removed from the calibration. Counts shown in this table do not include removed items.

1. Removed one CR item from calibration in CS 3

2. Removed three MC items from calibration, one in CS 4/5 SA 3G, one in CS 4/5 SA 2PT, and one in CS 4/5 SA3

3, Removed one MC item from calibration in CS 4/5

Table 6. Configuration of 2013 TCAP Science Assessments by Grade, Content Standard, Subcontent Area, and Item Type

Grade	Content Area	Item Type	Content Standard 1/5 No. of Items	Total Pts.	2 No. of Items	Total Pts.	3 No. of Items	Total Pts.	4 No. of Items	Total Pts.	Subcontent Area 1 No. of Items	Total Pts.	2 No. of Items	Total Pts.	3 No. of Items	Total Pts.	4 No. of Items	Total Pts.	5 No. of Items	Total Pts.	6 No. of Items	Total Pts.
5	Science	MC	15	15	13	13	14	14	15	15	8	8	4	4								
		CR	13	21	2	4	2	4	1	2	5	8	6	10								
8	Science	MC	23	23	15	15	8	8	14	14	9	9	13	13	9	9			5	5	9	9
		CR	10	17	3	6	7	12	3	5	4	6	5	9	3	6			2	3	3	5
10	Science[*1]	MC	19	19	14	14	11	11	12	12	7	7	7	7			11	11	9	9	8	8
		CR	12	21	3	4	3	6	5	9	6	11	6	10			2	3	3	6	3	5

* Content area in which item(s) were removed from the calibration. Counts shown in this table do not include removed items.

1. Removed four MC items from calibration, three in CS 3 SA 5LP and one in CS 2 SA 4C

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Table 7. Percentage of Items in Depth of Knowledge Levels

| Content Area | Grade | DOK Level | | | | | | Number of Items in Test |
| | | 1 | | 2 | | 3 | | |
		MC	CR	MC	CR	MC	CR	
Reading	3	33%	0%	48%	10%	0%	10%	40
	4	20%	1%	51%	7%	9%	11%	70
	5	9%	0%	60%	12%	10%	9%	68
	6	14%	0%	57%	9%	9%	12%	69
	7	16%	3%	48%	4%	16%	13%	69
	8	14%	1%	51%	6%	14%	13%	69
	9	25%	1%	46%	6%	9%	13%	68
	10	10%	1%	55%	4%	13%	15%	67
Writing	3	45%	11%	17%	0%	4%	23%	53
	4	51%	13%	21%	0%	4%	11%	53
	5	40%	13%	26%	0%	9%	11%	53
	6	34%	13%	32%	0%	9%	11%	53
	7	38%	13%	28%	0%	9%	11%	53
	8	34%	13%	32%	0%	9%	11%	53
	9	31%	13%	31%	0%	13%	12%	52
	10	32%	13%	30%	0%	13%	11%	53
Mathematics	3	30%	0%	48%	20%	3%	0%	40
	4	29%	0%	48%	13%	1%	9%	69
	5	25%	0%	54%	12%	0%	9%	68
	6	17%	0%	58%	15%	0%	10%	60
	7	17%	0%	50%	8%	8%	17%	60
	8	23%	0%	37%	9%	14%	18%	57
	9	19%	0%	51%	15%	5%	10%	59
	10	20%	0%	50%	12%	5%	13%	60
Science	5	23%	1%	47%	13%	7%	9%	75
	8	18%	0%	41%	18%	13%	10%	83
	10	16%	0%	47%	13%	8%	16%	79
Spanish Reading	3	0%	0%	80%	20%	0%	0%	40
	4	33%	1%	39%	16%	9%	1%	70
Spanish Writing	3	66%	17%	0%	17%	0%	0%	53
	4	64%	13%	11%	9%	0%	2%	53

Table 8. Percentage of Score Points in Depth of Knowledge Levels

Content Area	Grade	DOK Level						Total Number of Points in Test
		1		**2**		**3**		
		MC	CR	MC	CR	MC	CR	
Reading	3	25%	0%	37%	19%	0%	19%	52
	4	15%	3%	40%	12%	7%	23%	91
	5	7%	0%	46%	21%	8%	18%	89
	6	11%	0%	44%	15%	7%	24%	89
	7	12%	4%	37%	8%	12%	27%	90
	8	11%	2%	39%	11%	11%	26%	90
	9	18%	3%	33%	12%	6%	27%	93
	10	8%	2%	40%	9%	10%	32%	92
Writing	3	43%	11%	16%	0%	4%	27%	56
	4	39%	10%	16%	0%	3%	32%	69
	5	30%	10%	20%	0%	7%	32%	69
	6	26%	10%	25%	0%	7%	32%	69
	7	29%	10%	22%	0%	7%	32%	69
	8	26%	10%	25%	0%	7%	32%	69
	9	24%	10%	24%	0%	10%	32%	68
	10	25%	10%	23%	0%	10%	32%	69
Mathematics	3	24%	0%	38%	36%	2%	0%	50
	4	21%	0%	34%	24%	1%	20%	96
	5	18%	0%	39%	20%	0%	22%	94
	6	11%	0%	40%	26%	0%	22%	87
	7	11%	0%	34%	13%	6%	36%	87
	8	15%	0%	25%	15%	10%	35%	84
	9	13%	0%	35%	26%	3%	23%	86
	10	14%	0%	34%	20%	3%	29%	87
Science	5	19%	1%	40%	19%	6%	15%	88
	8	15%	0%	34%	26%	11%	14%	100
	10	14%	0%	39%	20%	6%	22%	96
Spanish Reading	3	0%	0%	62%	39%	0%	0%	52
	4	25%	2%	30%	34%	7%	2%	91
Spanish Writing	3	63%	16%	0%	21%	0%	0%	56
	4	49%	12%	9%	29%	0%	1%	69

Table 9. Previously Administered Items Selected for 2013 Test Forms that were Flagged for DIF or Fit

Language	Content Area	Grade	Item Type	2013 Item	2013 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Reading	3	MC	10	Yes	2012	E	0
English	Reading	4	CR	28		2012	E	0
English	Reading	4	MC	33		2012	E	0
English	Reading	4	CR	35		2012	0	1
English	Reading	4	CR	42		2012	E	0
English	Reading	4	MC	49		2011	E	0
English	Reading	5	CR	40		2012	0	1
English	Reading	6	MC	44		2012	0	1
English	Reading	6	CR	49		2012	E	0
English	Reading	7	CR	24		2012	E, G	0
English	Reading	8	CR	26		2011	E	0
English	Reading	8	CR	30		2012	E	0
English	Reading	8	MC	34	Yes	2012	E	0
English	Reading	8	MC	41		2011	E	0
English	Reading	8	CR	48		2009	E	0
English	Reading	8	CR	100		2012	E, G	0
English	Reading	9	CR	23		2011	E	0
English	Reading	9	CR	26		2012	E, G	0
English	Reading	9	CR	41		2011	E	0
English	Reading	9	CR	102		2010	E	0
English	Reading	10	CR	7		2011	G	0
English	Reading	10	CR	27		2012	0	1
English	Reading	10	CR	30		2012	E	0
English	Reading	10	CR	31		2012	E	0
English	Reading	10	MC	97	Yes	2012	0	1
English	Reading	10	CR	102		2010	E	0
English	Writing	4	CR	3A		2012	0	1
English	Writing	4	CR	77		2012	0	1
English	Writing	4	MC	78	Yes	2011	E	0
English	Writing	5	CR	93		2011	0	1
English	Writing	6	CR	3A		2012	E	1
English	Writing	6	CR	97		2011	0	1
English	Writing	6	CR	116		2012	G	0
English	Writing	7	CR	3A		2012	G	1
English	Writing	7	CR	3B		2012	G	0
English	Writing	7	MC	53	Yes	2012	E	0
English	Writing	7	CR	74		2011	G	0
English	Writing	7	CR	116		2011	E, G	0
English	Writing	8	CR	72		2011	G	0
English	Writing	8	CR	116		2011	G	1
English	Writing	9	CR	3A		2012	E	1
English	Writing	9	CR	3B		2012	E	0

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

Table 9. Previously Administered Items Selected for 2013 Test Forms that were Flagged for DIF or Fit (cont'd)

Language	Content Area	Grade	Item Type	2013 Item	2013 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Writing	9	MC	55	Yes	2010	E	0
English	Writing	9	MC	65		2011	0	1
English	Writing	9	CR	76		2011	G	0
English	Writing	9	CR	96		2012	E, G	0
English	Writing	10	MC	56		2011	0	1
English	Writing	10	CR	116		2012	E, G	0
English	Mathematics	3	CR	11		2009	E	0
English	Mathematics	4	CR	8		2011	0	1
English	Mathematics	4	MC	13		2011	E	0
English	Mathematics	5	CR	46		2010	E	0
English	Mathematics	5	CR	52		2009	0	1
English	Mathematics	6	MC	3	Yes	2012	E	0
English	Mathematics	6	CR	12		2012	0	1
English	Mathematics	6	CR	40		2012	0	1
English	Mathematics	6	CR	51		2009	0	1
English	Mathematics	6	MC	55		2012	E	0
English	Mathematics	7	CR	10		2012	0	1
English	Mathematics	7	CR	20		2012	0	1
English	Mathematics	7	CR	26		2011	0	1
English	Mathematics	7	CR	50		2012	0	1
English	Mathematics	7	CR	60		2009	G	0
English	Mathematics	8	CR	32		2012	0	1
English	Mathematics	8	CR	47		2012	E	1
English	Mathematics	8	CR	55		2012	0	1
English	Mathematics	9	MC	16		2012	0	1
English	Mathematics	9	MC	49		2010	0	1
English	Mathematics	9	CR	60		2012	E	1
English	Mathematics	10	MC	6		2012	0	1
English	Mathematics	10	MC	12		2010	0	1
English	Mathematics	10	CR	13		2012	0	1
English	Mathematics	10	CR	20		2012	E	0
English	Mathematics	10	CR	32		2009	E	0
English	Science	5	CR	24		2011	E	0
English	Science	5	CR	75		2011	E	0
English	Science	8	MC	2		2012	E	0
English	Science	8	CR	22		2011	E, G	0
English	Science	8	MC	65		2012	E	0
English	Science	8	CR	75		2012	0	1
English	Science	10	CR	22		2011	E, G	0
English	Science	10	CR	23		2011	E	0
English	Science	10	CR	24		2011	0	1
English	Science	10	CR	72		2012	E	0

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

Table 9. Previously Administered Items Selected for 2013 Test Forms that were Flagged for DIF or Fit (cont'd)

Language	Content Area	Grade	Item Type	2013 Item	2013 Anchor	Year Flagged	DIF Flag*	Fit Flag*
Spanish	Reading	3	CR	1		2007, 2008	0	1
Spanish	Reading	3	MC	7	yes	2004	0	1
Spanish	Reading	3	MC	14		2007	0	1
Spanish	Reading	3	MC	20	yes	2007	0	1
Spanish	Reading	3	MC	24	yes	2008	0	1
Spanish	Reading	3	CR	26		2002, 2003, 2006	0	1
Spanish	Reading	3	CR	32		2008	0	1
Spanish	Reading	3	CR	36		2008	0	1
Spanish	Reading	4	MC	15	yes	2005	0	1
Spanish	Reading	4	MC	19	yes	2008	0	1
Spanish	Reading	4	MC	21	yes	2008	0	1
Spanish	Reading	4	MC	23	yes	2004	0	1
Spanish	Reading	4	MC	26		2003, 2008	0	1
Spanish	Reading	4	MC	28	yes	2005, 2007	0	1
Spanish	Reading	4	MC	32		2008	0	1
Spanish	Reading	4	MC	38		2008	0	1
Spanish	Reading	4	MC	40		2008	0	1
Spanish	Reading	4	CR	42		2008	0	1
Spanish	Reading	4	CR	44		2004, 2008	0	1
Spanish	Reading	4	MC	46		2008	0	1
Spanish	Reading	4	MC	48		2004	0	1
Spanish	Reading	4	MC	92		2003, 2004	0	1
Spanish	Reading	4	MC	93	yes	2008	0	1
Spanish	Reading	4	MC	94		2003	0	1
Spanish	Reading	4	MC	95	yes	2008	0	1
Spanish	Reading	4	MC	102		2008	0	1
Spanish	Reading	4	MC	103		2008	0	1
Spanish	Reading	4	MC	107	yes	2005	0	1
Spanish	Reading	4	MC	110		2008	0	1
Spanish	Reading	4	MC	111		2008	0	1
Spanish	Reading	4	MC	113		2004	0	1
Spanish	Reading	4	MC	114		2008	0	1
Spanish	Writing	3	MC	6		2008	0	1
Spanish	Writing	3	CR	27A		2007	0	1

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

Table 9. Previously Administered Items Selected for 2013 Test Forms that were Flagged for DIF or Fit (cont'd)

Language	Content Area	Grade	Item Type	2013 Item	2013 Anchor	Year Flagged	DIF Flag*	Fit Flag*
Spanish	Writing	3	MC	34		2004	0	1
Spanish	Writing	4	CR	2F		2008	0	1
Spanish	Writing	4	CR	3A		2005	0	1
Spanish	Writing	4	MC	52	yes	2005	0	1
Spanish	Writing	4	MC	55	yes	2005	0	1
Spanish	Writing	4	MC	57		2008	0	1
Spanish	Writing	4	MC	58		2008	0	1
Spanish	Writing	4	MC	60		2008	0	1
Spanish	Writing	4	MC	61		2005	0	1
Spanish	Writing	4	MC	65	yes	2005	G	0
Spanish	Writing	4	MC	71	yes	2004	0	1
Spanish	Writing	4	MC	74		2004, 2008	0	1
Spanish	Writing	4	MC	75		2008	0	1
Spanish	Writing	4	MC	76		2005, 2008	0	1
Spanish	Writing	4	MC	79		2004, 2008	0	1
Spanish	Writing	4	MC	83		2008	0	1
Spanish	Writing	4	MC	85		2004	0	1
Spanish	Writing	4	MC	87		2008	0	1
Spanish	Writing	4	MC	89		2008	0	1

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

Table 10. Lowest and Highest Obtainable Scale Scores for the TCAP Assessments

Content Area	Grade	LOSS	HOSS
Reading	3	150	795
	4	180	940
	5	220	955
	6	260	970
	7	300	980
	8	330	990
	9	350	995
	10	370	999
Writing	3	150	680
	4	190	730
	5	220	780
	6	230	840
	7	240	890
	8	250	910
	9	260	930
	10	270	950
Mathematics	3	150	700
	4	180	780
	5	220	800
	6	240	830
	7	280	860
	8	310	890
	9	340	920
	10	370	950
Science	5	300	900
	8	300	900
	10	300	900
Reading Spanish	3	300	740
	4	300	790
Writing Spanish	3	250	750
	4	300	790

Table 11. Rater Reliability Statistics – Reading

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
3	4	3108	2	1.10	1.09	0.67	0.67	0.66	75.49	23.48	98.97
3	13	3093	3	1.35	1.35	0.92	0.92	0.72	72.59	24.56	97.15
3	16	3095	2	1.45	1.45	0.76	0.76	0.72	81.74	15.19	96.93
3	20	3128	3	1.22	1.22	0.87	0.88	0.69	65.32	32.21	97.53
3	23	3115	3	0.91	0.90	0.86	0.85	0.68	68.20	29.26	97.46
3	29	3108	2	1.29	1.29	0.70	0.70	0.72	79.86	19.21	99.07
3	30	3102	2	1.55	1.54	0.69	0.69	0.74	84.88	13.50	98.38
3	32	3099	3	1.27	1.29	0.85	0.85	0.69	71.16	26.52	97.68
4	5	3204	2	1.29	1.29	0.77	0.77	0.81	82.24	16.98	99.22
4	19	3058	2	0.55	0.55	0.76	0.76	0.76	87.82	11.53	99.35
4	21	3138	3	0.80	0.80	0.92	0.92	0.72	75.02	21.98	97.00
4	26	3098	3	1.57	1.56	1.17	1.17	0.77	73.91	23.66	97.57
4	28	3057	3	1.31	1.31	0.87	0.86	0.65	72.74	25.69	98.43
4	30	3010	2	1.12	1.11	0.70	0.70	0.60	78.40	19.39	97.79
4	35	3198	3	1.22	1.22	0.84	0.85	0.71	70.40	27.19	97.59
4	42	3186	3	1.72	1.72	0.91	0.91	0.75	69.38	29.49	98.87
4	45	3176	3	1.38	1.38	0.86	0.87	0.71	67.62	31.12	98.74
4	51	3151	2	0.78	0.77	0.66	0.66	0.60	70.85	28.29	99.14
4	103	3198	2	1.66	1.65	0.65	0.66	0.82	90.55	8.48	99.03
4	104	3198	3	2.52	2.52	0.84	0.84	0.84	87.10	11.93	99.03
4	114	3108	2	1.29	1.29	0.70	0.70	0.72	79.86	19.21	99.07
4	115	3102	2	1.55	1.54	0.69	0.69	0.74	84.88	13.50	98.38
5	5	3151	3	1.12	1.12	0.82	0.81	0.66	66.97	29.82	96.79
5	12	3112	3	1.15	1.15	1.00	0.99	0.60	58.07	32.70	90.77
5	16	3058	2	0.55	0.55	0.76	0.76	0.76	87.82	11.53	99.35
5	18	3138	3	0.80	0.80	0.92	0.92	0.72	75.02	21.98	97.00
5	25	3069	2	0.60	0.58	0.61	0.60	0.59	75.52	23.92	99.44
5	27	3027	2	0.77	0.77	0.69	0.69	0.67	79.39	19.95	99.34
5	29	3002	3	1.31	1.32	0.85	0.85	0.60	65.24	32.35	97.59
5	33	3147	3	1.50	1.48	0.81	0.81	0.72	69.78	29.20	98.98
5	39	3146	3	1.53	1.54	1.14	1.14	0.85	76.93	20.39	97.32
5	40	3139	3	1.26	1.27	0.91	0.92	0.65	61.48	33.42	94.90
5	47	3126	2	0.82	0.81	0.64	0.63	0.73	82.27	17.54	99.81
5	51	3104	2	0.89	0.90	0.74	0.74	0.69	75.31	23.31	98.62
5	96	3137	2	0.62	0.62	0.61	0.62	0.66	77.07	22.70	99.77
5	113	3151	2	0.78	0.77	0.66	0.66	0.60	70.85	28.29	99.14

Table 11. Rater Reliability Statistics – Reading (cont'd)

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
6	8	2986	2	0.53	0.53	0.67	0.66	0.81	93.35	6.55	99.90
6	12	3151	3	1.12	1.12	0.82	0.81	0.66	66.97	29.82	96.79
6	19	3069	2	0.60	0.58	0.61	0.60	0.59	75.52	23.92	99.44
6	21	3027	2	0.77	0.77	0.69	0.69	0.67	79.39	19.95	99.34
6	27	2944	3	1.01	1.03	0.80	0.80	0.57	63.90	33.75	97.65
6	29	2902	3	1.54	1.54	1.11	1.12	0.74	75.78	22.26	98.04
6	40	3036	2	0.61	0.60	0.65	0.66	0.54	69.10	28.76	97.86
6	45	3026	2	1.58	1.58	0.66	0.66	0.84	93.52	6.18	99.70
6	46	3015	3	0.87	0.86	0.77	0.77	0.61	69.12	28.09	97.21
6	49	2995	2	0.86	0.87	0.83	0.82	0.81	85.54	13.96	99.50
6	102	3041	3	1.36	1.35	0.82	0.82	0.69	70.89	27.63	98.52
6	105	3028	3	0.64	0.66	0.76	0.77	0.65	75.88	21.04	96.92
6	109	3009	2	0.73	0.74	0.80	0.80	0.69	73.54	24.07	97.61
6	110	3021	2	0.99	0.98	0.57	0.57	0.53	73.06	26.28	99.34
7	4	3090	3	1.27	1.26	0.71	0.70	0.55	62.93	35.16	98.09
7	12	3081	2	1.02	1.02	0.73	0.74	0.61	65.36	32.79	98.15
7	13	3082	2	1.42	1.42	0.82	0.83	0.88	92.15	6.78	98.93
7	24	3058	4	1.16	1.16	0.85	0.84	0.64	76.75	19.44	96.19
7	35	3028	3	0.64	0.66	0.76	0.77	0.65	75.88	21.04	96.92
7	40	3042	2	0.57	0.58	0.67	0.67	0.67	79.04	20.01	99.05
7	45	3024	2	1.54	1.54	0.73	0.72	0.63	76.10	20.75	96.85
7	48	2994	2	0.95	0.96	0.77	0.77	0.63	68.43	30.10	98.53
7	52	3033	3	0.91	0.91	0.87	0.88	0.62	65.07	31.33	96.40
7	105	2944	3	1.01	1.03	0.80	0.80	0.57	63.90	33.75	97.65
7	107	2902	3	1.54	1.54	1.11	1.12	0.74	75.78	22.26	98.04
7	108	3062	2	1.07	1.07	0.76	0.76	0.77	81.82	17.23	99.05
7	109	3064	2	0.92	0.92	0.73	0.73	0.75	80.40	19.14	99.54
7	115	3069	2	0.74	0.75	0.65	0.66	0.57	68.01	31.11	99.12
8	4	3090	3	1.27	1.26	0.71	0.70	0.55	62.93	35.16	98.09
8	10	3009	2	1.17	1.17	0.72	0.72	0.61	65.12	34.21	99.33
8	19	2911	2	1.35	1.34	0.71	0.71	0.63	76.91	21.27	98.18
8	20	2938	3	1.84	1.85	1.06	1.07	0.80	88.05	9.84	97.89
8	26	2863	3	1.59	1.60	0.90	0.92	0.62	67.72	30.15	97.87
8	30	2724	3	1.26	1.27	0.91	0.91	0.59	75.45	22.71	98.16
8	42	2862	2	0.88	0.87	0.94	0.94	0.81	91.21	7.88	99.09
8	45	2988	2	0.87	0.89	0.85	0.85	0.76	76.62	22.24	98.86
8	48	2939	3	1.68	1.69	0.92	0.93	0.69	69.00	30.04	99.04
8	50	2994	2	0.95	0.96	0.77	0.77	0.63	68.43	30.10	98.53
8	54	3033	3	0.91	0.91	0.87	0.88	0.62	65.07	31.33	96.40
8	100	2978	3	1.04	1.06	0.88	0.90	0.62	65.01	30.79	95.80
8	109	2952	2	0.76	0.78	0.82	0.83	0.75	80.26	18.58	98.84
8	110	2963	2	0.88	0.88	0.82	0.82	0.78	84.67	13.68	98.35

Table 11. Rater Reliability Statistics – Reading (cont'd)

			Max	Mean		SD		Weighted	Agreement		Exact +
Grade	Item	N	Score	Rater 1	Rater 2	Rater 1	Rater 2	Kappa	Exact	Adjacent	Adjacent
9	6	3013	3	1.13	1.14	0.78	0.77	0.67	78.06	20.74	98.80
9	10	2997	3	1.27	1.27	1.10	1.11	0.79	79.17	19.43	98.60
9	12	3039	3	1.62	1.60	1.12	1.12	0.84	83.28	15.20	98.48
9	17	2938	3	1.84	1.85	1.06	1.07	0.80	88.05	9.84	97.89
9	23	2863	3	1.59	1.60	0.90	0.92	0.62	67.72	30.15	97.87
9	26	3008	3	1.33	1.35	0.83	0.82	0.62	64.38	34.12	98.50
9	30	3006	3	2.05	2.06	1.03	1.03	0.75	75.41	22.46	97.87
9	41	2962	2	0.89	0.86	0.74	0.74	0.54	61.03	37.07	98.10
9	97	2957	3	2.23	2.21	0.93	0.93	0.67	72.62	25.01	97.63
9	100	3024	3	1.77	1.78	0.82	0.82	0.67	71.50	27.70	99.20
9	102	2951	3	1.63	1.62	0.95	0.92	0.60	60.16	35.80	95.96
9	105	2983	2	0.70	0.71	0.67	0.67	0.59	72.53	26.16	98.69
9	109	2963	2	0.88	0.88	0.82	0.82	0.78	84.67	13.68	98.35
9	115	2973	3	1.49	1.50	0.98	0.99	0.61	66.52	24.83	91.35
10	7	2687	3	1.09	1.09	0.87	0.86	0.56	64.18	32.31	96.49
10	12	2756	3	1.23	1.24	0.86	0.85	0.62	72.77	25.01	97.78
10	15	3013	3	1.13	1.14	0.78	0.77	0.67	78.06	20.74	98.80
10	27	2782	3	1.55	1.56	1.06	1.06	0.69	71.74	23.36	95.10
10	30	2804	3	1.68	1.69	0.84	0.84	0.72	83.15	16.28	99.43
10	31	2780	3	1.52	1.55	0.87	0.88	0.61	65.35	31.95	97.30
10	35	2789	3	1.56	1.57	0.97	0.98	0.70	72.07	25.67	97.74
10	38	2703	3	0.83	0.84	0.85	0.85	0.64	80.69	17.87	98.56
10	43	2727	2	1.07	1.07	0.74	0.74	0.78	96.40	3.45	99.85
10	49	2628	2	0.86	0.86	0.82	0.81	0.61	73.14	24.46	97.60
10	51	2611	3	2.26	2.26	1.01	1.00	0.67	85.72	13.59	99.31
10	102	2951	3	1.63	1.62	0.95	0.92	0.60	60.16	35.80	95.96
10	106	2983	2	0.70	0.71	0.67	0.67	0.59	72.53	26.16	98.69
10	109	2727	3	1.28	1.28	0.80	0.79	0.54	60.40	38.02	98.42

Table 12. Rater Reliability Statistics – Writing

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Agreement Adjacent	Exact + Adjacent
3	1A	3141	1	0.83	0.83	0.37	0.37	0.96	99.20	0.80	100.00
3	1B	3142	1	0.75	0.75	0.43	0.44	0.97	99.17	0.83	100.00
3	1C	3142	1	0.77	0.77	0.42	0.42	0.94	98.12	1.88	100.00
3	1D	3142	1	0.63	0.62	0.48	0.48	0.94	97.74	2.26	100.00
3	1E	3142	1	0.73	0.73	0.44	0.44	0.96	98.85	1.15	100.00
3	1F	3142	1	0.71	0.71	0.45	0.45	0.94	98.02	1.98	100.00
3	10A	3111	2	1.34	1.33	0.48	0.49	0.44	74.23	25.68	99.91
3	10B	3111	1	0.99	0.99	0.09	0.10	0.37	98.68	1.32	100.00
3	10C	3111	1	0.82	0.82	0.39	0.38	0.55	87.07	12.93	100.00
3	10D	3111	1	0.93	0.93	0.25	0.25	0.35	91.80	8.20	100.00
3	28A	3123	2	1.29	1.29	0.46	0.46	0.41	74.77	25.23	100.00
3	28B	3123	1	1.00	0.99	0.06	0.07	0.45	99.52	0.48	100.00
3	28C	3122	1	0.83	0.84	0.37	0.37	0.62	89.93	10.07	100.00
3	28D	3122	1	0.91	0.91	0.29	0.29	0.49	91.79	8.21	100.00
3	39A	3112	2	1.27	1.27	0.46	0.46	0.43	76.54	23.46	100.00
3	39B	3112	1	0.99	0.99	0.08	0.08	0.48	99.42	0.58	100.00
3	39C	3112	1	0.76	0.75	0.43	0.43	0.63	86.90	13.10	100.00
3	39D	3112	1	0.89	0.87	0.32	0.33	0.53	90.38	9.62	100.00
4	1	3229	1	0.98	0.98	0.12	0.12	0.91	99.72	0.28	100.00
4	2A	3217	1	0.59	0.59	0.49	0.49	0.95	98.01	1.99	100.00
4	2B	3217	1	0.79	0.79	0.41	0.41	0.91	97.33	2.67	100.00
4	2C	3215	1	0.51	0.50	0.50	0.50	0.93	96.83	3.17	100.00
4	2D	3217	1	0.65	0.65	0.48	0.48	0.97	98.79	1.21	100.00
4	2E	3217	1	0.45	0.44	0.50	0.50	0.97	98.73	1.27	100.00
4	2F	3217	1	0.93	0.93	0.25	0.25	0.74	97.01	2.99	100.00
4	3A	3209	4	2.66	2.65	0.87	0.87	0.64	59.21	37.92	97.13
4	3B	3209	4	2.63	2.63	0.83	0.84	0.61	57.72	39.51	97.23
4	3C	3209	2	1.87	1.86	0.38	0.40	0.56	88.18	11.51	99.69
4	77	3170	4	2.59	2.61	0.83	0.84	0.67	68.52	30.75	99.27
4	95	3086	4	2.20	2.21	0.84	0.83	0.56	62.52	34.44	96.96
4	116	3196	4	2.47	2.46	0.74	0.74	0.65	69.62	29.94	99.56
5	1	3172	1	0.99	0.99	0.10	0.10	0.84	99.68	0.32	100.00
5	2A	3162	1	0.53	0.53	0.50	0.50	0.89	94.88	5.12	100.00
5	2B	3163	1	0.66	0.67	0.47	0.47	0.92	96.65	3.35	100.00
5	2C	3163	1	0.71	0.71	0.45	0.45	0.95	98.26	1.74	100.00
5	2D	3162	1	0.47	0.47	0.50	0.50	0.93	96.68	3.32	100.00
5	2E	3163	1	0.86	0.86	0.35	0.35	0.95	99.15	0.85	100.00
5	2F	3163	1	0.69	0.69	0.46	0.46	0.92	96.90	3.10	100.00
5	3A	3165	4	3.10	3.09	0.76	0.74	0.63	63.00	35.92	98.92
5	3B	3165	4	3.04	3.01	0.80	0.80	0.64	60.09	38.29	98.38
5	3C	3165	2	1.91	1.91	0.32	0.32	0.53	91.06	8.69	99.75
5	74	3144	4	2.64	2.63	0.79	0.80	0.68	67.24	32.00	99.24
5	93	3056	4	2.62	2.63	0.77	0.79	0.59	69.12	30.25	99.37
5	116	3196	4	2.47	2.46	0.74	0.74	0.65	69.62	29.94	99.56

Table 12. Rater Reliability Statistics – Writing (cont'd)

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
6	1	3090	1	0.99	0.99	0.10	0.10	0.97	99.94	0.06	100.00
6	2A	3070	1	0.97	0.97	0.17	0.17	0.66	98.34	1.66	100.00
6	2B	3069	1	0.75	0.75	0.43	0.43	0.95	98.73	1.27	100.00
6	2C	3068	1	0.81	0.81	0.39	0.39	0.90	97.69	2.31	100.00
6	2D	3067	1	0.40	0.40	0.49	0.49	0.93	97.36	2.64	100.00
6	2E	3070	1	0.64	0.64	0.48	0.48	0.97	99.19	0.81	100.00
6	2F	3069	1	0.09	0.08	0.28	0.28	0.88	98.76	1.24	100.00
6	3A	3073	4	2.95	2.95	0.80	0.79	0.64	63.09	35.42	98.51
6	3B	3073	4	2.88	2.89	0.80	0.80	0.63	60.81	37.34	98.15
6	3C	3073	2	1.93	1.94	0.27	0.27	0.46	92.45	7.42	99.87
6	71	3041	4	2.66	2.66	0.75	0.75	0.60	64.35	34.56	98.91
6	97	3056	4	2.62	2.63	0.77	0.79	0.59	69.12	30.25	99.37
6	116	3031	4	2.72	2.72	0.91	0.91	0.69	66.62	32.06	98.68
7	1	3134	1	0.99	0.99	0.12	0.12	0.97	99.90	0.10	100.00
7	2A	3113	1	0.66	0.66	0.47	0.47	0.92	96.92	3.08	100.00
7	2B	3113	1	0.44	0.44	0.50	0.50	0.95	98.07	1.93	100.00
7	2C	3113	1	0.36	0.36	0.48	0.48	0.94	97.94	2.06	100.00
7	2D	3114	1	0.02	0.02	0.15	0.15	0.82	99.58	0.42	100.00
7	2E	3113	1	0.61	0.61	0.49	0.49	0.91	96.50	3.50	100.00
7	2F	3113	1	0.63	0.63	0.48	0.48	0.96	98.59	1.41	100.00
7	3A	3112	4	2.25	2.26	1.09	1.09	0.74	60.86	34.96	95.82
7	3B	3112	4	2.50	2.50	0.80	0.79	0.58	59.70	36.95	96.65
7	3C	3112	2	1.90	1.92	0.32	0.30	0.48	90.65	9.22	99.87
7	74	3088	4	2.74	2.73	0.80	0.77	0.68	70.89	28.79	99.68
7	94	3041	4	2.66	2.66	0.75	0.75	0.60	64.35	34.56	98.91
7	116	3073	4	2.58	2.59	0.80	0.80	0.58	59.58	38.17	97.75
8	1	3076	1	0.99	0.99	0.12	0.12	0.98	99.93	0.07	100.00
8	2A	3047	1	0.91	0.91	0.29	0.29	0.81	97.44	2.56	100.00
8	2B	3047	1	0.63	0.63	0.48	0.48	0.94	97.87	2.13	100.00
8	2C	3047	1	0.46	0.46	0.50	0.50	0.87	94.49	5.51	100.00
8	2D	3047	1	0.71	0.71	0.45	0.45	0.94	98.39	1.61	100.00
8	2E	3047	1	0.29	0.29	0.45	0.46	0.94	98.52	1.48	100.00
8	2F	3047	1	0.48	0.48	0.50	0.50	0.95	98.46	1.54	100.00
8	3A	3048	4	2.65	2.65	0.81	0.81	0.61	61.71	35.70	97.41
8	3B	3048	4	2.65	2.65	0.79	0.80	0.59	59.97	37.27	97.24
8	3C	3049	2	1.93	1.93	0.27	0.27	0.43	91.67	8.27	99.94
8	72	3020	4	2.57	2.58	0.73	0.72	0.57	63.21	35.89	99.10
8	96	2941	4	2.51	2.48	0.88	0.87	0.63	68.71	30.98	99.69
8	116	3073	4	2.58	2.59	0.80	0.80	0.58	59.58	38.17	97.75

Table 12. Rater Reliability Statistics – Writing (cont'd)

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
9	1	3123	1	0.97	0.97	0.16	0.16	0.96	99.81	0.19	100.00
9	2A	3086	1	0.78	0.78	0.41	0.42	0.80	93.90	6.10	100.00
9	2B	3086	1	0.63	0.63	0.48	0.48	0.92	97.37	2.63	100.00
9	2C	3086	1	0.88	0.89	0.33	0.32	0.78	96.14	3.86	100.00
9	2D	3086	1	0.18	0.18	0.39	0.39	0.87	97.18	2.82	100.00
9	2E	3086	1	0.64	0.64	0.48	0.48	0.94	98.31	1.69	100.00
9	2F	3086	1	0.53	0.53	0.50	0.50	0.95	98.61	1.39	100.00
9	3A	3083	4	2.81	2.81	0.80	0.79	0.60	60.56	37.37	97.93
9	3B	3083	4	2.80	2.79	0.78	0.77	0.56	58.06	39.25	97.31
9	3C	3084	2	1.96	1.96	0.21	0.21	0.46	95.56	4.31	99.87
9	76	3020	4	2.57	2.58	0.73	0.72	0.57	63.21	35.89	99.10
9	96	2968	4	2.44	2.45	0.83	0.82	0.59	69.50	29.89	99.39
9	116	2910	4	2.39	2.38	0.76	0.77	0.56	72.91	26.71	99.62
10	1	2933	1	0.97	0.97	0.16	0.16	0.97	99.83	0.17	100.00
10	2A	2882	1	0.67	0.67	0.47	0.47	0.94	98.96	1.04	100.00
10	2B	2882	1	0.71	0.71	0.46	0.46	0.88	96.36	3.64	100.00
10	2C	2882	1	0.75	0.75	0.43	0.43	0.91	98.23	1.77	100.00
10	2D	2881	1	0.82	0.82	0.38	0.38	0.82	96.04	3.96	100.00
10	2E	2881	1	0.40	0.40	0.49	0.49	0.92	97.57	2.43	100.00
10	2F	2882	1	0.83	0.83	0.38	0.38	0.90	98.54	1.46	100.00
10	3A	2882	4	3.00	3.00	0.80	0.80	0.62	62.30	36.72	99.02
10	3B	2880	4	3.01	3.00	0.78	0.78	0.60	61.84	37.05	98.89
10	3C	2881	2	1.97	1.98	0.18	0.16	0.49	97.22	2.74	99.96
10	71	2910	4	2.39	2.38	0.76	0.77	0.56	72.91	26.71	99.62
10	95	2746	4	2.46	2.46	0.77	0.77	0.56	70.32	29.28	99.60
10	116	2805	4	2.68	2.66	0.82	0.81	0.62	72.19	27.56	99.75

Table 13. Rater Reliability Statistics – Mathematics

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
3	6	3169	2	1.00	1.01	0.62	0.62	0.85	89.21	10.70	99.91
3	11	3166	2	0.88	0.88	0.95	0.94	0.93	92.77	6.03	98.80
3	16	3160	2	1.06	1.05	0.84	0.84	0.89	88.70	10.51	99.21
3	20	3164	3	1.27	1.26	1.04	1.04	0.95	94.15	5.56	99.71
3	26	3141	2	0.22	0.22	0.45	0.45	0.76	93.94	5.93	99.87
3	30	3113	2	1.09	1.09	0.94	0.94	0.92	95.37	3.89	99.26
3	35	3165	2	1.19	1.19	0.91	0.91	0.94	92.83	6.92	99.75
3	40	3164	3	1.97	1.97	0.94	0.94	0.87	82.59	16.31	98.90
4	8	3167	2	1.17	1.18	0.78	0.79	0.80	92.65	7.26	99.91
4	11	3331	3	2.72	2.72	0.59	0.58	0.85	93.34	6.30	99.64
4	17	3295	2	0.86	0.86	0.78	0.78	0.89	92.55	7.36	99.91
4	20	3310	3	1.46	1.46	1.14	1.12	0.78	71.77	21.83	93.60
4	23	3325	4	2.02	2.03	1.18	1.19	0.93	90.32	9.02	99.34
4	28	3141	2	0.22	0.22	0.45	0.45	0.76	93.94	5.93	99.87
4	30	3321	3	1.12	1.12	0.94	0.94	0.87	83.74	15.84	99.58
4	34	3165	2	1.19	1.19	0.91	0.91	0.94	92.83	6.92	99.75
4	40	3164	3	1.27	1.26	1.04	1.04	0.95	94.15	5.56	99.71
4	46	3319	4	2.77	2.78	1.49	1.49	0.92	86.11	10.00	96.11
4	51	3322	2	0.53	0.53	0.77	0.77	0.95	96.24	3.67	99.91
4	55	3321	3	1.97	1.97	1.01	1.02	0.84	77.46	20.86	98.32
4	60	3330	2	1.19	1.19	0.83	0.83	0.93	91.71	8.20	99.91
4	64	3318	3	1.55	1.55	1.21	1.21	0.91	85.14	12.87	98.01
4	69	3325	4	2.23	2.23	1.45	1.44	0.95	91.67	7.28	98.95
5	4	3122	2	1.38	1.38	0.67	0.66	0.91	93.91	5.99	99.90
5	8	3108	3	1.50	1.51	0.80	0.81	0.87	89.99	9.59	99.58
5	14	3081	2	1.08	1.06	0.89	0.89	0.90	91.07	8.54	99.61
5	18	3310	3	1.46	1.46	1.14	1.12	0.78	71.77	21.83	93.60
5	23	3104	4	2.21	2.21	1.40	1.41	0.94	91.01	8.51	99.52
5	28	3117	2	1.10	1.10	0.80	0.80	0.95	96.15	3.69	99.84
5	30	3321	3	1.12	1.12	0.94	0.94	0.87	83.74	15.84	99.58
5	39	3109	2	0.54	0.54	0.79	0.79	0.93	94.05	5.79	99.84
5	43	3117	3	2.04	2.03	0.93	0.93	0.90	87.07	12.61	99.68
5	46	3120	4	2.85	2.85	1.21	1.22	0.92	83.59	15.74	99.33
5	52	3112	2	1.10	1.10	0.73	0.72	0.94	96.69	3.28	99.97
5	55	3114	3	1.84	1.85	0.96	0.97	0.91	87.86	11.88	99.74
5	59	3094	2	1.03	1.03	0.93	0.93	0.92	92.08	7.76	99.84
5	64	3321	3	1.97	1.97	1.01	1.02	0.84	77.46	20.86	98.32
5	69	3114	4	2.34	2.33	1.05	1.05	0.73	60.62	34.98	95.60

Table 13. Rater Reliability Statistics – Mathematics (cont'd)

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
6	4	3081	2	1.08	1.06	0.89	0.89	0.90	91.07	8.54	99.61
6	6	3108	3	1.50	1.51	0.80	0.81	0.87	89.99	9.59	99.58
6	12	3074	3	1.49	1.49	1.00	1.00	0.85	85.73	13.84	99.57
6	16	3110	2	1.00	1.00	0.72	0.72	0.86	88.93	10.91	99.84
6	20	3126	4	2.46	2.44	1.10	1.09	0.88	78.37	21.12	99.49
6	24	3117	2	1.47	1.47	0.80	0.80	0.93	93.74	6.19	99.93
6	28	3117	3	2.04	2.03	0.93	0.93	0.90	87.07	12.61	99.68
6	30	3111	3	1.60	1.61	1.04	1.04	0.88	83.80	15.08	98.88
6	37	3126	2	1.66	1.66	0.61	0.61	0.88	93.35	6.33	99.68
6	40	3122	4	1.36	1.37	1.16	1.15	0.76	67.34	25.80	93.14
6	45	3124	2	0.65	0.65	0.80	0.80	0.92	93.47	6.12	99.59
6	47	3117	2	1.24	1.23	0.87	0.87	0.79	80.00	16.57	96.57
6	51	3118	3	1.75	1.75	1.01	1.00	0.88	83.15	16.08	99.23
6	56	3121	3	1.63	1.64	1.20	1.20	0.92	88.30	10.06	98.36
6	60	3124	4	2.41	2.41	1.23	1.23	0.94	91.29	8.13	99.42
7	3	3077	2	0.80	0.81	0.96	0.96	0.93	93.83	4.81	98.64
7	6	3084	3	2.01	2.01	0.89	0.89	0.92	91.93	7.68	99.61
7	10	3035	2	0.49	0.49	0.68	0.69	0.84	92.55	6.82	99.37
7	14	3078	3	1.55	1.55	1.16	1.17	0.89	79.56	18.75	98.31
7	20	3002	4	1.18	1.18	1.21	1.21	0.81	84.20	14.67	98.87
7	23	3075	2	1.49	1.49	0.86	0.86	0.95	97.66	1.73	99.39
7	26	3118	3	1.75	1.75	1.01	1.00	0.88	83.15	16.08	99.23
7	30	3030	2	0.75	0.76	0.94	0.94	0.90	93.39	5.59	98.98
7	35	3057	3	1.03	1.04	0.87	0.86	0.79	77.53	21.82	99.35
7	40	3066	4	1.77	1.76	1.47	1.47	0.87	74.79	19.63	94.42
7	43	3124	2	0.65	0.65	0.80	0.80	0.92	93.47	6.12	99.59
7	46	3121	3	1.63	1.64	1.20	1.20	0.92	88.30	10.06	98.36
7	50	3062	2	1.19	1.19	0.65	0.65	0.84	89.97	9.96	99.93
7	54	3059	3	1.08	1.09	0.88	0.88	0.79	78.53	20.39	98.92
7	60	3035	4	1.53	1.54	1.17	1.17	0.84	83.72	14.93	98.65
8	4	3077	2	0.80	0.81	0.96	0.96	0.93	93.83	4.81	98.64
8	7	3034	3	1.59	1.59	0.87	0.88	0.77	75.44	23.24	98.68
8	10	2973	2	1.21	1.21	0.85	0.85	0.70	73.91	22.58	96.49
8	14	3032	3	1.51	1.52	0.98	0.98	0.87	86.44	12.96	99.40
8	20	2983	4	1.33	1.33	1.37	1.36	0.83	78.10	19.75	97.85
8	24	3048	2	0.75	0.75	0.74	0.73	0.94	96.72	3.25	99.97
8	28	3022	3	1.30	1.30	1.05	1.04	0.81	75.74	21.95	97.69
8	32	3036	2	0.93	0.94	0.69	0.69	0.87	92.13	7.78	99.91
8	36	3026	3	0.99	1.00	1.03	1.03	0.82	76.79	21.22	98.01
8	40	3066	4	1.77	1.76	1.47	1.47	0.87	74.79	19.63	94.42
8	44	3030	2	0.75	0.76	0.94	0.94	0.90	93.39	5.59	98.98
8	47	3031	3	1.74	1.74	0.97	0.97	0.88	89.05	10.46	99.51
8	50	3021	2	0.43	0.44	0.69	0.69	0.84	91.32	8.15	99.47
8	55	3026	3	1.29	1.28	0.81	0.80	0.77	81.43	17.51	98.94
8	60	3039	4	2.02	2.01	1.04	1.06	0.85	82.07	17.41	99.48

Table 13. Rater Reliability Statistics – Mathematics (cont'd)

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
9	4	2944	2	0.19	0.19	0.45	0.45	0.61	91.91	7.27	99.18
9	8	2981	3	1.32	1.33	1.28	1.29	0.86	86.95	10.50	97.45
9	11	3016	2	0.92	0.91	0.81	0.82	0.75	75.30	23.84	99.14
9	14	2929	3	0.42	0.42	0.83	0.83	0.70	86.70	11.90	98.60
9	20	3014	4	1.91	1.92	1.14	1.15	0.71	60.67	33.89	94.56
9	22	2969	2	0.56	0.54	0.77	0.76	0.78	85.82	13.34	99.16
9	25	3032	3	1.51	1.52	0.98	0.98	0.87	86.44	12.96	99.40
9	29	2712	2	0.32	0.32	0.54	0.54	0.50	79.63	20.33	99.96
9	36	3026	3	0.99	1.00	1.03	1.03	0.82	76.79	21.22	98.01
9	40	3001	4	0.73	0.73	1.27	1.26	0.84	85.73	13.14	98.87
9	44	3015	2	0.85	0.85	0.77	0.77	0.85	88.99	10.85	99.84
9	47	2952	3	0.91	0.91	1.09	1.09	0.83	91.18	8.04	99.22
9	51	2998	2	1.41	1.40	0.78	0.78	0.80	85.71	13.39	99.10
9	54	2985	3	0.83	0.83	0.98	0.98	0.83	89.23	10.43	99.66
9	60	2959	4	1.53	1.53	1.40	1.41	0.81	83.60	12.95	96.55
10	2	2841	2	0.61	0.61	0.64	0.64	0.73	88.16	11.38	99.54
10	8	2929	3	0.42	0.42	0.83	0.83	0.70	86.70	11.90	98.60
10	13	2826	2	0.95	0.96	0.82	0.82	0.84	93.90	6.03	99.93
10	17	2818	3	0.49	0.47	0.82	0.81	0.74	92.69	6.43	99.12
10	20	3014	4	1.91	1.92	1.14	1.15	0.71	60.67	33.89	94.56
10	23	2856	2	0.72	0.73	0.87	0.87	0.84	88.83	10.54	99.37
10	27	2899	2	1.08	1.08	0.58	0.59	0.51	70.03	29.21	99.24
10	32	2873	3	0.76	0.75	1.08	1.08	0.85	90.53	7.55	98.08
10	35	2889	3	1.74	1.74	1.04	1.03	0.83	80.71	18.70	99.41
10	40	2856	4	0.91	0.93	1.04	1.04	0.70	73.50	24.25	97.75
10	43	2813	2	0.62	0.62	0.88	0.88	0.86	96.19	3.39	99.58
10	48	2831	3	0.73	0.74	0.89	0.91	0.76	86.57	12.94	99.51
10	53	2757	2	0.69	0.68	0.92	0.91	0.82	94.55	4.72	99.27
10	57	2800	3	1.08	1.09	1.17	1.17	0.80	86.31	12.69	99.00
10	60	2812	4	1.31	1.31	1.30	1.30	0.76	74.32	24.22	98.54

Table 14. Rater Reliability Statistics – Science

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
5	7	3100	1	0.25	0.26	0.43	0.44	0.72	91.21	8.79	100.00
5	21	3138	1	0.37	0.37	0.48	0.48	0.91	96.52	3.48	100.00
5	22	3132	1	0.59	0.58	0.49	0.49	0.93	97.54	2.46	100.00
5	23	3136	2	0.86	0.85	0.78	0.78	0.69	73.56	23.72	97.28
5	24	3134	1	0.38	0.38	0.49	0.49	0.70	86.67	13.33	100.00
5	25	3128	2	1.35	1.37	0.85	0.84	0.79	84.28	12.26	96.54
5	31	3134	2	1.18	1.19	0.78	0.77	0.76	76.88	22.09	98.97
5	33	3146	1	0.59	0.58	0.49	0.49	0.60	80.90	19.10	100.00
5	38	3097	2	0.68	0.69	0.68	0.67	0.67	78.27	20.43	98.70
5	42	3095	2	0.20	0.22	0.44	0.45	0.53	84.87	14.48	99.35
5	45	3144	2	0.97	0.97	0.74	0.74	0.92	94.27	5.63	99.90
5	48	3101	2	0.32	0.30	0.62	0.61	0.75	87.90	11.36	99.26
5	57	3109	2	0.62	0.63	0.87	0.87	0.81	88.60	7.73	96.33
5	61	3134	2	1.15	1.14	0.78	0.79	0.75	77.50	20.75	98.25
5	64	3112	2	1.05	1.06	0.94	0.94	0.87	88.82	9.57	98.39
5	68	3138	2	1.17	1.18	0.79	0.79	0.75	75.27	23.17	98.44
5	73	3116	2	0.88	0.88	0.85	0.85	0.84	84.68	14.32	99.00
5	75	3121	2	1.38	1.38	0.80	0.79	0.70	76.21	20.23	96.44
8	12	3031	2	1.01	1.02	0.84	0.85	0.72	72.30	24.69	96.99
8	19	3038	2	1.12	1.11	0.82	0.82	0.79	79.93	18.66	98.59
8	20	3031	1	0.59	0.59	0.49	0.49	0.77	90.06	9.94	100.00
8	21	3034	1	0.81	0.81	0.39	0.39	0.66	90.47	9.53	100.00
8	22	3049	4	2.54	2.53	1.26	1.26	0.86	78.08	19.46	97.54
8	23	3021	1	0.76	0.75	0.43	0.43	0.78	93.25	6.75	100.00
8	24	3014	1	0.27	0.26	0.44	0.44	0.82	94.75	5.25	100.00
8	25	2991	1	0.35	0.36	0.48	0.48	0.80	92.81	7.19	100.00
8	30	2991	2	0.89	0.89	0.78	0.78	0.88	95.84	4.05	99.89
8	33	2993	1	0.20	0.21	0.40	0.41	0.72	92.41	7.59	100.00
8	35	3050	1	0.56	0.55	0.50	0.50	0.64	82.74	17.26	100.00
8	40	2978	2	0.12	0.13	0.35	0.36	0.47	88.43	11.10	99.53
8	43	3035	2	0.60	0.60	0.72	0.71	0.87	92.32	7.55	99.87
8	48	3032	2	0.72	0.73	0.58	0.59	0.65	81.22	18.09	99.31
8	53	3003	2	0.69	0.67	0.78	0.77	0.73	78.23	20.47	98.70
8	61	3042	2	0.81	0.79	0.67	0.66	0.68	77.57	21.37	98.94
8	64	3037	2	0.63	0.64	0.59	0.58	0.75	87.14	12.80	99.94
8	67	3037	2	0.89	0.90	0.76	0.77	0.76	78.33	20.65	98.98
8	72	2958	2	0.44	0.44	0.62	0.62	0.68	85.33	14.16	99.49
8	75	3047	2	0.79	0.79	0.77	0.76	0.84	85.75	13.89	99.64
8	78	3043	2	1.09	1.09	0.76	0.76	0.74	76.00	23.01	99.01
8	81	2915	2	0.72	0.72	0.76	0.77	0.64	72.56	25.97	98.53
8	83	3006	1	0.02	0.01	0.13	0.12	0.51	98.73	1.27	100.00

Table 14. Rater Reliability Statistics – Science (cont'd)

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
10	14	2248	2	0.20	0.20	0.45	0.44	0.47	96.86	3.09	99.95
10	20	2277	2	0.16	0.15	0.38	0.37	0.42	89.36	10.55	99.91
10	22	2838	4	2.45	2.46	1.44	1.44	0.80	72.51	22.59	95.10
10	23	2795	2	1.12	1.12	0.87	0.87	0.86	96.53	3.08	99.61
10	24	2732	2	0.94	0.95	0.76	0.76	0.75	90.11	9.75	99.86
10	25	2768	1	0.35	0.36	0.48	0.48	0.71	90.48	9.52	100.00
10	26	2754	1	0.38	0.38	0.49	0.48	0.59	83.92	16.08	100.00
10	27	2799	1	0.30	0.30	0.46	0.46	0.60	85.79	14.21	100.00
10	30	2817	1	0.22	0.22	0.42	0.42	0.73	93.60	6.40	100.00
10	34	2812	2	0.94	0.95	0.82	0.83	0.81	90.61	9.07	99.68
10	36	2829	2	0.72	0.72	0.61	0.63	0.73	89.43	10.25	99.68
10	37	2711	2	0.49	0.50	0.60	0.60	0.67	92.46	7.39	99.85
10	42	2802	1	0.28	0.29	0.45	0.45	0.75	93.24	6.76	100.00
10	43	2782	2	0.54	0.53	0.60	0.60	0.61	81.65	17.99	99.64
10	52	2747	2	0.57	0.57	0.70	0.69	0.64	80.12	19.11	99.23
10	57	2742	2	0.61	0.61	0.59	0.60	0.57	79.66	19.72	99.38
10	65	2770	1	0.16	0.17	0.37	0.37	0.67	93.93	6.07	100.00
10	67	2793	2	0.73	0.73	0.76	0.76	0.75	85.91	13.80	99.71
10	69	2734	2	0.75	0.76	0.73	0.73	0.66	80.65	18.80	99.45
10	72	2639	2	0.54	0.53	0.79	0.79	0.74	95.70	4.14	99.84
10	74	2709	1	0.14	0.15	0.35	0.35	0.67	96.19	3.81	100.00
10	75	2810	2	1.62	1.62	0.67	0.67	0.72	88.35	10.83	99.18
10	78	2784	1	0.46	0.47	0.50	0.50	0.64	85.30	14.70	100.00

Table 15. Rater Reliability Statistics – Spanish Reading

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	1	231	3	1.87	1.87	1.19	1.18	0.97	95.65	3.91	99.56
3	2	229	3	2.14	2.14	1.22	1.23	0.97	97.38	2.62	100.00
3	8	229	2	1.29	1.29	0.79	0.81	0.92	93.45	6.55	100.00
3	17	226	3	1.89	1.94	0.96	0.91	0.69	69.47	27.88	97.35
3	25	230	2	1.52	1.52	0.71	0.73	0.87	90.43	8.70	99.13
3	26	230	2	1.08	1.06	0.95	0.95	0.89	86.09	12.61	98.70
3	32	230	3	1.18	1.15	0.98	0.97	0.94	93.91	5.65	99.56
3	36	230	2	1.17	1.10	0.81	0.83	0.73	72.17	25.22	97.39
4	13	17	3	0.82	0.82	1.01	1.01	1.00	100.00	0.00	100.00
4	14	16	2	0.88	0.94	0.72	0.77	0.79	93.75	6.25	100.00
4	29	17	3	2.06	2.12	1.14	1.05	0.97	94.12	5.88	100.00
4	31	17	2	0.35	0.35	0.70	0.70	1.00	100.00	0.00	100.00
4	33	17	3	1.12	1.06	0.78	0.83	0.86	82.35	17.65	100.00
4	34	17	3	1.18	1.18	0.95	0.95	1.00	100.00	0.00	100.00
4	42	17	2	0.29	0.35	0.59	0.70	0.93	94.12	5.88	100.00
4	44	16	2	0.75	0.94	0.86	0.85	0.69	68.75	31.25	100.00
4	45	15	3	0.40	0.53	0.63	0.74	0.56	86.67	13.33	100.00
4	97	17	2	0.76	0.76	0.75	0.66	0.88	88.24	11.76	100.00
4	98	17	3	0.65	0.71	0.86	0.77	0.86	82.35	17.65	100.00
4	100	17	2	0.35	0.35	0.49	0.49	1.00	100.00	0.00	100.00
4	108	17	2	1.12	1.12	0.93	0.93	0.93	88.24	11.76	100.00
4	116	17	3	1.65	1.71	0.86	0.85	0.96	94.12	5.88	100.00

Table 16. Rater Reliability Statistics – Spanish Writing

Grade	Item	N	Max Score	Mean Rater 1	Mean Rater 2	SD Rater 1	SD Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
3	4A	224	1	0.87	0.86	0.34	0.35	0.89	98.21	1.79	100.00
3	4B	224	1	0.25	0.24	0.44	0.43	0.92	97.77	2.23	100.00
3	4C	224	1	0.69	0.68	0.46	0.47	0.92	97.32	2.68	100.00
3	4D	224	1	0.63	0.63	0.48	0.49	0.94	98.21	1.79	100.00
3	4E	224	1	0.53	0.51	0.50	0.50	0.93	97.32	2.68	100.00
3	4F	224	1	0.78	0.77	0.42	0.42	0.85	95.54	4.46	100.00
3	16A	224	2	1.19	1.25	0.63	0.65	0.55	67.86	30.80	98.66
3	16B	224	1	0.81	0.79	0.39	0.40	0.46	83.04	16.96	100.00
3	16C	224	1	0.75	0.73	0.44	0.44	0.57	83.48	16.52	100.00
3	16D	224	1	0.84	0.86	0.36	0.35	0.55	88.84	11.16	100.00
3	27A	226	2	1.01	1.08	0.68	0.69	0.75	82.22	16.44	98.66
3	27B	226	1	0.65	0.66	0.48	0.47	0.59	81.78	18.22	100.00
3	27C	226	1	0.68	0.71	0.47	0.46	0.78	91.11	8.89	100.00
3	27D	226	1	0.76	0.78	0.43	0.41	0.80	93.33	6.67	100.00
3	39A	226	2	1.12	1.24	0.76	0.72	0.69	70.35	28.32	98.67
3	39B	226	1	0.64	0.69	0.48	0.47	0.55	79.65	20.35	100.00
3	39C	226	1	0.63	0.69	0.48	0.46	0.68	85.84	14.16	100.00
3	39D	226	1	0.78	0.83	0.41	0.37	0.67	89.82	10.18	100.00
4	1	17	1	0.94	0.94	0.24	0.24	1.00	100.00	0.00	100.00
4	2A	17	1	0.82	0.82	0.39	0.39	1.00	100.00	0.00	100.00
4	2B	17	1	0.47	0.47	0.51	0.51	1.00	100.00	0.00	100.00
4	2C	17	1	0.59	0.59	0.51	0.51	1.00	100.00	0.00	100.00
4	2D	17	1	0.82	0.82	0.39	0.39	1.00	100.00	0.00	100.00
4	2E	17	1	0.35	0.35	0.49	0.49	1.00	100.00	0.00	100.00
4	2F	17	1	0.00	0.00	0.00	0.00	.	100.00	0.00	100.00
4	3A	17	4	1.53	1.71	0.87	0.92	0.89	82.35	17.65	100.00
4	3B	17	4	1.65	1.71	0.49	0.47	0.87	94.12	5.88	100.00
4	3C	17	2	1.41	1.35	0.71	0.61	0.64	70.59	29.41	100.00
4	25	16	4	1.75	1.63	1.18	1.02	0.73	87.50	12.50	100.00
4	63	17	4	1.71	1.82	1.05	1.19	0.90	76.47	23.53	100.00
4	90	16	4	1.63	1.63	0.89	1.02	0.61	81.25	12.50	93.75

Table 17. Rater Severity/Leniency Study Results

Content Area	Grade	2011/2012 Item Number	2013 Item Number	Valid N	Mean 2011/2012	Mean 2013	Mean Difference	STD 2011/2012	STD 2013	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Wtd Kappa
Reading	3	16	16	983	1.38	1.35	0.03	0.78	0.80	15.26	80.87	3.87	0.75	0.88	0.75
Reading	**3**	**32**	**32**	**983**	**1.31**	**1.25**	**0.06**	**0.82**	**0.82**	**25.43**	**73.35**	**1.22**	**0.77**	**0.89**	**0.77**
Reading	**4**	**25**	**28**	**953**	**1.32**	**1.38**	**-0.06**	**0.87**	**0.91**	**27.60**	**71.46**	**0.94**	**0.81**	**0.90**	**0.80**
Reading	4	101	103	989	1.66	1.62	0.04	0.64	0.68	9.00	90.09	0.91	0.86	0.93	0.86
Reading	**5**	**29**	**33**	**967**	**1.59**	**1.51**	**0.08**	**0.85**	**0.87**	**29.16**	**69.18**	**1.65**	**0.76**	**0.88**	**0.76**
Reading	**5**	**96**	**96**	**967**	**0.67**	**0.63**	**0.04**	**0.61**	**0.61**	**24.10**	**75.80**	**0.10**	**0.67**	**0.84**	**0.67**
Reading	**6**	**46**	**45**	**958**	**1.54**	**1.54**	**0.00**	**0.67**	**0.67**	**6.68**	**93.11**	**0.21**	**0.92**	**0.96**	**0.92**
Reading	**6**	**107**	**110**	**962**	**0.92**	**0.86**	**0.06**	**0.56**	**0.59**	**23.80**	**75.36**	**0.83**	**0.60**	**0.80**	**0.59**
Reading	**7**	**25**	**24**	**952**	**1.41**	**1.29**	**0.12**	**0.94**	**0.89**	**25.95**	**68.28**	**5.78**	**0.69**	**0.84**	**0.69**
Reading	7	35	35	987	0.86	0.79	0.07	0.77	0.82	23.61	72.85	3.55	0.70	0.85	0.70
Reading	8	26	26	951	1.40	1.59	-0.19	0.79	0.87	39.12	57.20	3.68	0.64	0.81	0.62
Reading	8	39	42	921	0.90	0.87	0.03	0.93	0.95	8.90	90.77	0.33	0.94	0.97	0.94
Reading	9	18	17	976	1.95	1.92	0.03	1.06	1.05	6.86	91.60	1.54	0.94	0.97	0.94
Reading	9	44	41	961	0.87	0.80	0.07	0.66	0.74	34.86	64.62	0.52	0.63	0.81	0.63
Reading	10	7	7	918	1.61	1.13	0.48	0.97	0.82	40.96	46.41	12.64	0.53	0.71	0.46
Reading	**10**	**30**	**30**	**943**	**1.62**	**1.67**	**-0.05**	**0.87**	**0.80**	**33.83**	**63.84**	**2.33**	**0.69**	**0.84**	**0.69**
Writing	3	10	10	993	1.31	1.24	0.07	0.48	0.43	22.76	77.24	0.00	0.46	0.73	0.46
Writing	3	10	10	993	0.98	1.00	-0.02	0.14	0.06	2.32	97.68	0.00	0.10	0.53	0.07
Writing	3	10	10	993	0.72	0.86	-0.14	0.45	0.35	16.92	83.08	0.00	0.55	0.74	0.50
Writing	3	10	10	993	0.88	0.93	-0.05	0.33	0.25	8.86	91.14	0.00	0.52	0.74	0.49
Writing	**4**	**92**	**77**	**921**	**2.42**	**2.36**	**0.06**	**0.79**	**0.76**	**29.75**	**69.38**	**0.87**	**0.72**	**0.86**	**0.72**
Writing	5	116	116	994	2.55	2.56	-0.01	0.63	0.65	27.67	72.03	0.30	0.65	0.82	0.65
Writing	**6**	**116**	**116**	**964**	**2.78**	**2.64**	**0.14**	**0.85**	**0.86**	**29.36**	**69.71**	**0.93**	**0.77**	**0.88**	**0.76**
Writing	7	72	74	982	2.63	2.69	-0.06	0.74	0.78	33.20	66.29	0.51	0.70	0.85	0.70
Writing	8	116	116	970	2.59	2.64	-0.05	0.71	0.80	32.78	67.01	0.21	0.71	0.85	0.71

* Items from 2012 are in bold.

Table 17. Rater Severity/Leniency Study Results (cont'd)

Content Area	Grade	2011/2012 Item Number	2013 Item Number	Valid N	Mean 2011/2012	Mean 2013	Mean Difference	STD 2011/2012	STD 2013	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Wtd Kappa
Writing	9	94	96	941	2.44	2.22	0.22	0.78	0.78	32.31	67.16	0.53	0.75	0.86	0.72
Writing	10	116	116	939	2.60	2.60	0.00	0.80	0.82	24.60	75.08	0.32	0.80	0.90	0.80
Mathematics	3	9	16	975	1.05	1.07	-0.02	0.84	0.83	10.56	88.51	0.92	0.90	0.95	0.90
Mathematics	3	40	40	980	1.94	1.90	0.04	0.93	0.95	13.47	85.92	0.61	0.91	0.95	0.91
Mathematics	4	7	11	983	2.72	2.70	0.02	0.58	0.59	9.16	90.13	0.71	0.83	0.91	0.83
Mathematics	4	61	60	982	1.28	1.28	0.00	0.81	0.81	7.64	92.36	0.00	0.94	0.97	0.94
Mathematics	4	69	69	985	2.27	2.33	-0.06	1.44	1.42	9.04	89.75	1.22	0.97	0.98	0.97
Mathematics	5	7	8	994	1.49	1.51	-0.02	0.80	0.81	8.55	90.34	1.11	0.90	0.95	0.90
Mathematics	5	54	59	983	1.00	1.03	-0.03	0.93	0.93	9.56	90.34	0.10	0.94	0.97	0.94
Mathematics	5	69	69	991	2.55	2.36	0.19	0.99	0.99	35.32	61.65	3.03	0.78	0.88	0.76
Mathematics	6	20	20	990	2.47	2.42	0.05	1.05	1.13	22.93	76.67	0.40	0.90	0.95	0.89
Mathematics	6	30	24	992	1.43	1.38	0.05	0.82	0.88	7.66	92.14	0.20	0.95	0.97	0.94
Mathematics	6	47	56	998	1.68	1.67	0.01	1.17	1.15	10.12	88.88	1.00	0.95	0.97	0.95
Mathematics	7	20	20	955	1.33	1.23	0.10	1.25	1.20	15.39	83.46	1.15	0.94	0.97	0.93
Mathematics	7	26	26	988	1.85	1.88	-0.03	1.01	1.00	15.99	83.30	0.71	0.91	0.95	0.91
Mathematics	7	51	50	977	1.23	1.29	-0.06	0.64	0.65	10.54	89.46	0.00	0.88	0.94	0.87
Mathematics	8	20	20	917	1.03	1.06	-0.03	1.26	1.27	18.21	79.61	2.18	0.91	0.96	0.91
Mathematics	8	25	32	977	0.93	0.92	0.01	0.72	0.72	7.06	92.94	0.00	0.93	0.97	0.93
Mathematics	8	47	55	979	1.26	1.38	-0.12	0.79	0.77	16.55	82.64	0.82	0.85	0.92	0.84
Mathematics	9	7	8	949	1.25	1.40	-0.15	1.30	1.29	14.65	80.72	4.64	0.90	0.95	0.89
Mathematics	9	23	22	940	0.55	0.63	-0.08	0.76	0.77	13.72	84.89	1.38	0.84	0.92	0.84
Mathematics	9	60	60	941	1.54	1.49	0.05	1.41	1.42	12.86	84.48	2.66	0.94	0.97	0.94
Mathematics	10	12	13	925	0.91	0.92	-0.01	0.80	0.81	7.78	92.00	0.22	0.93	0.97	0.93
Mathematics	10	20	20	948	2.17	2.08	0.09	1.20	1.19	31.75	63.50	4.75	0.82	0.91	0.82
Mathematics	10	54	57	931	1.08	1.06	0.02	1.16	1.15	14.50	84.64	0.86	0.93	0.96	0.93

* Items from 2012 are in bold.

Table 17. Rater Severity/Leniency Study Results (cont'd)

Content Area	Grade	2011/2012 Item Number	2013 Item Number	Valid N	Mean 2011/ 2012	Mean 2013	Mean Difference	STD 2011/ 2012	STD 2013	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Wtd Kappa
Science	5	24	24	983	0.49	0.38	0.11	0.50	0.49	18.31	81.69	0.00	0.65	0.81	0.63
Science	**5**	**62**	**61**	**997**	**1.24**	**1.10**	**0.14**	**0.77**	**0.79**	**17.05**	**81.75**	**1.20**	**0.84**	**0.91**	**0.82**
Science	8	22	22	987	2.80	2.70	0.10	1.20	1.24	29.28	64.13	6.59	0.80	0.90	0.80
Science	**8**	**43**	**35**	**977**	**0.50**	**0.51**	**-0.01**	**0.50**	**0.50**	**22.82**	**77.18**	**0.00**	**0.54**	**0.77**	**0.54**
Science	**8**	**75**	**75**	**970**	**0.78**	**0.76**	**0.02**	**0.74**	**0.73**	**12.47**	**87.32**	**0.21**	**0.88**	**0.94**	**0.88**
Science	10	22	22	959	2.28	2.48	-0.20	1.51	1.44	23.57	68.20	8.24	0.87	0.93	0.86
Science	**10**	**39**	**42**	**942**	**0.28**	**0.29**	**-0.01**	**0.45**	**0.45**	**9.45**	**90.55**	**0.00**	**0.77**	**0.88**	**0.77**
Science	10	83	78	941	0.58	0.52	0.06	0.49	0.50	18.60	81.40	0.00	0.63	0.81	0.63

* Items from 2012 are in bold.

Table 18. Tested Population Demographic Distribution – Reading

Subgroup	Grade							
	3	4	5	6	7	8	9	10
No Disability	57140	57853	56738	55988	56343	55141	55430	52785
Disability	5817	6409	6446	6217	5691	5479	5201	4511
No IEP	57129	57842	56730	55988	56333	55140	55415	52780
IEP	5815	6404	6444	6212	5693	5474	5210	4506
No Accommodation	49207	48545	47692	49718	50296	49454	51638	49312
Accommodation	9286	11515	11292	8491	6993	6578	3628	3067
Am. Indian/Alaska Native	481	460	461	500	507	509	477	457
Asian	2030	2092	2135	1956	1951	1839	1911	1876
Black	2835	2964	2877	2741	2968	3027	3057	2698
Hispanic	20113	21162	20693	20175	20096	19160	18906	16996
White	35248	35191	34798	34561	34399	33964	34283	33422
Hawaiian/Pacific Islander	130	143	121	125	118	161	147	144
Two or More Races	2120	2248	2099	2141	1992	1959	1845	1706
Not Free Lunch Eligible	35060	35411	34951	34954	35586	35520	36765	36666
Free Lunch Eligible	23383	24187	23524	22529	21854	20635	19477	16793
Reduced Lunch Eligible	4491	4635	4682	4687	4560	4433	4345	3798
Female	30832	31647	30890	30738	30236	29690	29774	28160
Male	32122	32614	32292	31466	31794	30930	30849	29136
Language Proficiency NA	51481	51712	50834	50609	50686	50157	50359	48070
Language Proficiency NEP	1736	1764	1211	877	870	678	679	625
Language Proficiency LEP	7934	7713	7036	6098	5288	4231	3552	3032
Language Proficiency FEP	1802	3067	4100	4611	5182	5549	6036	5559
Not Migrant Or Immigrant	62301	63628	62522	61597	61398	60008	59923	56629
Migrant	141	178	192	169	152	130	144	107
Immigrant	493	427	445	417	458	460	536	535
Migrant and Immigrant	9	12	13	13	17	16	16	15

Table 19. Tested Population Demographic Distribution – Writing

Subgroup	Grade							
	3	**4**	**5**	**6**	**7**	**8**	**9**	**10**
No Disability	57228	57764	56553	56413	56264	55098	55456	52862
Disability	5846	6401	6438	6284	5701	5492	5220	4517
No IEP	57219	57753	56545	56413	56254	55096	55441	52857
IEP	5843	6396	6436	6279	5703	5487	5229	4512
No Accommodation	48101	46941	46356	48727	49424	49036	51047	48878
Accommodation	10833	12842	12256	9472	7524	6720	4054	3310
Am. Indian/Alaska Native	481	461	459	504	509	510	476	456
Asian	2031	2086	2126	1985	1945	1839	1911	1875
Black	2843	2956	2870	2904	2962	3025	3063	2706
Hispanic	20173	21144	20587	20349	20095	19154	18912	17021
White	35293	35129	34733	34654	34344	33940	34314	33474
Hawaiian/Pacific Islander	132	142	121	128	118	160	147	143
Two or More Races	2121	2245	2095	2167	1989	1961	1848	1707
Not Free Lunch Eligible	35078	35344	34894	35068	35524	35493	36792	36727
Free Lunch Eligible	23471	24168	23394	22858	21842	20635	19495	16801
Reduced Lunch Eligible	4499	4624	4676	4736	4564	4429	4345	3812
Female	30862	31597	30798	30960	30204	29677	29790	28204
Male	32211	32567	32191	31736	31757	30913	30878	29175
Language Proficiency NA	51592	51638	50718	50906	50617	50132	50403	48147
Language Proficiency NEP	1746	1754	1205	895	874	678	676	625
Language Proficiency LEP	7934	7702	6986	6177	5290	4229	3553	3037
Language Proficiency FEP	1799	3065	4079	4709	5176	5546	6039	5560
Not Migrant Or Immigrant	62418	63533	62332	62075	61329	59979	59972	56710
Migrant	140	177	192	169	152	129	144	108
Immigrant	494	426	442	431	458	459	532	536
Migrant and Immigrant	9	12	13	13	17	16	16	15

Table 20. Tested Population Demographic Distribution – Mathematics

Subgroup	Grade							
	3	4	5	6	7	8	9	10
No Disability	58320	57919	56793	56468	56358	55192	55603	52993
Disability	5952	6446	6465	6293	5718	5491	5245	4524
No IEP	58317	57909	56784	56469	56348	55188	55588	52989
IEP	5948	6443	6465	6287	5721	5489	5248	4521
No Accommodation	49005	49168	48375	50027	50223	49956	51749	49584
Accommodation	11022	10941	10658	8283	7094	6140	3794	3060
Am. Indian/Alaska Native	483	459	459	507	507	505	481	454
Asian	2034	2091	2136	1992	1949	1839	1918	1882
Black	2845	2969	2877	2908	2978	3033	3082	2714
Hispanic	21334	21274	20745	20344	20110	19186	18960	17058
White	35319	35174	34821	34711	34419	33991	34409	33558
Hawaiian/Pacific Islander	131	144	121	126	119	162	148	146
Two or More Races	2127	2253	2100	2167	1990	1964	1846	1709
Not Free Lunch Eligible	35151	35403	34985	35141	35579	35541	36871	36782
Free Lunch Eligible	24535	24302	23557	22856	21896	20675	19579	16877
Reduced Lunch Eligible	4561	4634	4689	4733	4564	4435	4353	3821
Female	31480	31676	30920	30995	30246	29719	29878	28247
Male	32794	32685	32338	31767	31828	30961	30966	29270
Language Proficiency NA	51616	51691	50862	50964	50715	50214	50556	48248
Language Proficiency NEP	2071	1872	1226	900	884	681	690	641
Language Proficiency LEP	8740	7731	7059	6175	5283	4238	3563	3047
Language Proficiency FEP	1843	3066	4107	4714	5186	5545	6034	5569
Not Migrant Or Immigrant	63563	63699	62588	62145	61436	60070	60132	56844
Migrant	148	183	192	168	154	134	145	109
Immigrant	545	454	454	429	461	455	542	537
Migrant and Immigrant	9	14	12	14	17	17	16	15

Table 21. Tested Population Demographic Distribution – Science

Subgroup	Grade		
	5	8	10
No Disability	56772	55127	52891
Disability	6463	5484	4522
No IEP	56763	55128	52884
IEP	6462	5477	4521
No Accommodation	49429	50609	49638
Accommodation	9418	5326	2857
Am. Indian/Alaska Native	460	510	455
Asian	2136	1837	1873
Black	2873	3025	2715
Hispanic	20737	19162	17026
White	34809	33952	33496
Hawaiian/Pacific Islander	122	162	143
Two or More Races	2099	1963	1711
Not Free Lunch Eligible	34980	35495	36740
Free Lunch Eligible	23541	20644	16829
Reduced Lunch Eligible	4688	4440	3809
Female	30894	29667	28218
Male	32340	30944	29197
Language Proficiency NA	50848	50140	48169
Language Proficiency NEP	1218	679	634
Language Proficiency LEP	7061	4231	3040
Language Proficiency FEP	4105	5556	5561
Not Migrant Or Immigrant	62570	59997	56744
Migrant	192	134	109
Immigrant	449	458	535
Migrant and Immigrant	12	16	15

Table 22. Tested Population Demographic Distribution – Spanish Reading and Writing

Subgroup	Reading Grade		Writing Grade	
	3	4	3	4
No Disability	1070	106	1077	100
Disability	97	2	101	2
No IEP	1070	105	1077	99
IEP	97	2	101	2
No Accommodation	916	71	913	57
Accommodation	244	35	259	39
Am. Indian/Alaska Native	4	.	4	.
Asian	.	.	.	.
Black	.	.	.	.
Hispanic	1155	105	1166	99
White	7	3	7	3
Hawaiian/Pacific Islander	.	.	.	.
Two or More Races	1	.	1	.
Not Free Lunch Eligible	41	9	43	8
Free Lunch Eligible	1065	93	1074	88
Reduced Lunch Eligible	61	5	61	5
Female	594	50	604	48
Male	573	58	574	54
Language Proficiency NA	7	2	7	2
Language Proficiency NEP	306	94	317	89
Language Proficiency LEP	811	12	811	11
Language Proficiency FEP	43	.	43	.
Not Migrant Or Immigrant	1117	76	1123	71
Migrant	7	3	7	3
Immigrant	43	26	48	25
Migrant and Immigrant	.	2	.	2

Table 23. Multiple-Choice Item Analyses, Grade 3 Reading

Mean Item-Total Corr.: 0.40 Mean *p*-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	1	1/4	0.37	0.17	0.54	21	2	1	1/4	0.27	0.14	0.60
2	1	1	1/4	0.30	0.15	0.46	22	2	1	1/4	0.47	0.11	0.77
3	1	1	3	0.38	0.12	0.62	24	2	1	3	0.47	0.62	0.74
5	1	1	1/4	0.48	0.24	0.75	25	2	1	1/4	0.46	0.20	0.80
6	1	1	3	0.44	0.45	0.70	26	2	1	3	0.48	0.17	0.93
7	1	1	2	0.26	0.14	0.75	27	2	1	3	0.48	0.47	0.69
8	1	1	2	0.36	0.31	0.40	28	2	1	1/4	0.49	0.29	0.83
9	1	1	2	0.33	0.22	0.64	31	2	1	3	0.40	0.36	0.76
10	1	1	2	0.43	0.66	0.65	33	2	1	2	0.34	0.67	0.42
11	1	1	1/4	0.26	0.27	0.41	34	2	1	2	0.53	0.91	0.76
12	1	1	1/4	0.27	0.30	0.77	35	2	1	3	0.51	1.01	0.74
14	1	1	1/4	0.45	0.48	0.85	36	2	1	3	0.40	1.71	0.69
15	1	1	1/4	0.35	0.54	0.44	37	2	1	3	0.51	1.15	0.59
17	1	1	3	0.44	0.88	0.77	38	2	1	3	0.47	1.45	0.70
18	1	1	3	0.45	0.99	0.90	39	2	1	2	0.16	1.76	0.38
19	2	1	1/4	0.38	0.06	0.80	40	2	1	3	0.38	1.57	0.52

Table 24. Constructed-Response Item Analyses, Grade 3 Reading

Mean Item-Total Corr.: 0.45 Mean *p*-Value: 0.53

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4		1	1	1/4	0.52	18.69	53.28	26.51			1.52	0.53
13		1	1	1/4	0.43	19.10	36.78	31.06	11.16		1.91	0.44
16		1	1	1/4	0.38	16.60	21.74	59.81			1.85	0.71
20		2	1	1/4	0.42	21.03	40.20	30.76	7.10		0.92	0.41
23		2	1	1/4	0.39	38.91	36.48	19.33	4.01		1.28	0.29
29		2	1	1/4	0.48	13.26	41.79	43.61			1.33	0.65
30		2	1	1/4	0.51	11.66	21.73	64.86			1.75	0.76
32		2	1	2	0.48	16.92	45.30	27.79	8.23		1.77	0.42

Table 25. Multiple-Choice Item Analyses, Grade 3 Reading (Spanish)

Mean Item-Total Corr.: 0.34 Mean *p*-Value: 0.61

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
3	1	1	2	0.29	0.34	0.25	21	2	1	1/4	0.38	0.86	0.93
4	1	1	2	0.27	0.00	0.67	22	2	1	1/4	0.39	0.09	0.68
5	1	1	3	0.22	0.26	0.38	23	2	1	1/4	0.53	0.34	0.84
6	1	1	3	0.22	0.17	0.23	24	2	1	3	0.40	0.26	0.83
7	1	1	1/4	0.30	0.26	0.31	27	2	1	2	0.32	0.77	0.87
9	1	1	3	0.27	0.26	0.42	28	2	1	3	0.49	0.26	0.75
10	1	1	3	0.26	0.17	0.61	29	2	1	3	0.29	0.26	0.74
11	1	1	1/4	0.37	0.17	0.69	30	2	1	2	0.40	0.26	0.51
12	1	1	1/4	0.32	0.17	0.55	31	2	1	2	0.40	0.60	0.64
13	1	1	1/4	0.31	0.43	0.32	33	2	1	2	0.33	0.17	0.58
14	1	1	1/4	-0.04	0.51	0.40	34	2	1	2	0.21	0.17	0.49
15	1	1	3	0.45	1.03	0.80	35	2	1	3	0.04	0.94	0.33
16	1	1	1/4	0.41	1.37	0.86	37	2	1	1/4	0.55	0.26	0.75
18	1	1	1/4	0.42	8.14	0.75	38	2	1	3	0.40	0.60	0.62
19	1	1	1/4	0.49	2.66	0.76	39	2	1	1/4	0.43	0.51	0.59
20	1	1	3	0.43	2.91	0.65	40	2	1	3	0.33	0.69	0.60

Table 26. Constructed-Response Item Analyses, Grade 3 Reading (Spanish)

Mean Item-Total Corr.: 0.56 Mean *p*-Value: 0.61

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	1	2	0.53	23.74	10.54	22.97	42.59		0.17	0.61
2		1	1	2	0.63	25.02	7.11	8.23	58.96		0.69	0.67
8		1	1	1/4	0.57	22.11	28.79	48.50			0.60	0.63
17		1	1	1/4	0.54	9.94	20.82	34.62	32.48		2.14	0.62
25		2	1	1/4	0.56	11.48	22.97	65.21			0.34	0.77
26		2	1	1/4	0.52	40.87	9.68	48.50			0.94	0.53
32		2	1	2	0.52	27.76	32.13	28.19	11.23		0.69	0.41
36		2	1	1/4	0.61	22.37	30.85	46.02			0.77	0.61

Table 27. Multiple-Choice Item Analyses, Grade 3 Writing

Mean Item-Total Corr.: 0.38 Mean *p*-Value: 0.74

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
2	1	2		0.40	0.23	0.87	21	2	3	7	0.39	0.09	0.92
3	1	2	5	0.27	0.13	0.44	22	2	3	7	0.38	0.10	0.80
4	1	3	7	0.49	0.31	0.83	23	2	3	7	0.25	0.19	0.90
5	1	3	7	0.48	0.26	0.91	24	2	3	7	0.44	0.39	0.78
6	1	3	7	0.46	0.19	0.92	25	2	3	7	0.40	0.48	0.89
7	1	3	7	0.28	0.35	0.95	26	2	2	5	0.39	0.41	0.88
8	1	3	7	0.41	0.16	0.77	27	2	3	8	0.38	0.77	0.75
9	1	3	7	0.46	0.52	0.84	29	2	3	8	0.32	0.33	0.59
11	1	2	5	0.23	0.29	0.54	30	2	3	8	0.34	0.26	0.85
12	1	2	5	0.24	0.37	0.41	31	2	3	8	0.27	0.34	0.41
13	1	2		0.38	6.94	0.79	32	2	3	7	0.34	0.28	0.55
14	1	2		0.37	2.55	0.81	33	2	2		0.41	0.36	0.87
15	1	3	7	0.35	0.85	0.43	34	2	2		0.46	0.59	0.78
16	1	2		0.38	0.85	0.82	35	2	3	8	0.45	0.31	0.66
17	1	3	7	0.36	0.45	0.75	36	2	3	8	0.40	0.47	0.71
18	1	2	5	0.39	0.54	0.78	37	2	3	8	0.47	0.42	0.76
19	1	2	5	0.35	1.10	0.51	38	2	3	7	0.37	0.80	0.67
20	2	3	7	0.44	0.04	0.91							

Table 28. Constructed-Response Item Analyses, Grade 3 Writing

Mean Item-Total Corr.: 0.43 Mean *p*-Value: 0.80

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1	A	1	3	8	0.46	17.04	82.81				0.16	0.83
1	B	1	3	7	0.59	24.64	75.21				0.15	0.75
1	C	1	3	7	0.52	21.90	77.95				0.16	0.78
1	D	1	3	8	0.48	37.12	62.73				0.15	0.63
1	E	1	3	8	0.43	24.88	74.96				0.16	0.75
1	F	1	3	7	0.56	27.76	72.07				0.16	0.72
10	A	1	2	5	0.37	0.50	64.18	34.39			0.93	0.66
10	B	1	2	5	0.25	0.90	98.17				0.93	0.98
10	C	1	2	5	0.51	17.72	81.36				0.92	0.81
10	D	1	3	5	0.42	6.92	92.16				0.92	0.92
28	A	2	2	5	0.34	0.30	69.41	29.74			0.56	0.64
28	B	2	2	5	0.22	0.42	99.02				0.56	0.99
28	C	2	2	5	0.50	15.40	84.04				0.56	0.84
28	D	2	3	5	0.44	9.13	90.31				0.56	0.90
39	A	2	2	5	0.38	0.44	70.40	28.11			1.05	0.63
39	B	2	2	5	0.22	0.55	98.41				1.05	0.98
39	C	2	2	5	0.52	23.15	75.80				1.05	0.76
39	D	2	3	5	0.49	11.87	87.08				1.05	0.87

Table 29. Multiple-Choice Item Analyses, Grade 3 Writing (Spanish)

Mean Item-Total Corr.: 0.36 Mean *p*-Value: 0.72

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	3	7	0.32	0.17	0.88	21	2	3	8	0.33	0.00	0.75
2	1	3	7	0.40	0.08	0.86	22	2	3	8	0.41	0.00	0.58
3	1	3	7	0.46	0.34	0.89	23	2	3	8	0.39	0.17	0.79
5	1	3	7	0.33	0.08	0.59	24	2	3	8	0.29	0.00	0.69
6	1	3	7	0.33	0.25	0.81	25	2	3	8	0.46	0.17	0.81
7	1	3	7	0.30	0.08	0.71	26	2	3	8	0.31	0.34	0.41
8	1	3	7	0.29	1.70	0.54	28	2	3	7	0.35	0.08	0.69
9	1	3	7	0.38	1.78	0.51	29	2	3	7	0.46	0.17	0.87
10	1	3	7	0.33	0.08	0.94	30	2	3	7	0.41	0.34	0.84
11	1	3	7	0.38	0.25	0.84	31	2	3	7	0.49	0.85	0.71
12	1	3	7	0.40	0.34	0.93	32	2	3	7	0.40	1.10	0.58
13	1	2		0.35	0.17	0.77	33	2	2		0.39	1.19	0.69
14	1	2		0.31	0.25	0.79	34	2	2		0.37	0.25	0.93
15	1	2	7	0.35	0.42	0.83	35	2	2		0.37	0.59	0.92
17	1	2		0.47	0.51	0.75	36	2	2		0.40	0.68	0.70
18	1	2		0.17	0.68	0.21	37	2	2		0.36	0.93	0.51
19	1	2		0.17	0.68	0.29	38	2	2		0.29	1.02	0.79
20	2	3	8	0.38	0.00	0.71							

Table 30. Constructed-Response Item Analyses, Grade 3 Writing (Spanish)

Mean Item-Total Corr.: 0.51 Mean *p*-Value: 0.67

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4	A	1	3	8	0.39	16.38	83.02				0.59	0.83
4	B	1	3	7	0.39	73.77	25.64				0.59	0.26
4	C	1	3	8	0.53	32.77	66.64				0.59	0.67
4	D	1	3	8	0.49	38.03	61.38				0.59	0.61
4	E	1	3	7	0.43	45.59	53.82				0.59	0.54
4	F	1	3	7	0.32	20.12	79.29				0.59	0.79
16	A	1	2	5	0.53	11.80	55.60	32.09			0.51	0.60
16	B	1	2	5	0.49	20.29	79.29				0.42	0.79
16	C	1	2	5	0.57	26.32	73.26				0.42	0.73
16	D	1	3	5	0.53	14.60	84.98				0.42	0.85
27	A	2	2	5	0.59	20.20	52.97	26.74			0.08	0.53
27	B	2	2	5	0.60	31.49	68.42				0.08	0.68
27	C	2	2	5	0.64	29.80	70.12				0.08	0.70
27	D	2	3	5	0.61	21.56	78.35				0.08	0.78
39	A	2	2	5	0.53	22.58	40.66	36.25			0.51	0.57
39	B	2	2	5	0.52	35.40	64.09				0.51	0.64
39	C	2	2	5	0.57	36.42	63.16				0.42	0.63
39	D	2	3	5	0.53	22.07	77.50				0.42	0.78

Table 31. Multiple-Choice Item Analyses, Grade 3 Mathematics

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.70

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	4/5		0.31	0.25	0.29	21	2	4/5		0.19	0.17	0.97
2	1	4/5		0.25	0.60	0.56	22	2	6		0.24	0.88	0.92
3	1	1		0.36	0.37	0.64	23	2	2/3		0.56	0.10	0.68
4	1	4/5		0.37	0.24	0.50	24	2	2/3		0.40	0.31	0.35
5	1	1		0.31	0.43	0.73	25	2	2/3		0.51	0.31	0.56
7	1	4/5		0.36	5.05	0.87	27	2	4/5		0.44	0.44	0.62
8	1	2/3		0.49	0.27	0.56	28	2	4/5		0.22	0.60	0.96
9	1	4/5		0.14	0.76	0.67	29	2	6		0.39	1.65	0.78
10	1	6		0.42	2.06	0.69	31	2	2/3		0.53	0.86	0.73
12	1	2/3		0.56	0.28	0.62	32	2	4/5		0.37	0.49	0.78
13	1	1		0.29	0.81	0.95	33	2	4/5		0.54	0.27	0.54
14	1	2/3		0.46	0.43	0.87	34	2	6		0.41	1.41	0.73
15	1	1		0.50	0.58	0.84	36	2	4/5		0.55	0.40	0.65
17	1	6		0.49	0.67	0.64	37	2	4/5		0.58	0.48	0.64
18	1	1		0.44	0.37	0.71	38	2	1		0.52	0.27	0.68
19	1	2/3		0.39	0.98	0.85	39	2	2/3		0.58	0.40	0.70

Table 32. Constructed-Response Item Analyses, Grade 3 Mathematics

Mean Item-Total Corr.: 0.53 Mean *p*-Value: 0.46

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
6		1	6		0.59	20.51	60.75	18.53			0.20	0.49
11		1	1		0.53	52.04	9.02	38.66			0.28	0.43
16		1	1		0.59	33.66	28.26	37.54			0.54	0.52
20		1	4/5		0.49	27.58	32.76	24.66	14.60		0.41	0.42
26		2	4/5		0.30	78.16	19.16	1.51			1.17	0.11
30		2	2/3		0.57	41.22	10.04	46.77			1.97	0.52
35		2	2/3		0.62	34.25	13.74	51.45			0.57	0.58
40		2	6		0.56	4.01	34.69	22.97	38.02		0.33	0.65

Table 33. Multiple-Choice Item Analyses, Grade 4 Reading

Mean Item-Total Corr.: 0.39 Mean *p*-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
4	3	6	1/4	0.26	2.71	0.93	39	4	4	2	0.41	0.13	0.57
6	3	6	3	0.47	0.22	0.52	40	4	5		0.44	0.19	0.79
7	3	6	1/4	0.45	0.43	0.73	41	4	6	2	0.52	0.48	0.75
8	3	1	3	0.23	0.48	0.92	43	4	1	2	0.52	0.26	0.87
9	3	1	3	0.33	0.19	0.56	44	4	4	2	0.45	0.74	0.73
10	3	5		0.35	0.22	0.82	46	4	5		0.35	0.35	0.63
11	3	4	2	0.37	0.24	0.59	47	4	1	1/4	0.49	0.25	0.76
12	3	5		0.48	0.26	0.62	48	4	6	1/4	0.30	0.37	0.61
13	3	1	3	0.48	0.39	0.86	49	4	6	1/4	0.44	0.44	0.72
14	3	5		0.34	0.13	0.89	50	4	1	1/4	0.34	0.45	0.57
15	3	5		0.33	0.28	0.54	52	4	4	1/4	0.33	1.72	0.73
16	3	6	1/4	0.46	0.20	0.64	53	4	1	3	0.34	1.75	0.85
17	3	1	3	0.14	0.26	0.34	96	6	4	2	0.49	0.11	0.72
18	3	1	3	0.22	0.37	0.46	97	6	4	2	0.40	0.27	0.80
20	3	4	1/4	0.17	0.75	0.39	98	6	4	2	0.42	0.42	0.90
22	3	6	1/4	0.31	0.80	0.45	99	6	5		0.47	0.38	0.84
23	3	6	1/4	0.36	0.98	0.47	100	6	5		0.42	0.87	0.56
24	3	6	1/4	0.44	0.87	0.57	101	6	1	3	0.43	0.33	0.90
25	3	6	1/4	0.32	1.53	0.41	102	6	5		0.49	0.51	0.74
27	3	1	3	0.41	3.10	0.46	105	6	1	2	0.41	0.43	0.89
29	3	1	1/4	0.32	3.48	0.34	106	6	1	2	0.48	0.83	0.89
31	3	6	1/4	0.47	4.29	0.65	107	6	1	2	0.47	0.29	0.86
32	4	4	1/4	0.28	0.16	0.38	108	6	1	2	0.30	0.42	0.60
33	4	6	1/4	0.34	0.15	0.81	109	6	1	2	0.26	0.47	0.60
34	4	1	1/4	0.44	0.16	0.70	110	6	1	1/4	0.50	0.21	0.83
36	4	4	1/4	0.35	0.18	0.58	111	6	1	3	0.47	0.27	0.94
37	4	5		0.38	0.23	0.75	112	6	1	3	0.43	0.46	0.76
38	4	5		0.35	0.17	0.33	113	6	1	1/4	0.47	0.88	0.85

Table 34. Constructed-Response Item Analyses, Grade 4 Reading

Mean Item-Total Corr.: 0.50 Mean *p*-Value: 0.54

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
5		3	4	1/4	0.58	20.04	32.02	47.38			0.56	0.63
19		3	5		0.51	58.92	21.20	15.00			4.89	0.26
21		3	6	1/4	0.50	46.97	25.51	20.05	4.79		2.68	0.27
26		3	5		0.56	26.77	15.62	25.90	27.62		4.10	0.50
28		3	1	1/4	0.55	19.31	36.04	31.33	8.26		5.06	0.41
30		3	6	1/4	0.52	17.90	47.08	28.72			6.30	0.52
35		4	4	1/4	0.27	17.18	52.58	20.05	9.31		0.88	0.40
42		4	4	2	0.49	8.26	33.08	35.02	22.43		1.20	0.57
45		4	1	2	0.52	14.01	42.66	30.62	11.27		1.44	0.46
51		4	1	1/4	0.53	34.84	50.23	12.84			2.10	0.38
103		6	5		0.43	10.70	14.09	74.47			0.74	0.82
104		6	1	2	0.54	5.24	7.71	18.44	67.84		0.77	0.83
114		6	1	1/4	0.48	10.88	37.85	50.09			1.18	0.69
115		6	1	1/4	0.48	11.27	16.99	70.48			1.25	0.79

Table 35. Multiple-Choice Item Analyses, Grade 4 Reading (Spanish)

Mean Item-Total Corr.: 0.32 Mean *p*-Value: 0.59

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
4	3	1	2	0.37	0.00	0.51	39	4	5		0.36	3.70	0.68
5	3	5		0.40	0.00	0.59	40	4	1	1/4	0.40	0.93	0.75
6	3	6	2	0.13	0.93	0.72	41	4	1	1/4	0.35	0.93	0.50
7	3	5		0.34	1.85	0.30	43	4	1	1/4	0.44	1.85	0.34
8	3	6	2	0.00	0.93	0.32	46	4	1	3	0.49	5.56	0.82
9	3	4	2	0.36	0.00	0.61	47	4	6	3	-0.01	6.48	0.36
10	3	4	2	0.44	0.00	0.63	48	4	5		0.19	5.56	0.27
11	3	1	3	-0.06	0.00	0.63	91	6	1	2	0.35	0.00	0.85
12	3	6	2	0.17	0.00	0.45	92	6	1	3	0.39	0.00	0.80
15	3	4	1/4	0.23	0.00	0.69	93	6	1	3	0.24	0.00	0.51
16	3	1	1/4	0.16	0.00	0.75	94	6	1	2	0.33	0.00	0.76
17	3	4	1/4	0.14	0.00	0.81	95	6	1	2	0.29	1.85	0.74
18	3	1	1/4	0.39	0.00	0.77	96	6	1	2	0.19	0.00	0.68
19	3	6	1/4	0.21	0.00	0.92	99	6	6	1/4	0.26	0.00	0.62
20	3	1	1/4	0.05	0.93	0.49	101	6	4	1/4	0.44	0.00	0.51
21	3	1	1/4	0.36	0.93	0.52	102	6	4	1/4	0.47	0.00	0.31
22	3	1	1/4	0.36	0.93	0.54	103	6	1	3	0.37	0.93	0.78
23	3	6	1/4	0.23	0.93	0.53	104	6	1	3	0.47	3.70	0.65
24	3	6	1/4	0.25	0.93	0.74	105	6	5		0.42	4.63	0.62
26	4	1	2	0.30	0.93	0.49	106	6	5		0.15	0.00	0.31
27	4	1	3	0.48	0.00	0.74	107	6	5		0.26	0.93	0.55
28	4	4	2	0.53	0.00	0.66	109	6	1	2	0.48	0.93	0.64
30	4	4	2	0.28	0.00	0.38	110	6	1	2	0.46	1.85	0.46
32	4	4	2	0.35	0.93	0.44	111	6	4	2	0.62	0.93	0.62
35	4	4	1/4	0.26	2.78	0.73	112	6	1	3	0.31	0.93	0.58
36	4	1	1/4	0.51	1.85	0.58	113	6	1	3	0.50	1.85	0.68
37	4	1	3	0.40	1.85	0.76	114	6	5		0.38	1.85	0.67
38	4	5		0.33	2.78	0.43	115	6	5		0.38	0.93	0.51

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Table 36. Constructed-Response Item Analyses, Grade 4 Reading (Spanish)

Mean Item-Total Corr.: 0.46 Mean *p*-Value: 0.39

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
13		3	1	2	0.58	33.33	28.70	28.70	7.41		1.85	0.36
14		3	5		0.35	45.37	39.82	9.26			5.56	0.29
29		4	5		0.52	11.11	14.82	22.22	50.93		0.93	0.71
31		4	4	2	0.43	66.67	21.30	9.26			2.78	0.20
33		4	6	1/4	0.42	44.44	28.70	18.52	6.48		1.85	0.28
34		4	1	1/4	0.63	29.63	25.00	25.93	15.74		3.70	0.41
42		4	1	1/4	0.52	60.19	23.15	12.04			4.63	0.24
44		4	6	1/4	0.50	25.00	30.56	38.89			5.56	0.54
45		4	4	1/4	0.58	43.52	32.41	10.19	4.63		9.26	0.22
97		6	4	1/4	0.27	31.48	47.22	20.37			0.93	0.44
98		6	6	1/4	0.48	34.26	37.04	17.59	10.19		0.93	0.34
100		6	6	1/4	0.35	50.93	41.67	5.56			1.85	0.26
108		6	1	2	0.47	22.22	16.67	58.33			2.78	0.67
116		6	5		0.43	25.93	7.41	54.63	9.26		2.78	0.48

Table 37. Multiple-Choice Item Analyses, Grade 4 Writing

Mean Item-Total Corr.: 0.37   Mean *p*-Value: 0.73

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
54	5	3	7	0.34	0.36	0.91	74	5	3	7	0.41	0.95	0.89
55	5	3	7	0.26	0.13	0.94	75	5	2		0.31	0.28	0.88
56	5	3	7	0.31	0.42	0.54	76	5	2		0.36	1.61	0.56
57	5	2		0.37	0.22	0.71	78	5	3	7	0.41	0.93	0.60
58	5	2		0.34	0.33	0.90	79	5	2		0.39	2.49	0.87
59	5	3	7	0.27	1.02	0.91	80	5	3	7	0.49	1.43	0.87
60	5	3	7	0.28	2.14	0.87	81	5	3	7	0.45	1.06	0.88
61	5	3	8	0.28	0.34	0.44	82	5	2		0.43	1.39	0.76
62	5	2	5	0.33	0.28	0.79	83	5	3	8	0.48	1.35	0.84
63	5	3	7	0.42	0.40	0.90	84	5	3	8	0.51	2.25	0.69
64	5	2	5	0.30	0.46	0.49	85	5	3	8	0.50	1.30	0.84
65	5	3	7	0.46	0.79	0.62	86	5	3	8	0.41	1.76	0.52
66	5	2	5	0.30	0.42	0.77	87	5	3	7	0.34	2.31	0.85
67	5	2	5	0.43	0.36	0.62	88	5	2	5	0.24	1.56	0.36
68	5	2	5	0.35	0.62	0.57	89	5	3	8	0.37	1.85	0.52
69	5	2		0.34	0.30	0.88	90	5	2	5	0.25	1.82	0.53
70	5	3	7	0.25	0.65	0.92	91	5	3	7	0.48	2.36	0.88
71	5	2	5	0.27	0.58	0.55	92	5	3	8	0.46	2.21	0.73
72	5	3	8	0.37	0.44	0.60	93	5	3	8	0.49	2.95	0.78
73	5	3	7	0.42	0.91	0.81	94	5	3	8	0.45	3.26	0.58

Table 38. Constructed-Response Item Analyses, Grade 4 Writing

Mean Item-Total Corr.: 0.42 Mean *p*-Value: 0.69

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.12	1.47	98.53				0.00	0.99
2	A	2	3	7	0.24	39.77	59.95				0.28	0.60
2	B	2	3	8	0.46	21.72	77.99				0.28	0.78
2	C	2	3	7	0.28	47.86	51.85				0.30	0.52
2	D	2	3	8	0.37	33.78	65.94				0.29	0.66
2	E	2	3	8	0.45	56.14	43.57				0.29	0.44
2	F	2	3	7	0.24	6.25	93.46				0.29	0.93
3	A	2	2	6	0.62	1.76	4.47	37.05	39.65	16.68	0.38	0.66
3	B	2	2	6	0.65	0.00	7.64	38.51	37.57	15.89	0.38	0.65
3	C	2	3	6	0.51	2.05	9.94	87.63			0.38	0.93
77		5	2	5	0.51	0.44	7.90	35.71	41.15	13.21	1.60	0.64
95		5	2	5	0.49	2.26	12.91	48.19	25.75	6.25	4.65	0.53
116		5	2	5	0.54	0.50	7.28	42.16	42.05	6.98	1.03	0.61

Table 39. Multiple-Choice Item Analyses, Grade 4 Writing (Spanish)

Mean Item-Total Corr.: 0.28 Mean *p*-Value: 0.51

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
49	5	3	7	0.24	0.00	0.72	70	5	3	7	0.44	0.00	0.33
50	5	3	7	0.39	0.00	0.80	71	5	3	7	0.25	1.96	0.56
51	5	2		0.21	0.98	0.84	72	5	3	8	0.17	0.00	0.46
52	5	2		0.37	0.00	0.48	73	5	3	8	0.15	0.98	0.29
53	5	2		0.14	0.00	0.97	74	5	3	8	0.39	0.98	0.63
54	5	3	7	0.43	0.00	0.64	75	5	3	8	0.12	1.96	0.45
55	5	2		0.32	0.00	0.79	76	5	3	7	0.35	0.00	0.33
56	5	3	7	0.30	1.96	0.77	77	5	3	7	0.27	0.98	0.38
57	5	2	5	0.26	0.00	0.44	78	5	3	7	0.23	4.90	0.32
58	5	2	5	0.26	0.00	0.48	79	5	3	8	0.17	0.00	0.48
59	5	2	5	0.32	0.00	0.38	80	5	3	8	0.30	0.00	0.37
60	5	2	5	0.32	0.00	0.44	81	5	3	8	0.40	0.98	0.41
61	5	2	5	0.29	0.98	0.53	82	5	3	8	0.10	0.98	0.41
62	5	2	5	0.24	0.98	0.29	83	5	3	8	0.26	0.00	0.48
64	5	3	7	0.33	0.00	0.45	84	5	3	8	0.29	0.00	0.40
65	5	3	7	0.15	0.00	0.67	85	5	3	8	0.18	0.98	0.31
66	5	3	7	0.33	1.96	0.54	86	5	3	8	0.06	0.00	0.31
67	5	3	7	0.40	0.98	0.53	87	5	2		0.34	0.00	0.37
68	5	3	7	0.49	10.78	0.52	88	5	2		0.23	0.98	0.73
69	5	3	7	0.48	12.75	0.41	89	5	2		0.37	0.98	0.46

Table 40. Constructed-Response Item Analyses, Grade 4 Writing (Spanish)

Mean Item-Total Corr.: 0.37 Mean *p*-Value: 0.50

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.20	15.69	84.31				0.00	0.84
2	A	2	3	7	0.36	16.67	79.41				3.92	0.79
2	B	2	3	7	0.39	38.24	57.84				3.92	0.58
2	C	2	3	7	0.48	35.29	60.78				3.92	0.61
2	D	2	3	8	0.13	27.45	68.63				3.92	0.69
2	E	2	3	7	0.31	55.88	40.20				3.92	0.40
2	F	2	3	8	0.21	88.24	7.84				3.92	0.08
3	A	2	2	6	0.47	39.22	13.73	34.31	7.84	1.96	2.94	0.28
3	B	2	2	6	0.56	0.00	39.22	49.02	6.86	1.96	2.94	0.41
3	C	2	3	6	0.55	6.86	58.82	31.37			2.94	0.61
25		5	2	5	0.40	12.75	39.22	16.67	22.55	0.98	7.84	0.36
63		5	2	5	0.44	8.82	27.45	36.28	19.61	3.92	3.92	0.44
90		5	2	5	0.27	7.84	23.53	41.18	20.59	1.96	4.90	0.44

Table 41. Multiple-Choice Item Analyses, Grade 4 Mathematics

Mean Item-Total Corr.: 0.40 Mean *p*-Value: 0.73

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	2	2	0.51	0.04	0.60	36	2	3		0.52	0.14	0.67
2	1	4/5		0.39	0.19	0.53	37	2	1		0.43	0.14	0.85
3	1	6		0.42	0.54	0.81	38	2	1	1	0.30	0.72	0.38
4	1	4/5	3	0.33	2.77	0.91	39	2	4/5		0.23	0.26	0.84
5	1	1	1	0.30	0.14	0.94	41	2	3		0.50	0.42	0.50
6	1	1	1	0.32	0.13	0.90	42	2	1	1	0.26	0.72	0.63
7	1	2	2	0.54	0.15	0.78	43	2	4/5		0.47	0.37	0.70
9	1	6		0.40	2.05	0.59	44	2	4/5		0.44	0.57	0.65
10	1	3		0.30	0.41	0.92	45	2	6		0.33	0.97	0.83
12	1	4/5		0.47	0.53	0.64	47	3	6		0.52	0.06	0.77
13	1	1		0.14	0.26	0.75	48	3	3		0.48	0.11	0.72
14	1	6		0.54	0.73	0.63	49	3	4/5	3	0.54	0.13	0.61
15	1	4/5	3	0.23	0.28	0.71	50	3	3		0.48	0.24	0.46
16	1	2	2	0.53	0.37	0.74	52	3	4/5		0.50	0.59	0.65
18	1	4/5		0.28	0.23	0.88	53	3	6		0.36	0.70	0.89
19	1	2	2	0.39	0.33	0.86	54	3	1	1	0.39	0.59	0.72
21	1	6		0.42	1.06	0.79	56	3	6	1	0.43	0.20	0.83
22	1	2	2	0.52	0.62	0.54	57	3	4/5		0.49	0.28	0.60
24	2	3		0.50	0.10	0.60	58	3	6		0.18	0.46	0.95
25	2	4/5	3	0.26	0.84	0.64	59	3	4/5		0.44	1.31	0.56
26	2	1	1	0.25	0.28	0.98	61	3	4/5	3	0.34	0.46	0.93
27	2	1	1	0.27	0.19	0.94	62	3	6	1	0.59	1.28	0.68
29	2	4/5	3	0.51	0.20	0.75	63	3	3		0.24	0.37	0.52
31	2	3		0.57	0.36	0.65	65	3	4/5		0.22	0.19	0.96
32	2	3		0.36	0.28	0.81	66	3	2	2	0.37	0.39	0.72
33	2	1	1	0.36	0.28	0.67	67	3	6		0.48	1.10	0.78
35	2	6		0.32	0.76	0.87	68	3	4/5		0.49	0.33	0.68

Table 42. Constructed-Response Item Analyses, Grade 4 Mathematics

Mean Item-Total Corr.: 0.57 Mean *p*-Value: 0.53

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
8		1	1	1	0.60	21.89	33.94	38.85			5.32	0.56
11		1	1	1	0.41	1.18	3.90	17.68	77.06		0.18	0.90
17		1	3		0.57	37.14	37.16	24.51			1.19	0.43
20		1	4/5		0.54	26.97	24.77	22.68	24.67		0.92	0.48
23		1	6	1	0.67	7.21	31.91	25.12	20.52	14.76	0.47	0.51
28		2	4/5		0.38	65.17	32.34	1.76			0.73	0.18
30		2	1	1	0.63	31.15	30.26	30.58	7.49		0.52	0.38
34		2	2	2	0.58	22.65	11.87	65.00			0.48	0.71
40		2	4/5		0.59	16.82	26.67	27.89	28.36		0.26	0.56
46		2	2	2	0.60	12.80	11.01	12.35	10.07	53.30	0.48	0.70
51		3	1	1	0.53	65.01	17.89	16.48			0.63	0.25
55		3	6	1	0.59	11.29	19.27	29.36	39.44		0.63	0.65
60		3	2	2	0.60	26.03	27.81	45.86			0.31	0.60
64		3	3		0.62	28.42	18.94	20.12	32.14		0.39	0.52
69		3	4/5		0.61	14.97	19.01	22.38	14.18	29.23	0.24	0.56

Table 43. Multiple-Choice Item Analyses, Grade 5 Reading

Mean Item-Total Corr.: 0.34 Mean p-Value: 0.62

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	6	1/4	0.40	0.09	0.72	42	4	1	3	0.38	0.16	0.84
6	3	6	1/4	0.15	0.10	0.44	43	4	5		0.41	0.19	0.68
7	3	4	1/4	0.49	0.20	0.68	44	4	5		0.34	0.17	0.61
8	3	5		0.46	0.06	0.85	45	4	1	3	0.30	0.44	0.50
9	3	5		0.45	0.14	0.55	46	4	1	2	0.50	0.37	0.73
10	3	1	1/4	0.33	0.21	0.61	48	4	1	3	0.51	0.42	0.84
11	3	1	1/4	0.26	0.32	0.57	49	4	5		0.39	0.44	0.59
13	3	6	1/4	0.44	0.18	0.71	50	4	4	2	0.33	1.04	0.56
14	3	1	3	0.19	0.30	0.37	94	6	4	1/4	0.25	0.14	0.62
15	3	1	3	0.27	0.63	0.49	95	6	1	3	0.40	0.12	0.92
17	3	4	1/4	0.20	0.77	0.43	97	6	1	1/4	0.39	0.17	0.78
19*	3	4	1/4	0.05	0.74	0.42	98	6	1	3	0.25	0.55	0.59
20	3	5		0.20	0.70	0.58	99	6	5		0.17	0.38	0.26
21	3	1	3	0.34	0.70	0.58	100	6	4	2	0.10	0.60	0.34
22	3	1	3	0.39	1.22	0.70	101	6	5		0.35	0.17	0.64
23	3	4	1/4	0.44	1.16	0.66	102	6	5		0.16	0.21	0.56
24	3	1	3	0.36	1.32	0.66	103*	6	4	2	0.00	0.41	0.05
26	3	4	1/4	0.37	2.45	0.45	104	6	6	1/4	0.36	0.09	0.65
28	3	4	1/4	0.46	3.21	0.78	105	6	6	1/4	0.30	0.72	0.38
30	3	1	1/4	0.43	5.35	0.78	106	6	6	1/4	0.30	0.26	0.71
31	4	1	2	0.39	0.01	0.87	107	6	1	3	0.33	0.22	0.88
32	4	1	2	0.35	0.09	0.43	108	6	4	1/4	0.36	0.54	0.75
34	4	4	2	0.26	0.26	0.40	109	6	1	1/4	0.44	0.16	0.79
35	4	4	2	0.50	0.15	0.80	110	6	6	1/4	0.30	0.44	0.62
36	4	5		0.34	0.25	0.60	111	6	6	1/4	0.43	0.39	0.77
37	4	5		0.42	0.13	0.61	112	6	1	1/4	0.39	0.66	0.66
38	4	5		0.42	0.21	0.57	114	6	4	1/4	0.33	0.31	0.79
41	4	4	2	0.43	0.29	0.67	115	6	5		0.45	0.51	0.83

Table 44. Constructed-Response Item Analyses, Grade 5 Reading

Mean Item-Total Corr.: 0.52 Mean *p*-Value: 0.39

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
5		3	6	1/4	0.47	24.48	43.08	27.93	3.96		0.55	0.37
12		3	6	1/4	0.50	29.76	37.29	18.23	12.68		2.04	0.37
16		3	5		0.57	56.46	21.01	19.34			3.20	0.30
18		3	6	1/4	0.53	40.63	26.63	25.82	5.04		1.88	0.31
25		3	1	1/4	0.49	46.54	44.84	5.47			3.15	0.28
27		3	1	1/4	0.54	36.86	45.25	13.33			4.56	0.36
29		3	6	1/4	0.47	18.24	34.34	36.02	6.10		5.30	0.42
33		4	1	2	0.57	12.57	34.10	44.64	7.91		0.78	0.49
39		4	4	2	0.63	28.05	15.53	30.22	25.30		0.90	0.51
40		4	5		0.53	20.30	43.59	23.38	11.77		0.96	0.42
47		4	1	2	0.57	31.20	53.78	13.36			1.66	0.40
51		4	5		0.52	32.02	43.61	22.39			1.98	0.44
96		6	4	1/4	0.34	44.71	47.06	7.06			1.17	0.31
113		6	1	1/4	0.51	23.32	54.57	20.90			1.21	0.48

Table 45. Multiple-Choice Item Analyses, Grade 5 Writing

Mean Item-Total Corr.: 0.38 Mean *p*-Value: 0.72

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
52	5	3	8	0.43	0.08	0.73	72	5	2	5	0.31	0.32	0.54
53	5	3	8	0.36	0.11	0.67	73	5	3	7	0.35	2.81	0.81
54	5	3	7	0.08	0.35	0.49	75	5	3	8	0.49	0.34	0.82
55	5	2	7	0.44	0.11	0.73	76	5	3	8	0.41	0.84	0.88
56	5	3	8	0.36	0.58	0.77	77	5	3	7	0.23	1.18	0.90
57	5	3	8	0.42	0.80	0.90	78	5	3	8	0.41	0.51	0.81
58	5	2		0.31	0.38	0.50	79	5	3	8	0.37	0.70	0.66
59	5	2		0.38	0.28	0.87	80	5	2	5	0.23	0.55	0.52
60	5	2	7	0.29	0.35	0.61	81	5	3	7	0.48	1.40	0.74
61	5	2	8	0.49	0.32	0.73	82	5	3	8	0.36	0.76	0.66
62	5	2	7	0.41	0.70	0.83	83	5	3	8	0.44	0.95	0.85
63	5	3	7	0.45	0.38	0.86	84	5	3	8	0.42	1.17	0.67
64	5	2	5	0.35	0.28	0.58	85	5	2	5	0.24	0.95	0.37
65	5	3	7	0.41	0.36	0.86	86	5	3	7	0.26	1.34	0.86
66	5	3	7	0.41	0.83	0.69	87	5	3	7	0.40	1.31	0.68
67	5	2	5	0.45	0.56	0.67	88	5	3	7	0.42	1.51	0.92
68	5	3	7	0.42	0.46	0.86	89	5	3	7	0.38	1.48	0.61
69	5	3	7	0.43	0.47	0.76	90	5	2	5	0.23	1.74	0.45
70	5	2	5	0.43	0.30	0.70	91	5	2	5	0.40	1.78	0.59
71	5	2	5	0.43	0.34	0.77	92	5	3	7	0.46	2.11	0.87

Table 46. Constructed-Response Item Analyses, Grade 5 Writing

Mean Item-Total Corr.: 0.44 Mean *p*-Value: 0.72

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.10	0.93	99.07				0.00	0.99
2	A	2	3	8	0.48	48.39	51.40				0.21	0.51
2	B	2	3	8	0.34	32.71	67.09				0.21	0.67
2	C	2	3	7	0.38	29.07	70.72				0.21	0.71
2	D	2	3	8	0.34	50.77	49.02				0.21	0.49
2	E	2	3	7	0.45	14.78	85.02				0.21	0.85
2	F	2	3	7	0.43	31.53	68.26				0.21	0.68
3	A	2	2	6	0.62	0.28	1.32	17.33	50.67	30.24	0.17	0.77
3	B	2	2	6	0.67	0.00	3.57	20.56	46.49	29.20	0.18	0.75
3	C	2	3	6	0.44	1.17	7.09	91.56			0.17	0.95
74		5	2	5	0.51	0.25	6.92	34.82	44.97	12.10	0.95	0.65
93		5	2	5	0.48	0.72	5.47	33.12	46.81	10.05	3.85	0.63
116		5	2	5	0.51	0.23	3.88	33.36	49.43	12.39	0.70	0.67

Table 47. Multiple-Choice Item Analyses, Grade 5 Mathematics

Mean Item-Total Corr.: 0.39 Mean *p*-Value: 0.69

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	4/5		0.39	0.09	0.63	35	2	2		0.31	0.61	0.38
2	1	2	1	0.27	0.22	0.59	36	2	6		0.52	0.32	0.71
3	1	3	3	0.54	0.09	0.77	37	2	1		0.33	0.46	0.95
5	1	4/5		0.27	0.29	0.66	38	2	6		0.30	0.56	0.89
6	1	1	1	0.35	0.43	0.62	40	2	4/5		0.50	0.29	0.72
7	1	1	1	0.45	1.85	0.48	41	2	1		0.21	0.45	0.50
9	1	2	2	0.45	0.33	0.82	42	2	6		0.39	0.31	0.92
10	1	4/5		0.24	0.22	0.78	44	2	3	3	0.32	0.25	0.73
11	1	3	3	0.39	0.10	0.87	45	2	6		0.36	0.30	0.62
12	1	6		0.45	0.51	0.73	47	3	1	1	0.47	0.13	0.80
13	1	1		0.42	0.14	0.87	48	3	4/5		0.44	0.06	0.57
15	1	1	1	0.47	0.41	0.75	49	3	3	3	0.29	0.09	0.85
16	1	2		0.52	0.24	0.71	50	3	6		0.47	0.54	0.70
17	1	6		0.46	0.87	0.78	51	3	1	1	0.38	0.24	0.87
19	1	3	3	0.51	0.30	0.47	53	3	4/5		0.24	0.11	0.53
20	1	6		0.40	0.61	0.84	54	3	2		0.19	0.31	0.50
21	1	2		0.51	0.34	0.71	56	3	4/5		0.47	0.22	0.62
22	1	1	1	0.21	0.59	0.47	57	3	6		0.39	0.89	0.88
24	2	6	1	0.44	0.11	0.63	58	3	4/5		0.49	0.50	0.76
25	2	1	1	0.39	0.22	0.50	60	3	2	2	0.38	0.51	0.76
26	2	6		0.50	1.51	0.75	61	3	1		0.36	0.78	0.77
27	2	4/5		0.27	0.09	0.94	62	3	6		0.28	0.48	0.91
29	2	4/5		0.22	0.15	0.28	63	3	2	2	0.48	0.26	0.62
31	2	1	1	0.34	0.26	0.48	65	3	6	1	0.28	0.21	0.92
32	2	4/5		0.32	0.52	0.64	66	3	1	1	0.42	0.47	0.68
33	2	3		0.47	0.26	0.60	67	3	6		0.49	1.38	0.72
34	2	1	1	0.51	0.35	0.80	68	3	3	3	0.38	0.82	0.50

Table 48. Constructed-Response Item Analyses, Grade 5 Mathematics

Mean Item-Total Corr.: 0.58 Mean *p*-Value: 0.57

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4		1	4/5		0.59	10.89	40.77	48.07			0.27	0.68
8		1	3		0.45	1.35	64.87	15.48	17.99		0.31	0.50
14*		1	3		0.51	35.86	21.67	41.30			1.18	0.52
18		1	4/5		0.50	20.73	20.83	27.43	30.45		0.56	0.56
23		1	2	2	0.68	17.17	14.30	22.71	21.64	23.53	0.66	0.55
28		2	6	1	0.62	27.51	33.79	38.46			0.24	0.55
30		2	1		0.65	21.77	27.72	37.72	12.53		0.26	0.47
39		2	2	2	0.51	64.04	16.34	19.05			0.57	0.27
43		2	2	2	0.58	5.74	22.71	32.62	38.62		0.31	0.68
46		2	4/5		0.62	3.09	14.74	18.11	20.50	43.36	0.20	0.71
52		3	2	2	0.49	21.84	46.63	31.22			0.31	0.55
55		3	3		0.60	10.33	23.92	35.13	30.37		0.26	0.62
59		3	1		0.65	41.81	13.31	43.99			0.89	0.51
64		3	6	1	0.58	6.79	13.60	27.98	51.12		0.51	0.74
69		3	3	3	0.62	4.03	17.79	28.67	36.44	12.80	0.28	0.59

Table 49. Multiple-Choice Item Analyses, Grade 5 Science

Mean Item-Total Corr.: 0.31 Mean *p*-Value: 0.59

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	4		0.39	0.03	0.86	39	2	1/5	1	0.19	0.29	0.37
2	1	3		0.28	0.04	0.80	40	2	2		0.30	0.21	0.64
3	1	3		0.46	0.26	0.61	41	2	3		0.36	0.17	0.76
4	1	1/5		0.39	0.04	0.77	43	2	1/5	2	0.07	0.25	0.27
5	1	2		0.48	0.13	0.68	44	2	3		0.26	0.56	0.34
6	1	3		0.29	0.20	0.35	46	2	3		0.31	0.21	0.68
8	1	1/5	1	0.47	0.06	0.81	47	2	3		0.23	0.40	0.85
9	1	4		0.13	0.10	0.83	49	2	2		0.24	0.39	0.24
10	1	1/5	1	0.14	0.37	0.50	50	2	4		0.19	0.20	0.90
11	1	3		0.31	0.15	0.50	51	3	4		0.29	0.03	0.87
12	1	4		0.16	0.09	0.45	52	3	4		0.34	0.06	0.71
13	1	4		0.21	0.35	0.27	53	3	4		0.22	0.13	0.20
14	1	3		0.27	0.21	0.30	54	3	1/5		0.33	0.22	0.57
15	1	1/5	2	0.49	0.09	0.73	55	3	1/5	2	0.25	0.14	0.33
16	1	1/5	1	0.35	0.10	0.37	56	3	1/5	1	0.37	0.14	0.54
17	1	4		0.34	0.36	0.46	58	3	3		0.26	0.35	0.56
18	1	1/5		0.50	0.12	0.67	59	3	3		0.36	0.29	0.76
19	1	3		0.42	0.27	0.78	60	3	2		0.46	0.16	0.47
20	1	2		0.23	0.06	0.25	62	3	1/5	1	0.39	0.71	0.49
26	2	4		0.25	0.03	0.89	63	3	1/5	1	0.40	0.36	0.61
27	2	2		0.17	0.02	0.97	65	3	4		0.32	0.44	0.62
28	2	4		0.38	0.08	0.56	66	3	1/5	1	0.39	0.51	0.63
29	2	3		0.33	0.36	0.83	67	3	4		0.20	0.71	0.73
30	2	4		0.27	0.35	0.63	69	3	2		0.30	0.13	0.71
32	2	2		0.18	0.13	0.72	70	3	2		0.37	0.23	0.49
34	2	2		0.31	0.38	0.40	71	3	3		0.26	0.25	0.33
35	2	1/5	2	0.30	0.14	0.47	72	3	2		0.34	0.70	0.78
36	2	4		0.34	0.27	0.63	74	3	2		0.30	0.32	0.29
37	2	2		0.35	0.18	0.81							

Table 50. Constructed-Response Item Analyses, Grade 5 Science

Mean Item-Total Corr.: 0.48 Mean *p*-Value: 0.45

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
7		1	1/5	1	0.47	73.87	24.71				1.42	0.25
21		1	1/5	2	0.51	62.67	36.91				0.42	0.37
22		1	1/5	1	0.46	41.46	58.01				0.53	0.58
23		1	1/5	1	0.39	38.44	37.23	23.84			0.49	0.42
24		1	1/5	2	0.44	60.75	38.65				0.60	0.39
25		1	1/5	2	0.41	24.34	14.91	60.00			0.75	0.67
31		2	3		0.54	22.41	36.44	40.43			0.72	0.59
33		2	1/5		0.44	40.91	58.74				0.35	0.59
38		2	3		0.50	43.33	43.07	11.86			1.73	0.33
42		2	1/5	1	0.36	79.96	16.49	1.67			1.88	0.10
45		2	2		0.52	30.47	43.33	25.84			0.36	0.48
48		2	4		0.43	75.97	14.43	8.13			1.48	0.15
57		3	1/5	2	0.57	61.53	10.03	27.10			1.34	0.32
61		3	2		0.58	25.02	36.01	38.47			0.50	0.56
64		3	1/5	1	0.56	42.14	11.65	45.01			1.20	0.51
68		3	1/5		0.46	23.78	34.68	41.04			0.50	0.58
73		3	1/5	2	0.54	42.22	26.41	30.32			1.05	0.44
75		3	1/5	2	0.53	19.84	22.43	56.90			0.83	0.68

Table 51. Multiple-Choice Item Analyses, Grade 6 Reading

Mean Item-Total Corr.: 0.37 Mean *p*-Value: 0.69

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
4	3	1	1/4	0.27	0.03	0.92	38	4	4	1/4	0.41	0.35	0.78
5	3	1	1/4	0.34	0.06	0.90	39	4	5		0.34	0.29	0.61
6	3	4	1/4	0.33	0.14	0.87	41	4	1	2	0.19	0.10	0.38
7	3	6	1/4	0.32	0.23	0.68	42	4	5		0.30	0.28	0.73
9	3	6	1/4	0.23	0.15	0.27	43	4	5		0.26	0.18	0.64
10	3	4	1/4	0.29	0.25	0.67	44	4	6	2	0.24	0.27	0.30
11	3	6	1/4	0.40	0.17	0.79	47	4	1	3	0.21	0.62	0.44
13*	3	6	1/4	0.15	0.10	0.44	48	4	4	2	0.22	0.33	0.54
14	3	4	1/4	0.50	0.34	0.73	50	4	5		0.33	1.21	0.68
15	3	5		0.46	0.15	0.88	51	4	5		0.38	0.60	0.64
16	3	5		0.47	0.22	0.64	52	4	5		0.35	0.68	0.54
17	3	4	1/4	0.45	0.19	0.75	53	4	1	2	0.39	0.98	0.53
18	3	1	3	0.35	0.20	0.71	54	4	5		0.34	0.70	0.76
20	3	4	1/4	0.38	0.28	0.55	55	4	1	3	0.20	0.74	0.50
22	3	4	1/4	0.41	0.48	0.88	98	6	1	3	0.37	0.03	0.58
23	3	6	1/4	0.45	0.34	0.87	99	6	1	3	0.43	0.14	0.67
24	3	4	2	0.52	0.72	0.86	100	6	6	1/4	0.37	0.15	0.94
25	3	4	2	0.42	1.01	0.59	101	6	4	1/4	0.33	0.24	0.83
26	3	5		0.40	0.90	0.69	103	6	6	1/4	0.37	0.15	0.64
28	3	1	2	0.51	1.37	0.67	104	6	1	1/4	0.41	0.30	0.74
30	3	5		0.27	4.94	0.41	106	6	1	3	0.30	0.93	0.70
31	4	1	1/4	0.48	0.07	0.78	107	6	1	3	0.49	0.33	0.74
32	4	1	3	0.28	0.09	0.63	108	6	4	1/4	0.47	0.98	0.72
33	4	1	1/4	0.50	0.18	0.84	111	6	1	2	0.43	0.22	0.79
34	4	6	1/4	0.48	0.16	0.75	112	6	4	2	0.41	0.43	0.56
35	4	5		0.39	0.19	0.87	113	6	1	2	0.56	0.59	0.74
36	4	1	1/4	0.44	0.37	0.78	114	6	1	3	0.36	0.18	0.63
37	4	4	1/4	0.52	0.20	0.87	115	6	1	3	0.44	0.22	0.90

Table 52. Constructed-Response Item Analyses, Grade 6 Reading

Mean Item-Total Corr.: 0.49 Mean *p*-Value: 0.41

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
8		3	1	1/4	0.36	53.88	33.87	9.56			2.70	0.26
12		3	6	1/4	0.52	19.50	37.60	33.71	8.28		0.91	0.43
19		3	1	1/4	0.49	34.89	52.24	11.56			1.32	0.38
21		3	1	1/4	0.52	27.42	50.13	20.98			1.47	0.46
27		3	4	2	0.52	26.74	45.27	21.20	3.18		3.62	0.32
29		3	5		0.60	22.20	23.29	25.90	23.66		4.95	0.49
40		4	6	1/4	0.50	47.00	41.74	10.05			1.20	0.31
45		4	5		0.53	8.76	22.72	67.00			1.52	0.78
46		4	6	2	0.54	34.06	44.41	17.32	2.39		1.83	0.29
49		4	5		0.43	40.55	29.38	27.86			2.22	0.43
102		6	6	1/4	0.46	15.28	40.63	36.17	7.04		0.88	0.45
105		6	1	1/4	0.38	46.37	40.88	7.67	3.78		1.30	0.23
109		6	4	2	0.54	46.45	28.77	22.77			2.01	0.37
110		6	4	2	0.41	16.30	65.54	16.68			1.49	0.49

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Table 53. Multiple-Choice Item Analyses, Grade 6 Writing

Mean Item-Total Corr.: 0.37 Mean *p*-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
56	5	3	7	0.39	0.16	0.83	77	5	3	7	0.31	0.32	0.61
57	5	2	5	0.38	0.11	0.71	78	5	3	7	0.34	0.35	0.68
58	5	2	5	0.45	0.18	0.84	79	5	3	8	0.44	0.81	0.70
59	5	2		0.16	0.83	0.46	80	5	3	7	0.20	1.28	0.70
60	5	2	5	0.28	0.24	0.43	81	5	3	8	0.41	0.94	0.74
61	5	3	8	0.47	0.48	0.87	82	5	2	8	0.36	0.53	0.69
62	5	3	7	0.36	0.51	0.90	83	5	2	5	0.29	0.50	0.42
63	5	2	5	0.42	0.31	0.90	84	5	3	8	0.32	0.59	0.60
64	5	3	7	0.29	0.56	0.68	85	5	3	7	0.47	1.16	0.80
65	5	3	7	0.44	0.34	0.88	86	5	3	8	0.50	0.94	0.85
66	5	3	7	0.45	0.76	0.83	87	5	2	5	0.35	0.80	0.61
67	5	3	7	0.29	1.16	0.43	88	5	3	7	0.43	1.16	0.66
68	5	3	7	0.45	1.41	0.81	89	5	2	5	0.35	1.02	0.63
69	5	2	5	0.21	0.25	0.49	90	5	3	7	0.46	1.69	0.69
70	5	2	5	0.38	0.24	0.72	91	5	2	5	0.38	1.34	0.54
72	5	3	7	0.37	0.36	0.74	92	5	2	7	0.34	1.60	0.61
73	5	3	7	0.11	0.52	0.42	93	5	3	7	0.47	2.26	0.85
74	5	3	7	0.51	0.38	0.82	94	5	2	5	0.25	1.59	0.35
75	5	3	8	0.46	1.36	0.88	95	5	2	8	0.54	1.75	0.71
76	5	3	7	0.32	0.54	0.55	96	5	3	7	0.45	2.23	0.70

Table 54. Constructed-Response Item Analyses, Grade 6 Writing

Mean Item-Total Corr.: 0.40 Mean *p*-Value: 0.70

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.10	0.64	99.37				0.00	0.99
2	A	2	3	7	0.12	2.87	96.98				0.15	0.97
2	B	2	3	8	0.36	25.13	74.72				0.15	0.75
2	C	2	3	8	0.45	18.32	81.52				0.16	0.82
2	D	2	3	8	0.37	60.17	39.66				0.17	0.40
2	E	2	3	7	0.51	36.21	63.64				0.15	0.64
2	F	2	3	8	0.19	91.34	8.50				0.16	0.09
3	A	2	2	6	0.57	0.49	1.34	25.08	45.42	27.49	0.18	0.74
3	B	2	2	6	0.60	0.00	2.70	28.63	43.00	25.48	0.18	0.73
3	C	2	3	6	0.37	0.44	5.11	94.27			0.18	0.97
71		5	2	5	0.52	0.50	4.02	32.22	52.12	10.12	1.01	0.66
97		5	2	5	0.51	0.91	5.95	28.31	46.03	14.67	4.14	0.65
116		5	2	5	0.58	1.34	6.57	29.27	41.17	20.60	1.06	0.68

Table 55. Multiple-Choice Item Analyses, Grade 6 Mathematics

Mean Item-Total Corr.: 0.42 Mean *p*-Value: 0.61

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	1	1	0.42	0.10	0.73	32	2	6		0.38	0.48	0.84
2	1	2		0.36	0.10	0.90	33	2	4/5		0.34	0.29	0.73
3	1	2		0.45	0.17	0.61	34	2	4/5		0.39	0.28	0.35
5	1	6	1	0.28	0.12	0.60	35	2	2	2	0.25	0.33	0.57
7	1	6		0.36	0.68	0.86	36	2	2	2	0.40	0.37	0.58
8	1	1		0.63	0.10	0.55	38	2	1		0.51	0.26	0.48
9	1	6		0.41	0.44	0.85	39	2	1	1	0.47	0.24	0.70
10	1	3	2	0.45	0.12	0.46	41	3	2	2	0.50	0.07	0.67
11	1	1		0.39	0.17	0.73	42	3	3		0.50	0.20	0.57
13	1	1		0.43	0.28	0.60	43	3	4/5		0.49	0.16	0.58
14	1	3		0.57	0.15	0.68	44	3	6		0.42	0.67	0.61
15	1	3		0.49	0.33	0.68	46	3	4/5	3	0.45	0.25	0.67
17	1	4/5		0.46	0.26	0.42	48	3	1		0.54	0.25	0.53
18	1	4/5		0.59	0.33	0.54	49	3	4/5	3	0.42	0.44	0.72
19	1	4/5	3	0.29	0.61	0.21	50	3	6		0.38	1.07	0.83
21	2	4/5		0.36	0.07	0.73	52	3	3		0.45	0.94	0.63
22	2	3		0.37	0.06	0.65	53	3	4/5		0.24	0.42	0.63
23	2	6	1	0.44	0.14	0.74	54	3	4/5	3	0.45	0.50	0.49
25	2	6		0.42	1.13	0.75	55	3	2	2	0.37	0.76	0.47
26	2	4/5	3	0.37	0.17	0.72	57	3	1		0.31	0.30	0.30
27	2	1		0.29	0.54	0.44	58	3	3		0.39	0.48	0.59
29	2	6		0.48	0.38	0.81	59	3	1	1	0.37	0.45	0.26
31	2	2		0.45	0.27	0.36							

Table 56. Constructed-Response Item Analyses, Grade 6 Mathematics

Mean Item-Total Corr.: 0.58 Mean *p*-Value: 0.57

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4		1	3		0.51	26.93	20.80	51.56			0.71	0.62
6		1	3		0.50	0.88	57.46	16.14	25.36		0.16	0.55
12		1	1	1	0.66	21.20	24.56	36.32	16.20		1.72	0.49
16		1	4/5	3	0.53	25.55	48.48	25.01			0.97	0.49
20		1	2	2	0.69	7.95	11.50	19.53	49.75	10.91	0.36	0.61
24		2	3		0.57	19.49	13.64	66.16			0.71	0.73
28		2	2	2	0.59	2.10	17.62	29.24	50.81		0.23	0.76
30		2	4/5	3	0.64	17.46	30.37	26.99	24.56		0.62	0.53
37		2	4/5		0.44	7.87	18.48	73.38			0.27	0.83
40		2	3		0.56	23.05	40.82	19.78	7.63	8.30	0.41	0.34
45		3	6	1	0.54	55.01	23.47	21.16			0.36	0.33
47		3	6	1	0.50	29.09	18.20	52.21			0.51	0.61
51		3	2	2	0.67	18.07	12.92	44.92	23.71		0.38	0.58
56		3	4/5	3	0.63	27.87	16.90	22.24	32.61		0.39	0.53
60		3	1	1	0.75	7.05	18.95	23.58	27.81	22.37	0.24	0.60

Table 57. Multiple-Choice Item Analyses, Grade 7 Reading

Mean Item-Total Corr.: 0.37 Mean *p*-Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
5	3	1	2	0.39	0.12	0.77	37	4	1	3	0.48	0.13	0.82
6*	3	1	2	-0.05	0.16	0.23	38	4	4	1	0.46	0.28	0.81
7	3	1	3	0.41	0.14	0.47	39	4	5		0.40	0.08	0.86
8	3	4	2	0.27	0.20	0.79	41	4	5		0.32	0.53	0.63
9	3	5		0.25	0.16	0.69	42	4	6	1	0.29	0.16	0.76
10	3	5		0.30	0.32	0.90	43	4	1	3	0.50	0.22	0.90
11	3	6	2	0.38	0.12	0.69	44	4	5		0.47	0.34	0.88
14	3	1	1	0.33	0.22	0.72	46	4	6	1	0.44	0.42	0.75
15	3	4	1	0.47	0.37	0.90	47	4	6	1	0.52	0.68	0.88
16	3	4	1	0.32	0.69	0.68	49	4	5		0.54	0.49	0.79
17	3	5		0.09	0.64	0.34	50	4	1	3	0.38	0.54	0.59
18	3	1	3	0.50	0.36	0.62	51	4	6	1	0.55	0.71	0.78
19	3	5		0.33	0.37	0.68	95	6	1	3	0.46	0.09	0.89
20	3	5		0.42	0.61	0.71	96	6	4	2	0.40	0.26	0.81
21	3	4	4	0.50	0.45	0.71	97	6	5		0.26	0.18	0.83
22	3	6	4	0.26	0.48	0.56	98	6	5		0.31	0.68	0.57
23	3	6	4	0.37	0.57	0.68	99	6	1	2	0.26	0.31	0.48
25	3	6	4	0.27	1.03	0.36	100	6	4	2	0.27	0.61	0.63
26	3	4	4	0.50	1.06	0.83	101	6	1	2	0.48	0.56	0.72
27	3	4	4	0.29	1.09	0.61	102	6	4	2	0.47	0.51	0.90
28	3	1	2	0.38	1.70	0.77	103	6	4	2	0.40	0.37	0.68
29	3	1	3	0.36	1.77	0.74	104	6	5		0.41	0.18	0.78
30	3	1	3	0.33	2.04	0.84	106	6	1	2	0.49	0.69	0.76
31	3	4	2	0.33	1.95	0.72	110	6	1	3	0.38	0.25	0.57
32	3	5		0.39	2.02	0.64	111	6	4	4	0.30	0.36	0.74
33	4	6	1	0.40	0.16	0.71	112	6	6	4	0.27	0.48	0.68
34	4	1	1	0.38	0.15	0.80	113	6	5		0.51	0.29	0.62
36	4	1	3	0.29	0.35	0.76	114	6	5		0.35	0.75	0.60

Table 58. Constructed-Response Item Analyses, Grade 7 Reading

Mean Item-Total Corr.: 0.48 Mean *p*-Value: 0.44

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4		3	1	2	0.47	12.01	53.73	29.96	3.46		0.84	0.41
12		3	6	1	0.49	26.81	46.15	25.91			1.12	0.49
13		3	6	1	0.57	20.61	15.72	62.23			1.44	0.70
24		3	6	4	0.49	16.97	55.60	17.95	5.71	1.60	2.18	0.29
35		4	1	1	0.34	39.52	45.29	9.43	4.75		1.00	0.26
40		4	4	1	0.35	52.23	35.61	9.70			2.46	0.28
45		4	5		0.53	14.34	17.57	64.89			3.20	0.74
48		4	4	1	0.61	32.68	38.13	24.98			4.21	0.44
52		4	1	1	0.56	36.75	38.66	15.85	5.44		3.29	0.29
105		6	4	2	0.47	18.74	52.31	23.93	2.85		2.17	0.36
107		6	5		0.58	14.45	20.05	29.52	32.66		3.32	0.59
108		6	1	4	0.50	25.43	42.10	30.95			1.52	0.52
109		6	1	4	0.38	30.96	45.67	21.95			1.42	0.45
115		6	6	4	0.37	36.62	50.29	11.62			1.47	0.37

Table 59. Multiple-Choice Item Analyses, Grade 7 Writing

Mean Item-Total Corr.: 0.38 Mean *p*-Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
53	5	3	7	0.28	0.08	0.80	73	5	2		0.41	0.79	0.67
54	5	3	7	0.18	0.33	0.63	75	5	3	7	0.37	0.32	0.79
55	5	2		0.22	0.30	0.54	76	5	3	7	0.20	0.47	0.31
56	5	3	7	0.34	0.11	0.94	77	5	3	7	0.25	0.67	0.69
57	5	2	8	0.42	0.19	0.55	78	5	3	7	0.34	0.37	0.60
58	5	3	7	0.41	0.77	0.89	79	5	3	7	0.43	0.37	0.93
59	5	3	7	0.38	0.34	0.82	80	5	3	8	0.36	0.48	0.64
60	5	3	7	0.45	0.44	0.70	81	5	2	5	0.26	0.42	0.35
61	5	3	8	0.45	0.35	0.81	82	5	2	5	0.47	0.51	0.78
62	5	2	5	0.43	0.28	0.80	83	5	3	8	0.47	0.79	0.74
63	5	2	8	0.22	0.53	0.82	84	5	3	7	0.45	1.02	0.89
64	5	2	8	0.49	0.30	0.89	85	5	2		0.46	0.60	0.81
65	5	3	7	0.28	0.79	0.53	86	5	2	5	0.44	0.71	0.75
66	5	2	7	0.33	0.60	0.84	87	5	3	7	0.49	0.72	0.70
67	5	3	8	0.49	0.30	0.81	88	5	3	8	0.43	0.94	0.70
68	5	2	5	0.22	0.33	0.63	89	5	3	7	0.50	1.32	0.77
69	5	3	7	0.51	0.42	0.75	90	5	3	8	0.25	0.89	0.27
70	5	2	5	0.24	0.21	0.56	91	5	2	5	0.33	1.03	0.52
71	5	3	7	0.49	0.29	0.79	92	5	2		0.47	0.95	0.76
72	5	3	7	0.45	0.81	0.75	93	5	3	7	0.57	1.20	0.72

Table 60. Constructed-Response Item Analyses, Grade 7 Writing

Mean Item-Total Corr.: 0.40 Mean *p*-Value: 0.59

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.11	0.94	99.06				0.00	0.99
2	A	2	3	8	0.43	35.18	64.70				0.12	0.65
2	B	2	3	8	0.33	57.02	42.85				0.12	0.43
2	C	2	3	7	0.37	65.93	33.95				0.12	0.34
2	D	2	3	7	0.12	97.85	2.03				0.12	0.02
2	E	2	3	8	0.19	37.70	62.18				0.12	0.62
2	F	2	3	8	0.44	36.98	62.89				0.13	0.63
3	A	2	2	6	0.57	12.18	6.65	39.82	29.84	11.36	0.15	0.55
3	B	2	2	6	0.59	0.00	7.78	47.12	32.39	12.55	0.16	0.62
3	C	2	3	6	0.43	0.45	8.44	90.96			0.16	0.95
74		5	2	5	0.54	0.27	4.23	33.40	45.94	15.05	1.12	0.67
94		5	2	5	0.51	0.47	4.84	42.21	43.48	6.16	2.84	0.61
116		5	2	5	0.53	0.39	5.75	41.95	38.10	12.42	1.39	0.63

Table 61. Multiple-Choice Item Analyses, Grade 7 Mathematics

Mean Item-Total Corr.: 0.37 Mean *p*-Value: 0.50

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	2		0.33	0.36	0.49	32	2	1/6	1	0.43	0.26	0.77
2	1	1/6		0.25	0.09	0.89	33	2	2		0.45	0.33	0.49
4	1	4/5		0.56	0.20	0.50	34	2	4/5	2	0.13	0.52	0.15
5	1	1/6		0.39	0.25	0.53	36	2	3		0.52	0.53	0.71
7	1	3		0.40	0.29	0.77	37	2	4/5	2	0.47	0.53	0.28
8	1	2		0.25	0.23	0.38	38	2	2		0.49	0.62	0.73
9	1	3		0.32	0.28	0.23	39	2	3		0.47	0.46	0.63
11	1	1/6		0.40	0.42	0.63	41	3	2		0.29	0.12	0.60
12	1	4/5		0.28	0.23	0.28	42	3	1/6		0.37	0.24	0.36
13	1	1/6		0.46	0.29	0.64	44	3	1/6		0.49	0.63	0.58
15	1	4/5	2	0.18	0.55	0.29	45	3	4/5	2	0.27	0.16	0.65
16	1	1/6		0.44	0.76	0.49	47	3	2		0.48	0.35	0.58
17	1	2		0.36	0.60	0.30	48	3	3		0.47	0.40	0.47
18	1	3		0.27	0.63	0.48	49	3	3		0.33	0.71	0.52
19	1	4/5	2	0.45	0.90	0.40	51	3	4/5		0.47	0.57	0.57
21	2	3		0.35	0.12	0.47	52	3	3		0.21	0.63	0.42
22	2	1/6		0.28	0.33	0.48	53	3	4/5		0.47	0.52	0.62
24	2	1/6		0.44	0.30	0.39	55	3	1/6	1	0.46	0.26	0.30
25	2	4/5	2	0.14	0.39	0.34	56	3	2		0.40	0.57	0.79
27	2	1/6		0.35	0.46	0.84	57	3	2		0.33	0.20	0.30
28	2	1/6	1	0.38	0.28	0.39	58	3	4/5		0.49	0.25	0.62
29	2	1/6		0.24	0.53	0.39	59	3	4/5		0.22	0.43	0.36
31	2	1/6		0.46	0.20	0.63							

Table 62. Constructed-Response Item Analyses, Grade 7 Mathematics

Mean Item-Total Corr.: 0.57 Mean *p*-Value: 0.46

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
3		1	4/5		0.56	58.89	4.30	36.51			0.31	0.39
6		1	2		0.63	8.37	15.15	43.93	32.42		0.14	0.67
10		1	4/5	2	0.35	61.46	26.39	10.34			1.81	0.24
14		1	1/6	1	0.72	27.35	19.47	23.10	29.79		0.29	0.52
20		1	1/6	1	0.65	31.40	41.67	9.83	5.33	9.09	2.69	0.28
23		2	2		0.53	24.79	1.19	73.39			0.63	0.74
26		2	2		0.62	19.09	13.49	36.88	30.20		0.34	0.59
30		2	1/6	1	0.54	59.30	5.73	33.26			1.71	0.36
35		2	3	1	0.64	28.97	45.42	18.21	6.44		0.96	0.34
40		2	4/5	2	0.67	33.06	10.07	23.85	16.93	15.30	0.80	0.42
43		3	1/6	1	0.59	37.95	30.14	31.54			0.37	0.47
46		3	4/5	2	0.62	24.77	15.05	21.78	38.06		0.34	0.58
50		3	3		0.32	12.96	53.44	33.04			0.56	0.60
54		3	4/5	2	0.54	28.85	39.97	23.93	6.29		0.96	0.36
60		3	3		0.62	23.58	29.44	20.88	21.40	3.43	1.28	0.37

Table 63. Multiple-Choice Item Analyses, Grade 8 Reading

Mean Item-Total Corr.: 0.34 Mean *p*-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
5	3	1	2	0.37	0.12	0.81	38	4	4	2	0.37	0.14	0.69
6*	3	1	2	-0.02	0.24	0.22	39	4	5		0.37	0.22	0.59
7	3	1	3	0.45	0.30	0.57	40	4	5		0.40	0.21	0.88
8	3	4	2	0.26	0.18	0.81	41	4	1	2	0.46	0.49	0.62
9	3	5		0.25	0.15	0.71	43	4	5		0.35	0.13	0.82
11	3	6	1	0.43	0.13	0.91	44	4	5		0.35	0.26	0.69
12	3	1	1	0.25	0.15	0.83	46	4	4	2	0.34	0.20	0.84
13	3	4	1	0.21	0.30	0.75	47	4	4	2	0.45	0.19	0.78
14	3	1	3	0.42	0.16	0.81	49	4	6	1	0.44	0.43	0.92
15	3	1	3	0.45	0.19	0.75	51	4	5		0.49	0.32	0.84
16	3	1	1	0.40	0.27	0.83	52	4	1	3	0.38	0.39	0.63
17	3	4	1	0.31	0.31	0.37	53	4	6	1	0.49	1.27	0.80
18	3	4	1	0.33	0.41	0.78	97	6	5		0.32	0.08	0.58
21	3	4	2	0.36	0.89	0.77	98	6	5		0.12	0.11	0.55
22	3	1	3	0.46	0.97	0.89	99	6	5		0.37	0.17	0.53
23	3	1	3	0.45	1.10	0.73	101	6	6	1	0.23	0.23	0.75
24	3	5		0.36	1.25	0.65	102	6	1	1	0.40	0.16	0.75
25	3	5		0.26	1.45	0.40	103	6	4	4	0.36	0.11	0.54
27	3	1	3	0.48	3.29	0.73	104	6	6	4	0.21	0.21	0.34
28	3	6	4	0.35	3.56	0.54	105	6	4	4	0.34	0.47	0.85
29	3	1	3	0.36	3.90	0.50	106	6	6	4	0.09	0.25	0.31
31	3	1	4	0.46	5.92	0.78	107	6	6	4	0.17	0.28	0.41
32	3	5		0.37	6.09	0.76	108	6	6	4	0.27	0.23	0.56
33	3	4	4	0.48	6.65	0.69	111	6	4	1	0.17	0.35	0.29
34	3	6	4	0.39	6.71	0.62	112	6	5		0.24	0.14	0.68
35	4	1	3	0.24	0.03	0.90	113	6	6	1	0.16	0.56	0.66
36	4	1	3	0.32	0.08	0.63	114	6	6	1	0.42	0.20	0.77
37	4	4	2	0.30	0.14	0.89	115	6	1	1	0.49	0.21	0.82

Table 64. Constructed-Response Item Analyses, Grade 8 Reading

Mean Item-Total Corr.: 0.52 Mean *p*-Value: 0.46

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4		3	1	2	0.47	8.71	50.44	34.72	5.32		0.81	0.45
10		3	4	2	0.49	18.58	44.17	35.89			1.36	0.58
19		3	5		0.53	13.44	36.06	45.98			4.52	0.64
20		3	1	2	0.51	8.48	40.90	7.33	40.17		3.12	0.59
26		3	6	2	0.54	10.49	33.68	33.99	16.34		5.50	0.50
30		3	6	4	0.63	20.28	34.33	27.82	8.00		9.57	0.38
42		4	5		0.56	49.16	9.88	35.37			5.59	0.40
45		4	1	2	0.48	43.03	25.14	30.31			1.52	0.43
48		4	5		0.60	12.04	25.25	41.94	17.97		2.81	0.54
50		4	4	1	0.60	28.31	39.79	27.53			4.37	0.47
54		4	1	1	0.56	27.45	40.49	20.49	7.81		3.76	0.35
100		6	4	1	0.35	28.96	43.82	18.00	7.11		2.11	0.34
109		6	6	4	0.44	47.48	25.75	23.97			2.80	0.37
110		6	1	1	0.44	38.97	30.76	27.87			2.40	0.43

Table 65. Multiple-Choice Item Analyses, Grade 8 Writing

Mean Item-Total Corr.: 0.38 Mean *p*-Value: 0.73

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
55	5	3	7	0.37	0.07	0.77	76	5	3	7	0.43	1.17	0.92
56	5	2		0.43	0.09	0.71	77	5	2	5	0.33	0.17	0.92
57	5	2	5	0.11	0.09	0.51	78	5	3	7	0.39	0.24	0.62
58	5	3	7	0.41	0.20	0.89	79	5	3	7	0.48	0.34	0.84
59	5	2		0.09	0.30	0.89	80	5	2	5	0.43	0.26	0.77
60	5	3	7	0.33	0.24	0.94	81	5	3	7	0.41	0.40	0.83
61	5	2	5	0.21	0.22	0.58	82	5	3	7	0.33	0.46	0.71
62	5	3	8	0.48	1.05	0.84	83	5	2	7	0.36	0.31	0.53
63	5	3	7	0.39	0.39	0.64	84	5	2		0.38	0.85	0.64
64	5	3	7	0.22	0.40	0.51	85	5	3	7	0.46	0.55	0.77
65	5	3	7	0.34	0.33	0.62	86	5	3	7	0.51	0.52	0.65
66	5	2	5	0.36	0.17	0.73	87	5	2	5	0.30	0.49	0.41
67	5	2	7	0.35	0.18	0.51	88	5	3	8	0.51	0.81	0.86
68	5	3	7	0.46	0.34	0.83	89	5	3	8	0.47	0.43	0.87
69	5	3	8	0.31	0.57	0.66	90	5	3	7	0.31	1.34	0.52
70	5	3	7	0.50	0.27	0.85	91	5	2		0.43	0.64	0.72
71	5	3	7	0.47	0.49	0.87	92	5	3	7	0.51	0.77	0.82
73	5	3	8	0.13	0.23	0.72	93	5	2	7	0.50	0.63	0.76
74	5	3	8	0.34	0.25	0.80	94	5	2	7	0.45	0.98	0.54
75	5	3	8	0.38	0.54	0.77	95	5	2	5	0.51	0.81	0.70

Table 66. Constructed-Response Item Analyses, Grade 8 Writing

Mean Item-Total Corr.: 0.43 Mean *p*-Value: 0.67

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.10	0.91	99.09				0.00	0.99
2	A	2	3	7	0.08	9.63	90.27				0.11	0.90
2	B	2	3	8	0.44	35.71	64.19				0.11	0.64
2	C	2	3	7	0.41	55.05	44.84				0.11	0.45
2	D	2	3	8	0.43	28.18	71.71				0.11	0.72
2	E	2	3	8	0.38	71.28	28.61				0.11	0.29
2	F	2	3	7	0.46	51.37	48.52				0.11	0.49
3	A	2	2	6	0.63	0.83	4.66	38.03	42.44	13.95	0.10	0.66
3	B	2	2	6	0.64	0.00	5.53	39.04	41.32	14.00	0.11	0.66
3	C	2	3	6	0.41	0.33	6.79	92.77			0.10	0.96
72		5	2	5	0.53	0.11	4.42	42.21	43.47	9.04	0.75	0.64
96		5	2	5	0.55	0.40	11.14	35.96	37.10	12.00	3.40	0.61
116		5	2	5	0.52	0.20	3.65	28.86	46.58	19.32	1.39	0.70

Table 67. Multiple-Choice Item Analyses, Grade 8 Mathematics

Mean Item-Total Corr.: 0.35 Mean *p*-Value: 0.49

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	3		0.35	0.14	0.43	31	2	4/5	2	0.29	0.30	0.51
2	1	4/5		-0.01	0.11	0.41	33	2	1/6		0.47	0.49	0.35
3	1	1/6		0.22	0.07	0.93	34	2	2		0.47	0.30	0.30
5	1	3		0.50	0.13	0.51	35	2	3		0.34	0.25	0.65
6	1	2		0.37	0.28	0.56	37	2	1/6		0.51	0.33	0.45
8	1	1/6		0.47	0.32	0.60	38	2	4/5	3	0.46	0.48	0.39
9	1	4/5	3	0.57	0.15	0.42	39	2	2		0.27	0.83	0.44
11	1	3		0.24	0.22	0.46	41	3	2	1	0.28	0.08	0.39
12	1	2		0.41	0.20	0.56	42*	3	4/5	3	0.04	0.35	0.12
13	1	4/5	2	0.59	0.32	0.41	43	3	1/6	2	0.39	0.24	0.45
15	1	1/6		0.13	0.44	0.30	45	3	2		0.34	0.12	0.84
16	1	2	1	0.39	0.22	0.38	46*	3	4/5	2	0.19	0.46	0.39
17	1	1/6	2	0.26	0.60	0.45	48	3	2		0.49	0.27	0.69
18	1	3		0.33	0.36	0.30	49	3	4/5		0.26	0.26	0.68
19	1	3		0.33	0.29	0.85	51	3	3		0.28	0.56	0.55
21	2	2		0.33	0.07	0.45	52	3	1/6		0.38	0.56	0.42
22	2	4/5	3	0.53	0.25	0.60	53	3	3	2	0.27	0.22	0.40
23	2	1/6		0.21	0.25	0.64	54	3	2		0.43	0.28	0.45
25	2	3		0.49	0.16	0.54	56	3	1/6		0.56	0.36	0.49
26	2	1/6		0.41	0.42	0.76	57	3	4/5	3	0.31	0.26	0.56
27	2	2	1	0.48	0.18	0.53	58*	3	4/5	3	0.07	0.27	0.31
29	2	4/5	2	0.29	0.15	0.46	59	3	4/5		0.57	0.36	0.52
30	2	4/5	3	0.31	0.28	0.28							

Table 68. Constructed-Response Item Analyses, Grade 8 Mathematics

Mean Item-Total Corr.: 0.59 Mean *p*-Value: 0.44

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4		1	4/5	2	0.61	52.31	4.44	42.83			0.42	0.45
7		1	3		0.59	13.78	25.69	47.58	12.17		0.78	0.52
10		1	2	1	0.57	28.04	22.89	46.11			2.96	0.58
14		1	4/5		0.55	21.81	20.69	41.70	14.93		0.87	0.50
20		1	1/6	2	0.73	41.67	17.32	15.17	15.80	7.89	2.15	0.32
24		2	1/6	2	0.35	43.55	39.22	16.77			0.46	0.36
28		2	1/6	2	0.67	27.09	31.87	22.76	17.20		1.07	0.43
32		2	2	1	0.63	26.88	50.87	21.42			0.84	0.47
36		2	2	1	0.58	41.73	28.72	16.63	11.72		1.20	0.32
40		2	4/5	3	0.66	23.41	10.47	24.38	20.03	21.08	0.62	0.51
44		3	1/6		0.52	54.34	5.52	38.70			1.44	0.41
47		3	3		0.57	14.29	19.27	43.70	22.02		0.72	0.58
50		3	3	1	0.62	65.65	21.22	11.92			1.21	0.23
55		3	4/5	3	0.55	13.07	53.51	23.46	9.12		0.83	0.43
60		3	2	1	0.63	2.87	33.14	34.22	16.38	12.82	0.57	0.50

Table 69. Multiple-Choice Item Analyses, Grade 8 Science

Mean Item-Total Corr.: 0.32 Mean *p*-Value: 0.56

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	4	6	0.44	0.03	0.80	44	2	1/5	2	0.39	0.21	0.69
2	1	4	6	0.42	0.06	0.76	45	2	4		0.07	0.22	0.20
3	1	3	5	0.30	0.12	0.65	46	2	4	6	0.27	0.18	0.63
4	1	2	3	0.35	0.07	0.58	47	2	3	5	0.35	0.35	0.45
5	1	1/5	2	0.37	0.13	0.51	49	2	1/5	1	0.33	0.36	0.50
6	1	4		0.37	0.08	0.60	50	2	1/5	1	0.37	0.15	0.58
7	1	1/5		0.36	0.16	0.45	51	2	2	3	0.36	0.59	0.62
8	1	2		0.25	0.13	0.41	52	2	4	6	0.46	0.92	0.67
9	1	1/5	2	0.40	0.13	0.48	54	2	1/5	1	0.40	0.23	0.44
10	1	3	5	0.19	0.27	0.32	55	2	1/5	2	0.21	0.20	0.40
11	1	4		0.11	0.07	0.55	56	3	1/5	2	0.33	0.10	0.72
13	1	1/5	2	0.43	0.06	0.60	57	3	4	6	0.35	0.15	0.80
14	1	2	3	0.31	0.11	0.58	58	3	1/5	1	0.27	0.43	0.53
15	1	2	3	0.29	0.22	0.49	59	3	4	6	0.22	0.30	0.44
16	1	2		0.13	0.22	0.30	60	3	2	3	0.29	0.21	0.53
17	1	1/5	1	0.41	0.12	0.47	62	3	4		0.34	0.17	0.79
18	1	4		0.30	0.07	0.55	63	3	2		0.44	0.30	0.48
26	2	2	3	0.30	0.02	0.80	65	3	1/5	1	0.42	0.13	0.62
27	2	2		0.43	0.04	0.78	66	3	1/5	1	0.21	0.78	0.33
28	2	4	6	0.38	0.50	0.43	68	3	3	5	0.19	0.49	0.75
29	2	1/5	2	0.38	0.07	0.56	69	3	4	6	0.28	0.21	0.35
31	2	2		0.42	0.36	0.65	70	3	1/5	2	0.30	0.45	0.67
32	2	3		0.19	0.19	0.36	71	3	4	6	0.40	0.50	0.61
34	2	3		0.36	0.44	0.56	73	3	3		0.46	0.32	0.78
36	2	1/5	1	0.21	0.20	0.43	74	3	1/5	2	0.24	0.39	0.45
37	2	2		0.38	0.23	0.60	76	3	1/5	2	0.18	0.15	0.59
38	2	1/5	2	0.46	0.17	0.59	77	3	3	5	0.23	0.43	0.34
39	2	1/5	2	0.48	0.18	0.69	79	3	2	3	0.13	0.15	0.40
41	2	1/5	2	0.53	0.23	0.51	80	3	1/5	1	0.31	0.17	0.70
42	2	2	3	0.30	0.27	0.66	82	3	2	3	0.20	0.23	0.56

Table 70. Constructed-Response Item Analyses, Grade 8 Science

Mean Item-Total Corr.: 0.43 Mean *p*-Value: 0.41

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
12		1	1/5	2	0.54	34.63	28.52	35.58			1.28	0.50
19		1	1/5	1	0.50	27.54	31.91	39.59			0.96	0.56
20		1	1/5	1	0.43	41.62	57.27				1.12	0.57
21		1	1/5	2	0.40	19.23	79.55				1.22	0.80
22		1	1/5	2	0.49	8.01	13.05	20.65	28.95	28.69	0.65	0.64
23		1	1/5	2	0.50	24.12	74.48				1.40	0.74
24		1	1/5	1	0.26	72.42	25.95				1.63	0.26
25		1	1/5	2	0.36	63.54	34.15				2.30	0.34
30		2	3	5	0.48	34.76	36.44	26.43			2.38	0.45
33		2	4	6	0.32	76.67	20.79				2.53	0.21
35		2	3		0.41	43.86	55.55				0.59	0.56
40		2	1/5		0.22	86.44	9.62	0.84			3.10	0.06
43		2	4	6	0.41	52.16	33.96	12.68			1.21	0.30
48		2	3		0.38	34.81	56.90	7.05			1.24	0.35
53		2	2	3	0.60	49.53	28.66	19.87			1.94	0.34
61		3	3		0.39	33.47	51.74	13.78			1.02	0.40
64		3	1/5	1	0.55	41.89	51.20	5.66			1.25	0.31
67		3	2	3	0.45	34.40	39.20	25.16			1.24	0.45
72		3	4	6	0.45	61.03	28.60	7.11			3.25	0.21
75		3	3		0.60	40.52	37.47	21.22			0.80	0.40
78		3	3		0.52	23.91	41.50	33.55			1.04	0.54
81		3	2	3	0.48	44.02	33.78	17.39			4.81	0.34
83		3	3	5	0.10	96.74	1.39				1.88	0.01

Table 71. Multiple-Choice Item Analyses, Grade 9 Reading

Mean Item-Total Corr.: 0.36 Mean *p*-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
4	3	1	1	0.42	0.11	0.62	39	4	4	4	0.47	0.28	0.65
5*	3	4	1	-0.04	0.22	0.18	40	4	6	4	0.31	0.36	0.64
7*	3	6	1	0.04	0.14	0.55	42	4	6	4	0.34	0.30	0.41
8	3	6	1	0.45	0.08	0.90	43	4	6	4	0.30	0.37	0.55
9	3	5		0.31	0.13	0.75	44	4	1	3	0.38	0.45	0.76
11	3	5		0.27	0.13	0.45	45	4	1	3	0.29	0.49	0.62
13	3	1	4	0.43	0.10	0.77	46	4	1	2	0.28	0.91	0.50
14	3	1	3	0.47	0.09	0.90	47	4	1	3	0.25	0.61	0.76
15	3	5		0.35	0.14	0.58	48	4	1	3	0.33	0.60	0.62
16	3	5		0.46	0.15	0.84	49	4	5		0.42	0.71	0.68
18	3	4	2	0.35	0.27	0.82	50	4	5		0.45	0.78	0.71
19	3	1	3	0.46	0.24	0.91	51	4	5		0.41	0.83	0.62
20	3	1	3	0.44	0.30	0.78	52	4	1	3	0.29	0.82	0.68
21	3	1	2	0.29	0.62	0.79	53	4	5		0.22	1.17	0.30
22	3	5		0.36	0.43	0.74	54	4	1	2	0.41	0.99	0.50
24	4	5		0.49	0.07	0.79	98	6	5		0.46	0.18	0.65
25	4	5		0.15	0.12	0.44	99	6	1	2	0.43	0.32	0.84
27	4	1	2	0.38	0.13	0.92	101	6	5		0.45	0.75	0.73
28	4	5		0.31	0.17	0.84	103	6	4	1	0.38	0.28	0.65
29	4	1	2	0.38	0.24	0.60	104	6	1	1	0.41	0.34	0.85
31	4	1	3	0.30	0.14	0.58	106	6	1	1	0.36	0.97	0.65
32	4	6	1	0.32	0.11	0.84	107	6	5		0.51	0.19	0.90
33	4	5		0.47	0.18	0.86	108	6	5		0.47	0.31	0.76
34	4	6	1	0.38	0.18	0.47	110	6	4	1	0.18	0.52	0.27
35	4	1	3	0.47	0.11	0.78	111	6	5		0.27	0.33	0.69
36	4	6	1	0.37	0.24	0.58	112	6	6	1	0.25	0.61	0.73
37	4	4	4	0.30	0.23	0.54	113	6	6	1	0.45	0.44	0.76
38	4	4	4	0.43	0.24	0.72	114	6	1	1	0.51	0.49	0.81

Table 72. Constructed-Response Item Analyses, Grade 9 Reading

Mean Item-Total Corr.: 0.51 Mean *p*-Value: 0.51

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
6		3	4	1	0.49	20.37	45.72	28.04	3.67		2.21	0.38
10		3	1	1	0.49	29.78	31.40	14.96	21.19		2.66	0.42
12		3	1	4	0.49	23.15	21.18	26.44	27.70		1.53	0.52
17		3	1	2	0.49	6.79	40.92	6.19	44.33		1.77	0.62
23		3	6	2	0.55	8.71	28.96	37.02	22.55		2.76	0.57
26		4	4	2	0.48	13.12	43.78	32.14	8.13		2.83	0.44
30		4	5		0.60	11.12	16.35	26.81	43.14		2.58	0.66
41		4	6	4	0.52	32.51	42.99	20.36			4.15	0.42
97		6	4	2	0.63	6.15	15.05	26.63	48.02		4.16	0.71
100		6	4	2	0.50	3.50	35.43	37.53	21.22		2.32	0.58
102		6	6	1	0.53	10.62	32.32	33.30	19.18		4.57	0.52
105		6	4	1	0.30	40.54	44.21	11.85			3.41	0.34
109		6	1	1	0.49	36.66	31.71	27.69			3.95	0.44
115		6	6	1	0.55	21.83	19.16	41.12	14.23		3.67	0.48

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Table 73. Multiple-Choice Item Analyses, Grade 9 Writing

Mean Item-Total Corr.: 0.41 Mean *p*-Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
55*	5	2		0.39	0.09	0.48	75	5	2	5	0.44	0.32	0.78
56	5	2		0.29	0.06	0.74	77	5	3	8	0.00	0.48	0.22
57	5	2		0.27	0.19	0.71	78	5	2	5	0.33	0.49	0.50
58	5	3	8	0.10	0.05	0.75	79	5	3	7	0.48	0.46	0.82
59	5	3	8	0.36	0.16	0.90	80	5	3	7	0.53	0.74	0.84
60	5	3	8	0.38	0.32	0.80	81	5	2	7	0.50	0.56	0.81
61	5	3	8	0.45	0.14	0.87	82	5	3	7	0.49	0.57	0.65
62	5	3	7	0.30	0.19	0.62	83	5	2	7	0.49	0.64	0.72
63	5	3	7	0.48	0.37	0.74	84	5	3	7	0.52	0.60	0.82
64	5	3	8	0.31	0.58	0.63	85	5	2	5	0.26	0.65	0.44
65	5	2	5	0.37	0.18	0.55	86	5	3	8	0.38	0.80	0.65
66	5	2	5	0.42	0.23	0.66	87	5	3	7	0.44	0.67	0.67
67	5	3	7	0.57	0.24	0.84	88	5	3	7	0.53	1.05	0.87
68	5	3	7	0.50	0.38	0.89	89	5	3	7	0.54	0.99	0.77
69	5	3	8	0.47	0.37	0.75	90	5	2	5	0.22	0.68	0.78
70	5	3	7	0.48	0.31	0.85	91	5	2		0.51	0.79	0.75
71	5	3	7	0.50	0.37	0.84	92	5	2	5	0.49	0.85	0.57
72	5	3	7	0.49	0.35	0.71	93	5	3	7	0.50	1.13	0.68
73	5	2	5	0.29	0.19	0.62	94	5	3	8	0.31	0.99	0.52
74	5	3	8	0.46	0.62	0.87	95	5	2	5	0.54	1.19	0.64

Table 74. Constructed-Response Item Analyses, Grade 9 Writing

Mean Item-Total Corr.: 0.44 Mean *p*-Value: 0.68

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.14	1.49	98.51				0.00	0.99
2	A	2	3	8	0.38	21.06	78.80				0.13	0.79
2	B	2	3	7	0.47	37.18	62.69				0.14	0.63
2	C	2	3	7	0.35	12.23	87.64				0.14	0.88
2	D	2	3	8	0.25	81.24	18.63				0.14	0.19
2	E	2	3	7	0.47	36.35	63.52				0.14	0.64
2	F	2	3	8	0.40	46.67	53.19				0.14	0.53
3	A	2	2	6	0.63	0.60	2.55	31.17	46.56	18.90	0.21	0.70
3	B	2	2	6	0.63	0.00	3.12	33.03	44.70	18.94	0.22	0.70
3	C	2	3	6	0.34	0.21	3.55	96.04			0.21	0.98
76		5	2	5	0.52	0.19	3.99	43.47	41.97	9.17	1.21	0.63
96		5	2	5	0.57	0.92	11.15	38.06	39.21	6.98	3.68	0.58
116		5	2	5	0.53	0.73	8.63	44.67	35.25	5.19	5.54	0.56

Table 75. Multiple-Choice Item Analyses, Grade 9 Mathematics

Mean Item-Total Corr.: 0.32 Mean *p*-Value: 0.47

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	4/5		0.40	0.39	0.43	32	2	2	1	0.45	0.25	0.37
2	1	4/5		0.25	0.21	0.24	33	2	4/5		0.39	0.30	0.32
3	1	2		0.41	0.11	0.56	34	2	2		0.49	0.42	0.25
5	1	1/6		0.46	0.20	0.59	35	2	3		0.40	0.13	0.67
6	1	1/6	2	0.38	0.22	0.58	37	2	1/6		0.32	0.33	0.45
7	1	4/5		0.44	0.33	0.25	38	2	3		0.05	0.15	0.21
9	1	2	1	0.43	0.22	0.56	39	2	3		0.29	0.12	0.71
10	1	4/5	2	0.44	0.23	0.37	41	3	1/6	2	0.36	0.18	0.63
12	1	1/6		0.46	0.44	0.43	42	3	3	2	0.36	0.19	0.67
13	1	4/5		0.10	0.28	0.41	43	3	2		0.29	0.06	0.90
15	1	3		0.36	0.37	0.43	45*	3	4/5		0.05	0.19	0.19
16	1	4/5		0.36	0.51	0.33	46	3	3		0.40	0.34	0.23
17	1	3		0.30	0.33	0.36	48	3	2		0.22	0.31	0.51
18	1	2	1	0.37	0.34	0.55	49	3	2		0.42	0.40	0.11
19	1	2	1	0.31	0.65	0.22	50	3	3	2	0.32	0.51	0.67
21	2	3	1	0.28	0.07	0.64	52	3	4/5		0.39	0.41	0.55
23	2	1/6		0.20	0.96	0.44	53	3	3		0.36	0.45	0.70
24	2	4/5		0.50	0.32	0.48	55	3	1/6		0.25	0.50	0.53
26	2	2		0.34	0.24	0.17	56	3	4/5		0.15	0.32	0.37
27	2	2	1	0.11	0.14	0.84	57	3	3		0.25	0.30	0.34
28	2	1/6		0.18	0.17	0.61	58	3	3		0.29	0.31	0.85
30	2	1/6		0.36	0.36	0.49	59	3	4/5		0.12	0.36	0.50
31	2	1/6		0.23	0.44	0.33							

Table 76. Constructed-Response Item Analyses, Grade 9 Mathematics

Mean Item-Total Corr.: 0.59 Mean *p*-Value: 0.34

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
4		1	2		0.55	80.99	13.23	2.82			2.96	0.09
8		1	2		0.67	38.15	22.03	5.89	31.68		2.25	0.43
11		1	1/6	2	0.61	36.55	33.82	28.68			0.95	0.46
14		1	4/5		0.64	71.90	12.66	7.25	4.50		3.68	0.14
20		1	3		0.52	11.68	22.16	32.15	24.69	8.32	1.01	0.48
22		2	1/6		0.61	60.81	20.57	16.05			2.57	0.26
25		2	4/5		0.56	21.62	19.25	42.84	15.20		1.09	0.50
29		2	4/5		0.40	63.47	22.51	2.89			11.13	0.14
36		2	2	1	0.58	38.42	29.01	17.90	12.98		1.69	0.35
40		2	4/5	2	0.69	66.83	11.66	6.60	5.59	7.56	1.78	0.18
44		3	3		0.49	38.55	38.26	22.21			0.98	0.41
47		3	1/6	2	0.68	46.89	27.47	6.06	16.09		3.50	0.29
51		3	2		0.43	18.24	22.22	57.95			1.59	0.69
54		3	3	2	0.76	50.89	22.00	17.77	7.37		1.97	0.27
60		3	2	1	0.61	31.03	17.20	26.03	8.00	15.15	2.60	0.38

Table 77. Multiple-Choice Item Analyses, Grade 10 Reading

Mean Item-Total Corr.: 0.35 Mean *p*-Value: 0.69

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
4	3	1	1	0.36	0.06	0.87	40	4	1	2	0.40	0.32	0.61
5	3	4	1	0.43	0.08	0.82	41	4	5		0.40	0.26	0.83
6	3	6	1	0.40	0.07	0.82	42	4	5		0.49	0.39	0.75
8	3	5		0.19	0.25	0.61	44	4	1	3	0.19	0.51	0.72
9	3	1	3	0.37	0.16	0.78	45	4	5		0.34	0.49	0.67
10	3	5		0.39	0.12	0.74	46	4	5	3	0.45	0.63	0.66
11	3	6	1	0.36	0.17	0.82	47	4	1	2	0.36	1.42	0.47
13	3	1	1	0.47	0.17	0.63	48	4	4	2	0.42	1.58	0.84
14*	3	4	1	-0.05	0.23	0.22	50	4	5		0.26	1.36	0.66
16*	3	6	1	0.10	0.47	0.50	52	4	5		0.32	2.38	0.46
17	3	6	1	0.51	0.18	0.88	53	4	1	3	0.37	2.42	0.81
18	3	5		0.35	0.21	0.77	96	6	4	1	0.36	0.14	0.80
19	3	1	3	0.40	0.30	0.47	97	6	5		0.38	0.13	0.61
20	3	1	3	0.36	0.19	0.88	98	6	4	1	0.50	0.31	0.78
21	3	5		0.52	0.23	0.81	99	6	4	1	0.52	0.28	0.91
22	3	5		0.42	0.21	0.52	100	6	1	3	0.27	0.24	0.52
23	3	5		0.30	0.27	0.84	101	6	1	3	0.46	0.23	0.83
24	3	4	2	0.43	0.27	0.82	103	6	1	1	0.42	0.25	0.84
25	3	1	2	0.27	0.45	0.59	104	6	4	1	0.33	0.23	0.66
26	3	5		0.45	0.34	0.92	105	6	1	1	0.40	0.32	0.88
28	4	4	2	0.31	0.25	0.75	107	6	1	1	0.37	0.22	0.69
29	4	4	2	0.44	0.21	0.77	108	6	5		0.49	0.11	0.92
32	4	6	2	0.13	0.20	0.51	110	6	4	4	0.42	0.21	0.76
33	4	1	3	0.20	0.21	0.54	111	6	6	4	0.47	0.16	0.77
34	4	4	2	0.41	0.19	0.76	112	6	4	4	0.43	0.19	0.63
36	4	1	3	0.08	0.27	0.39	113	6	1	4	0.23	0.54	0.60
37*	4	1	2	-0.16	1.11	0.23	114	6	1	4	0.21	0.20	0.45
39	4	1	3	0.43	0.22	0.82	115	6	6	4	0.32	0.37	0.64

Table 78. Constructed-Response Item Analyses, Grade 10 Reading

Mean Item-Total Corr.: 0.49 Mean *p*-Value: 0.45

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
7		3	6	1	0.38	25.03	39.76	23.17	5.15		6.89	0.34
12		3	6	1	0.50	20.39	37.08	32.20	5.86		4.48	0.40
15		3	4	1	0.54	23.49	40.14	26.99	3.98		5.41	0.35
27		3	5		0.42	21.70	23.12	29.91	22.19		3.09	0.50
30		4	1	2	0.41	6.45	35.59	38.07	17.50		2.39	0.55
31		4	6	2	0.52	13.38	28.70	41.96	12.00		3.96	0.50
35		4	1	2	0.58	13.64	34.87	27.57	20.74		3.17	0.51
38		4	4	2	0.59	37.73	35.95	15.27	4.83		6.22	0.27
43		4	6	4	0.53	22.87	42.62	29.16			5.35	0.50
49		4	1	2	0.46	36.55	28.15	25.65			9.66	0.40
51		4	5		0.59	9.22	9.99	19.59	52.11		9.09	0.68
102		6	6	1	0.56	8.30	28.04	33.47	24.99		5.20	0.57
106		6	4	1	0.30	35.53	44.17	16.39			3.91	0.38
109		6	1	4	0.50	14.50	44.83	29.61	6.05		5.02	0.41

Table 79. Multiple-Choice Item Analyses, Grade 10 Writing

Mean Item-Total Corr.: 0.41   Mean *p*-Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
54	5	3	8	0.30	0.07	0.58	75	5	2	5	0.43	0.18	0.74
55	5	3	7	0.43	0.10	0.94	76	5	3	7	0.55	0.35	0.86
56	5	2	5	0.35	0.10	0.58	77	5	3	7	0.47	0.30	0.62
57	5	3	7	0.48	0.14	0.91	78	5	3	7	0.17	0.68	0.36
58	5	3	7	0.23	0.17	0.74	79	5	2	7	0.51	0.47	0.87
59	5	3	7	0.46	0.38	0.82	80	5	3	7	0.49	0.77	0.84
60	5	3	7	0.44	0.31	0.85	81	5	2	5	0.47	0.31	0.66
61	5	3	7	0.49	0.15	0.78	82	5	3	7	0.48	0.34	0.92
62	5	3	7	0.32	0.20	0.47	83	5	3	7	0.51	0.51	0.74
63	5	3	7	0.47	0.42	0.86	84	5	3	7	0.53	0.50	0.90
64	5	3	8	0.28	0.21	0.52	85	5	3	7	0.48	0.42	0.93
65	5	2	7	0.50	0.21	0.82	86	5	2	7	0.49	0.42	0.80
66	5	3	8	-0.01	0.25	0.23	87	5	2	5	0.27	0.51	0.59
67	5	2	7	0.49	0.34	0.77	88	5	2		0.52	0.58	0.78
68	5	2	5	0.32	0.17	0.55	89	5	2	5	0.54	0.52	0.70
69	5	3	7	0.36	0.20	0.81	90	5	2		0.49	0.43	0.89
70	5	3	7	0.50	0.32	0.84	91	5	3	7	0.53	0.59	0.86
72	5	3	7	0.52	0.18	0.83	92	5	3	8	0.31	0.53	0.48
73	5	2	5	0.30	0.29	0.43	93	5	2	5	0.31	0.67	0.58
74	5	2	5	0.27	0.24	0.57	94	5	3	8	0.36	0.81	0.50

Table 80. Constructed-Response Item Analyses, Grade 10 Writing

Mean Item-Total Corr.: 0.39 Mean *p*-Value: 0.73

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
1		1	2	6	0.14	1.54	98.46				0.00	0.98
2	A	2	3	7	0.43	32.82	67.05				0.13	0.67
2	B	2	3	8	0.20	28.60	71.28				0.13	0.71
2	C	2	3	8	0.27	23.78	76.09				0.13	0.76
2	D	2	3	8	0.16	17.28	82.58				0.14	0.83
2	E	2	3	8	0.42	60.24	39.58				0.18	0.40
2	F	2	3	7	0.30	18.02	81.85				0.13	0.82
3	A	2	2	6	0.62	0.57	1.84	23.10	46.28	28.07	0.15	0.75
3	B	2	2	6	0.62	0.00	2.17	23.42	45.94	28.33	0.15	0.75
3	C	2	3	6	0.31	0.17	2.38	97.30			0.15	0.98
71		5	2	5	0.53	0.52	6.33	36.80	44.66	8.22	3.48	0.62
95		5	2	5	0.56	0.51	6.77	44.49	35.96	8.21	4.06	0.59
116		5	2	5	0.57	0.44	5.52	35.15	41.51	15.05	2.34	0.65

Table 81. Multiple-Choice Item Analyses, Grade 10 Mathematics

Mean Item-Total Corr.: 0.33 Mean *p*-Value: 0.44

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	3		0.28	0.12	0.44	31	2	1/6		0.21	0.89	0.42
3	1	1/6		0.31	0.14	0.39	33	2	3		0.29	0.16	0.59
4	1	1/6		0.37	0.46	0.54	34	2	2	1	0.49	0.24	0.39
5	1	1/6		0.43	0.31	0.57	36	2	4/5		0.46	0.42	0.34
6	1	4/5	1	0.28	0.14	0.30	37	2	2	1	0.46	0.22	0.43
7	1	1/6		0.22	0.37	0.40	38	2	4/5		0.30	0.23	0.31
9	1	4/5		0.53	0.25	0.38	39	2	4/5		0.13	0.42	0.27
10	1	1/6		0.39	0.45	0.59	41	3	4/5		0.31	0.45	0.17
11	1	2	1	0.39	0.25	0.28	42	3	3	2	0.12	0.08	0.03
12	1	2		0.25	0.17	0.48	44	3	4/5		0.23	0.35	0.36
14	1	1/6		0.37	0.34	0.32	45	3	3	2	0.34	0.40	0.39
15	1	4/5		0.31	0.19	0.23	46	3	3	2	0.29	0.37	0.31
16	1	2	1	0.41	0.20	0.50	47	3	2		0.31	0.39	0.62
18	1	2	1	0.40	0.19	0.63	49	3	1/6		0.28	0.52	0.31
19	1	1/6		0.55	0.46	0.37	50	3	3	2	0.27	0.46	0.87
21	2	3	1	0.30	0.07	0.73	51	3	2		0.52	0.49	0.17
22	2	2		0.33	0.07	0.67	52	3	4/5		0.18	0.27	0.51
24	2	3	2	0.39	0.17	0.70	54	3	2		0.33	0.22	0.33
25	2	4/5		0.29	0.11	0.45	55	3	2		0.40	0.36	0.60
26	2	1/6		0.14	0.20	0.19	56	3	3		0.38	0.33	0.51
28	2	1/6		0.27	0.71	0.41	58	3	1/6		0.32	0.53	0.37
29	2	3	1	0.34	0.27	0.77	59	3	2		0.38	0.43	0.70
30	2	2		0.19	0.63	0.36							

Table 82. Constructed-Response Item Analyses, Grade 10 Mathematics

Mean Item-Total Corr.: 0.60 Mean *p*-Value: 0.34

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
2		1	3		0.55	45.65	43.03	8.43			2.89	0.30
8		1	4/5		0.66	65.80	14.52	9.12	6.11		4.46	0.17
13		1	2	1	0.67	34.42	31.78	30.55			3.26	0.46
17		1	1/6		0.59	65.79	17.32	9.59	3.89		3.41	0.16
20		1	3	1	0.54	10.04	18.56	31.12	28.14	11.15	0.99	0.52
23		2	1/6		0.69	55.00	15.46	27.46			2.08	0.35
27		2	3		0.35	12.15	65.51	21.49			0.84	0.54
32		2	3		0.61	56.59	21.69	3.11	17.05		1.56	0.26
35		2	2	1	0.51	15.93	18.78	36.87	27.17		1.26	0.58
40		2	2	1	0.72	42.56	30.63	14.34	8.01	2.19	2.28	0.23
43		3	2		0.67	62.25	7.32	26.86			3.57	0.31
48		3	2	1	0.65	49.37	29.47	13.27	5.10		2.78	0.24
53		3	4/5		0.43	59.09	6.27	29.48			5.16	0.33
57		3	4/5	1	0.72	43.49	22.30	11.18	19.39		3.63	0.34
60		3	4/5		0.68	33.50	28.38	13.79	11.16	9.76	3.41	0.32

Table 83. Multiple-Choice Item Analyses, Grade 10 Science

Mean Item-Total Corr.: 0.28 Mean *p*-Value: 0.53

Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	*p*-Value
1	1	1/5	2	0.35	0.05	0.70	45	2	2		0.42	0.38	0.76
2	1	1/5	2	0.37	0.08	0.63	46	2	4	6	0.13	0.13	0.39
3*	1	3	5	-0.10	0.15	0.14	47	2	2	4	0.37	0.26	0.47
4*	1	3	5	-0.04	0.32	0.32	48	2	4	6	0.48	0.23	0.76
5	1	2	4	0.34	0.10	0.65	49	2	3	5	0.23	0.18	0.59
6	1	1/5	2	0.50	0.09	0.74	50	2	1/5	1	0.39	0.19	0.47
7	1	1/5	2	0.39	0.24	0.80	51	2	4	6	0.12	0.18	0.27
8	1	3	5	0.39	0.11	0.43	53	2	1/5	1	0.38	0.45	0.82
9	1	3	5	0.32	0.48	0.62	54	2	2	4	0.17	0.49	0.56
10	1	2	4	0.20	0.11	0.48	55	3	4		0.44	0.05	0.83
11	1	4	6	0.37	0.20	0.69	56	3	1/5	1	0.23	0.07	0.61
12	1	2		0.27	0.19	0.42	58*	3	2	4	-0.06	0.24	0.20
13*	1	3	5	-0.08	0.13	0.41	59	3	1/5	1	0.18	0.40	0.28
15	1	3	5	0.34	0.16	0.50	60	3	1/5	1	0.25	0.19	0.50
16	1	3		0.40	0.24	0.45	61	3	4	6	0.32	0.10	0.85
17	1	1/5	1	0.28	0.15	0.61	62	3	4		0.43	0.21	0.66
18	1	3	5	0.11	0.23	0.34	63	3	1/5		0.28	0.27	0.53
19	1	3	5	0.40	0.30	0.64	64	3	2	4	0.49	0.31	0.56
21	1	3		0.24	0.10	0.31	66	3	2	4	0.31	0.18	0.59
28	2	1/5		0.40	0.07	0.72	68	3	1/5	2	0.29	0.38	0.73
29	2	4	6	0.35	0.10	0.58	70	3	4		0.27	0.15	0.55
31	2	1/5		0.36	0.10	0.68	71	3	2	4	0.30	0.29	0.49
32	2	1/5	2	0.20	0.52	0.43	73	3	1/5		0.21	0.29	0.28
33	2	2		0.20	0.16	0.35	76	3	3	5	0.32	0.34	0.38
35	2	1/5	1	0.25	0.16	0.49	77	3	2	4	0.38	0.43	0.64
38	2	4	6	0.16	0.26	0.47	79	3	1/5		0.31	0.33	0.37
39	2	2	4	0.42	0.27	0.34	80	3	2	4	0.42	0.17	0.55
40	2	4	6	0.12	0.36	0.40	81	3	2	4	0.33	0.31	0.64
41	2	3	5	0.21	0.40	0.33	82	3	4		0.19	0.37	0.35
44	2	1/5	2	0.39	0.12	0.88	83	3	3	5	0.29	0.38	0.53

Table 84. Constructed-Response Item Analyses, Grade 10 Science

Mean Item-Total Corr.: 0.42 Mean *p*-Value: 0.33

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	*p*-Value
14		1	3	5	0.29	64.81	12.09	1.37			21.73	0.07
20		1	4		0.14	67.48	11.02	0.42			21.09	0.06
22		1	1/5	2	0.55	14.74	12.58	16.13	21.75	33.08	1.72	0.61
23		1	1/5	1	0.44	31.66	21.94	43.11			3.29	0.54
24		1	1/5	1	0.50	29.75	40.92	24.43			4.90	0.45
25		1	1/5	1	0.32	60.50	35.24				4.26	0.35
26		1	1/5	2	0.40	59.13	36.23				4.64	0.36
27		1	1/5	2	0.32	66.89	29.47				3.64	0.29
30		2	1/5	2	0.23	75.90	21.62				2.48	0.22
34		2	4	6	0.49	36.10	29.54	31.23			3.12	0.46
36		2	1/5	1	0.43	36.07	52.08	9.89			1.97	0.36
37		2	4	6	0.31	53.25	36.09	5.18			5.47	0.23
42		2	4	6	0.37	68.63	28.62				2.75	0.29
43		2	3	5	0.48	47.56	42.50	6.36			3.57	0.28
52		2	1/5	1	0.52	51.42	32.23	11.36			5.00	0.27
57		3	3	5	0.48	41.74	46.77	6.47			5.02	0.30
65		3	2		0.36	79.70	16.44				3.87	0.16
67		3	1/5	1	0.59	44.32	33.59	18.55			3.55	0.35
69		3	4		0.61	38.51	39.49	16.28			5.72	0.36
72		3	2	4	0.54	59.09	13.33	17.70			9.89	0.24
74		3	2	4	0.42	79.21	14.00				6.79	0.14
75		3	1/5	2	0.52	9.19	16.20	71.67			2.93	0.80
78		3	1/5	2	0.45	49.84	46.15				4.02	0.46

Table 85. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.84778	0.2248	0.2034	14.54	21	0.41533	-0.2646	0.1524	10.13
2	0.76955	0.7350	0.2230	19.02	22	0.89352	-1.0288	0.1130	3.61
3	1.02517	0.0802	0.2871	17.73	24	0.86808	-0.9357	0.0813	15.19
5	1.32679	-0.5172	0.2996	20.69	25	0.86620	-1.2332	0.1061	19.49
6	0.93795	-0.4961	0.2247	10.53	26	1.63847	-1.8353	0.1614	30.58
7	0.38641	-1.6281	0.1172	15.36	27	0.92085	-0.6246	0.1154	27.19
8	0.70605	0.5967	0.0801	55.61	28	1.03105	-1.2924	0.1244	48.60
9	0.60969	-0.2584	0.2285	9.35	31	0.64093	-1.3179	0.0465	27.51
10	1.11346	-0.1351	0.2560	26.38	33	0.71719	0.6121	0.1124	17.71
11	0.97585	1.0083	0.2408	44.28	34	1.27318	-0.7712	0.1814	14.09
12	0.40929	-1.5174	0.2000	42.12	35	1.33790	-0.5597	0.2334	21.22
14	0.88537	-1.5189	0.1524	34.58	36	0.79587	-0.5067	0.2100	15.19
15	1.20052	0.6122	0.1986	110.85	37	1.57537	-0.0320	0.1824	63.62
17	0.75260	-1.2172	0.0725	3.02	38	0.88482	-0.7022	0.1191	15.82
18	1.02662	-1.8953	0.0539	28.14	39	0.67789	1.7327	0.2619	32.64
19	0.64572	-1.4136	0.1524	1.33	40	0.95403	0.2856	0.1962	25.68

N=62972 M1=63.2963 M2=566.9119 Critical Z=167.93

Table 86. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.06951	-1.5493	0.9890			274.47
13		0.57522	-0.8476	0.1820	1.2867		249.09
16		0.52687	-0.4542	-1.0291			123.43
20		0.59771	-0.8857	0.3100	1.7771		32.33
23		0.58900	-0.0579	0.7757	1.9621		33.25
29		0.90634	-1.6703	0.0338			119.08
30		0.89572	-1.2429	-1.1619			67.53
32		0.76076	-1.3059	0.5563	1.6772		119.86

N=62972 M1=63.2963 M2=566.9119 Critical Z=167.93

Table 87. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Reading (Spanish)

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
3	0.93745	1.2845	0.1122	0.46	21	1.54670	-1.9758	0.2000	-0.41
4	0.34006	-0.7786	0.2000	2.84	22	0.91119	-0.1558	0.3626	-0.72
5	0.46652	1.8242	0.1691	1.76	23	1.41577	-1.4183	0.2000	-0.52
6	0.97645	1.6655	0.1508	-0.78	24	0.68224	-1.4662	0.2000	-0.18
7	0.67079	1.5778	0.1390	-0.65	27	0.67958	-1.9677	0.2000	1.36
9	0.69928	0.4300	0.2000	-0.37	28	0.85301	-0.8690	0.1528	0.09
10	0.50358	-0.1872	0.2000	2.94	29	0.59387	-1.1204	0.2000	1.68
11	0.68534	-0.4401	0.2000	0.21	30	1.06614	0.3737	0.2521	0.60
12	0.53662	0.2077	0.1659	0.37	31	1.01174	0.0811	0.2791	1.86
13	0.91829	1.1092	0.1724	-0.13	33	0.64071	-0.1927	0.2000	-0.03
14	0.18065	3.9038	0.2000	0.93	34	1.01441	0.9990	0.3235	0.35
15	0.98753	-0.9296	0.2000	-0.94	35	0.27636	3.5401	0.2294	-0.83
16	0.89134	-1.3004	0.2000	-0.73	37	1.28936	-0.8824	0.1173	-0.10
18	0.64552	-0.8697	0.2000	1.11	38	0.73287	-0.3789	0.2000	-0.77
19	1.00044	-0.8954	0.2000	-1.03	39	0.89423	-0.1471	0.2177	0.46
20	0.91870	-0.5557	0.2000	1.11	40	0.69073	-0.0368	0.1881	-0.03

Pre-Equated N=1349 M1=39.2941 M2=528.4950 Critical Z=3.60

Table 88. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Reading (Spanish)

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.50984	0.7846	-1.0093	-0.3516		6.00
2		0.75468	0.6805	-0.4074	-1.5945		-0.71
8		0.96815	-0.6878	-0.3734			1.66
17		0.65207	-0.5415	-0.4347	0.1401		0.52
25		1.11052	-1.7454	-0.9812			-0.05
26		0.54739	0.6116	0.0062			3.42
32		0.71939	-0.5830	0.3039	1.8817		1.12
36		1.14170	-1.0634	-0.3895			0.98

Pre-Equated N=1349 M1=39.2941 M2=528.4950 Critical Z=3.60

Table 89. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
2	0.85379	-1.5314	0.2000	0.84	21	0.96692	-1.8443	0.2000	2.44
3	0.61563	0.8956	0.1818	7.43	22	0.89379	-0.7458	0.3541	15.40
4	1.17297	-1.0004	0.2179	5.28	23	0.51211	-2.5332	0.2000	16.66
5	1.45587	-1.5044	0.2293	13.14	24	0.99905	-0.6986	0.2755	7.24
6	1.36011	-1.6310	0.2118	15.59	25	0.90616	-1.5779	0.2262	4.23
7	0.77327	-2.5460	0.2000	22.23	26	0.86243	-1.5129	0.2435	3.57
8	0.76851	-0.9299	0.1738	5.97	27	0.69722	-0.9277	0.1666	4.25
9	0.93919	-1.3369	0.1242	4.16	29	0.51224	-0.1870	0.1213	2.94
11	0.37828	0.3008	0.1540	17.92	30	0.68048	-1.4639	0.2645	2.49
12	0.61484	1.1492	0.1908	10.07	31	0.76873	1.0365	0.2005	10.13
13	0.72327	-1.0172	0.2148	2.39	32	0.84975	0.3866	0.2444	9.57
14	0.75880	-1.0309	0.2720	9.38	33	0.86192	-1.4887	0.2000	3.92
15	0.79630	0.6448	0.1229	12.49	34	1.13917	-0.6271	0.2933	8.62
16	0.72976	-1.3025	0.2000	-0.15	35	0.95406	-0.3044	0.1720	8.99
17	0.77007	-0.5606	0.3191	20.35	36	0.86377	-0.3994	0.2610	11.20
18	0.73320	-1.0174	0.1937	2.50	37	0.97303	-0.7898	0.1715	3.17
19	0.81901	0.4276	0.1892	10.22	38	0.71435	-0.3295	0.2179	8.97
20	1.22081	-1.5550	0.2713	2.84					

N=62830 M1=43.4051 M2=464.3717 Critical Z=167.55

Table 90. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1	A	1.47738	-2.1452				4.16
1	B	2.19852	-1.8872				13.76
1	C	1.75289	-1.8825				74.42
1	D	1.36270	-0.6907				5.54
1	E	1.23103	-1.4015				10.42
1	F	1.86631	-1.4660				8.68
10	A	1.00186	-4.5523	0.7726			47.15
10	B	1.80766	-5.5459				12.62
10	C	1.77841	-2.2056				7.65
10	D	1.86292	-3.6702				3.30
28	A	0.94700	-5.0562	1.0149			65.78
28	B	2.12938	-6.8916				11.23
28	C	1.76687	-2.4655				5.25
28	D	1.82157	-3.3104				3.49
39	A	1.12795	-4.7187	1.1673			26.73
39	B	1.65803	-5.4832				15.64
39	C	1.67476	-1.6659				5.98
39	D	1.90743	-2.9313				10.42

N=62830 M1=43.4051 M2=464.3717 Critical Z=167.55

Table 91. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Writing (Spanish)

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.72636	-1.6356	0.2000	-0.42	21	0.56024	-0.8516	0.2000	-0.21
2	0.69865	-1.6673	0.2000	-0.09	22	0.91660	0.1488	0.2061	1.56
3	0.79960	-1.7859	0.2000	0.18	23	0.72320	-0.7483	0.2000	2.07
5	0.56896	-0.1673	0.2000	0.38	24	0.64572	-0.6175	0.2000	1.94
6	0.67890	-1.2497	0.2000	5.31	25	0.74924	-1.0085	0.2000	0.38
7	0.57375	-0.7923	0.2000	0.07	26	0.77749	1.0288	0.1889	-0.29
8	0.69572	0.3141	0.1901	-0.75	28	0.60282	-0.5751	0.1929	0.18
9	0.88029	0.3406	0.2014	0.18	29	1.09060	-1.4228	0.2000	-0.21
10	0.86365	-2.3712	0.2000	1.26	30	0.96215	-1.3955	0.2000	-0.72
11	0.71952	-1.5266	0.2000	-0.21	31	0.91521	-0.7958	0.2000	-0.66
12	0.98466	-1.9949	0.2000	0.89	32	0.63928	-0.0727	0.2000	-0.45
13	0.55883	-1.1144	0.2000	1.64	33	0.83169	-0.2761	0.1889	-0.32
14	0.70850	-1.0884	0.2000	-0.06	34	1.15607	-1.7872	0.2000	-0.91
15	0.80286	-0.9017	0.2000	-1.51	35	1.03792	-1.8187	0.2000	-1.08
17	0.95328	-0.8250	0.2000	0.81	36	0.84772	-0.4358	0.2000	2.11
18	1.35829	1.9369	0.1836	0.91	37	0.59765	0.3643	0.2000	-0.60
19	0.98987	1.7456	0.1935	0.41	38	0.56619	-1.0763	0.2000	-0.13
20	0.76280	-0.3028	0.2000	-0.26					

Pre-Equated N=1471 M1=64.1898 M2=501.4712 Critical Z=3.92

Table 92. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Writing (Spanish)

Item	Part	f	g1	g2	g3	g4	Fit-Z
4	A	1.08595	-1.7175				-1.12
4	B	1.10075	1.3937				2.66
4	C	1.05723	-0.8095				0.68
4	D	1.07840	-0.7179				0.51
4	E	1.14458	-0.1152				0.73
4	F	0.91387	-1.5841				0.33
16	A	1.05874	-2.6250	1.2813			-0.51
16	B	1.16766	-0.7295				0.23
16	C	1.84093	-1.9080				2.70
16	D	1.68899	-3.1443				-0.99
27	A	1.41742	-1.5381	1.7595			2.24
27	B	1.58094	0.1036				0.50
27	C	2.23694	-1.1389				-0.68
27	D	1.98233	-2.0143				-0.39
39	A	1.06278	-1.8229	1.4828			-0.62
39	B	1.06040	0.4272				-0.82
39	C	1.63350	-0.8728				0.40
39	D	1.23269	-2.0762				0.39

Pre-Equated N=1471 M1=64.1898 M2=501.4712 Critical Z=3.92

Table 93. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.69747	1.2888	0.0805	7.25	21	0.71417	-3.2403	0.2000	8.95
2	0.51996	0.5889	0.2723	7.24	22	0.56659	-2.6481	0.2000	16.70
3	0.60444	-0.3756	0.1556	1.91	23	1.17868	-0.5255	0.0724	11.15
4	0.93604	0.5510	0.2340	6.14	24	1.49550	0.8640	0.1474	32.68
5	0.69402	-0.2637	0.3860	24.93	25	1.08475	-0.0260	0.1140	10.08
7	0.77460	-1.6196	0.2000	11.97	27	0.78228	-0.2870	0.1263	3.67
8	0.82177	-0.2387	0.0145	3.81	28	0.71230	-2.9814	0.2000	13.65
9	0.42965	1.0307	0.4981	6.49	29	0.68032	-1.3179	0.0508	7.28
10	0.73170	-0.6163	0.1258	4.66	31	1.08524	-0.7459	0.0785	5.96
12	1.21060	-0.2745	0.0901	7.61	32	0.65645	-1.1606	0.1524	2.33
13	0.96907	-2.3479	0.2000	13.14	33	1.02870	-0.0460	0.0502	6.98
14	1.16730	-1.4431	0.0866	10.36	34	0.67257	-1.0066	0.0692	0.21
15	1.20104	-1.2867	0.0693	13.08	36	1.14765	-0.4077	0.0817	7.46
17	1.13344	-0.1868	0.2010	8.35	37	1.17421	-0.4038	0.0490	5.61
18	0.83703	-0.5733	0.1796	26.04	38	1.03743	-0.5287	0.1035	4.18
19	0.77334	-1.6834	0.0518	20.23	39	1.40909	-0.5177	0.1177	12.17

N=64168 M1=80.9534 M2=468.0214 Critical Z=171.11

Table 94. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
6		1.57998	-1.8622	1.9918			37.63
11		0.85769	1.5721	-1.1310			35.19
16		1.11890	-0.2463	0.0830			65.31
20		0.68078	-0.4326	0.3689	0.9418		79.19
26		0.83670	1.5886	3.2983			29.31
30		0.94308	1.1388	-1.2690			23.77
35		1.15119	0.3869	-1.0672			114.54
40		0.91908	-2.9568	0.1519	-0.1978		21.68

N=64168 M1=80.9534 M2=468.0214 Critical Z=171.11

Table 95. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.55326	-2.9335	0.2000	20.51	39	0.86273	0.0644	0.1746	29.00
6	1.11078	0.1821	0.1321	17.72	40	0.82500	-1.0275	0.1995	-0.06
7	0.82563	-0.7271	0.1724	9.92	41	1.19349	-0.6134	0.2098	4.90
8	0.46511	-3.1920	0.2000	30.54	43	1.27293	-1.3268	0.1873	2.25
9	0.67628	0.2420	0.2092	4.82	44	1.22972	-0.3053	0.3345	11.32
10	0.59931	-1.4984	0.2000	24.98	46	0.77331	0.0550	0.2806	7.86
11	0.82528	0.1258	0.2417	14.86	47	0.96460	-0.8410	0.1704	7.09
12	0.96691	-0.2394	0.1283	29.90	48	0.51435	-0.1130	0.2000	50.63
13	1.16734	-1.2347	0.2563	3.45	49	0.71559	-0.8971	0.0915	37.41
14	0.65416	-2.0325	0.2145	59.80	50	0.79367	0.2909	0.2444	27.84
15	0.77568	0.4128	0.2382	5.79	52	0.52419	-1.0083	0.1737	2.92
16	1.02925	-0.1709	0.2052	19.06	53	0.58470	-1.8572	0.2000	76.81
17	0.69684	2.0065	0.2500	46.25	96	1.15112	-0.4732	0.2297	3.87
18	0.55216	1.1076	0.2396	0.92	97	0.70737	-1.1925	0.2000	10.44
20	0.57636	1.7162	0.2431	2.65	98	0.85894	-1.8636	0.1977	126.85
22	0.69738	0.7293	0.1841	17.07	99	1.10886	-1.0396	0.2942	3.23
23	1.18058	0.6546	0.2302	37.39	100	1.02239	0.1816	0.1985	25.46
24	1.22043	0.1899	0.2319	17.97	101	1.05638	-1.5547	0.2995	2.30
25	0.84056	0.8699	0.1722	8.85	102	0.95495	-0.7254	0.1573	-0.04
27	1.21218	0.4925	0.1729	19.51	105	0.94505	-1.5606	0.3174	14.10
29	0.83442	1.0064	0.1156	19.65	106	1.11897	-1.5772	0.1728	9.92
31	1.11334	-0.1810	0.2202	7.20	107	1.05633	-1.3206	0.2378	8.22
32	0.99247	1.0191	0.1986	14.02	108	0.85266	0.4365	0.3537	7.27
33	0.52986	-1.7619	0.1141	3.51	109	0.31913	-0.8006	0.0092	24.30
34	1.12755	-0.2337	0.3108	18.26	110	1.05305	-1.2193	0.1454	0.60
36	0.56333	-0.1591	0.1124	1.26	111	1.56915	-1.8742	0.2148	16.94
37	0.67818	-0.8293	0.2252	5.58	112	0.68791	-1.1862	0.0603	20.61
38	1.61703	0.8670	0.1315	209.58	113	0.86957	-1.5725	0.0649	102.29

N=64241 M1=52.1510 M2=592.3471 Critical Z=171.31

Table 96. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		1.09352	-1.1188	-0.2103			38.55
19		1.39373	1.1453	1.3465			78.09
21		0.87941	0.5131	0.5950	2.1736		31.37
26		0.71190	0.3145	-0.4904	0.2477		26.56
28		0.90130	-0.8393	0.2945	1.9371		85.20
30		0.99227	-1.0983	0.7964			27.80
35		0.34818	-1.1723	0.9841	0.8895		330.20
42		0.69863	-1.7949	-0.1358	0.7124		78.31
45		0.83743	-1.5322	0.3990	1.4935		135.68
51		1.16766	-0.5652	1.9899			80.04
103		0.68912	-0.7636	-1.7359			97.28
104		0.78805	-1.3606	-1.3853	-1.3097		21.51
114		0.86558	-1.7597	-0.2215			117.26
115		0.77398	-0.9311	-1.4765			64.65

N=64241 M1=52.1510 M2=592.3471 Critical Z=171.31

Table 97. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Reading (Spanish)

Item	Source Year	a	b	c	Fit-Z	Item	Source Year	a	b	c	Fit-Z
4	2004	0.83	0.55	0.18	-0.1	39	2004	0.47	-0.26	0.20	-0.6
5	2005	1.08	0.40	0.26	-0.4	40	2004	0.85	-1.09	0.20	-0.4
6	2005	0.37	-0.98	0.20	1.1	41	2004	0.75	0.07	0.20	0.1
7	2004	1.64	1.44	0.27	-0.2	43	2004	0.79	1.02	0.17	-0.5
8	2004	0.50	2.47	0.22	0.0	46	2004	0.86	-1.13	0.20	-0.5
9	2004	0.86	-0.09	0.31	-0.2	47	2004	1.39	2.34	0.34	-0.9
10	2004	0.67	0.02	0.30	0.0	48	2004	0.99	1.82	0.27	2.4
11	2004	0.17	-1.09	0.20	-0.6	91	2004	0.88	-1.58	0.20	-0.7
12	2004	0.24	3.74	0.20	0.9	92	2004	0.58	-0.77	0.20	2.7
15	2004	0.26	-1.31	0.20	-1.1	93	2005	0.94	-0.07	0.20	0.5
16	2004	0.61	-0.87	0.20	-0.1	94	2004	0.55	-1.11	0.20	0.5
17	2004	0.33	-2.10	0.20	-0.2	95	2004	0.80	-1.43	0.20	0.6
18	2004	0.65	-0.91	0.20	0.4	96	2005	0.98	-0.24	0.24	0.3
19	2004	0.87	-2.42	0.20	-0.1	99	2004	0.50	0.62	0.20	0.8
20	2004	0.14	0.37	0.20	1.3	101	2004	0.67	0.49	0.18	-1.1
21	2004	0.91	-0.01	0.18	-0.3	102	2004	0.95	0.76	0.18	0.3
22	2004	0.92	0.25	0.16	-0.1	103	2004	0.81	-1.02	0.20	0.3
23	2004	0.57	0.30	0.20	2.9	104	2004	0.87	-0.03	0.35	0.7
24	2007	0.58	-0.48	0.20	-0.5	105	2007	0.56	0.06	0.20	-0.3
26	2004	0.36	0.36	0.20	0.0	106	2004	1.09	1.37	0.18	-0.2
27	2005	1.29	-0.76	0.40	0.2	107	2004	1.08	0.59	0.24	-0.2
28	2004	0.46	-0.70	0.20	-1.2	109	2004	0.50	-0.55	0.20	0.1
30	2004	0.46	1.17	0.20	-1.4	110	2004	0.51	0.50	0.20	-0.3
32	2007	0.74	0.91	0.20	-0.4	111	2004	0.96	-0.50	0.21	1.3
35	2004	0.94	-0.95	0.20	-1.5	112	2004	0.48	0.09	0.20	1.1
36	2004	1.19	0.02	0.18	0.6	113	2004	0.32	-1.53	0.20	1.7
37	2004	0.87	-1.01	0.20	-0.3	114	2004	0.70	-0.31	0.21	-1.1
38	2004	0.77	0.92	0.20	0.1	115	2004	0.82	0.19	0.24	-0.3

2004 Pre-Equated N=523 M1=33.6050 M2=534.8632 Critical Z=1.39
2005 Pre-Equated N=489 M1=39.5116 M2=550.2315 Critical Z=1.30
2007 Pre-Equated N=264 M1=36.1958 M2=514.4683 Critical Z=0.70

Table 98. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Reading (Spanish)

Item	Part	Source Year	f	g1	g2	g3	g4	Fit-Z
13		2004	0.57	-0.60	-0.85	0.97		0.1
14		2004	0.44	0.17	2.84			0.7
29		2004	0.92	-1.39	-0.76	-1.82		-2.0
31		2007	1.13	1.92	1.17			-1.1
33		2004	0.51	-0.10	0.50	0.59		1.2
34		2004	0.82	-0.60	-0.16	-0.21		1.3
42		2004	0.71	0.29	0.84			-0.3
44		2004	0.53	-0.16	-0.41			1.7
45		2007	0.68	0.24	0.39	1.66		-0.7
97		2004	0.51	-0.50	0.36			-0.7
98		2004	0.59	-0.40	0.16	0.37		-1.1
100		2004	0.74	-0.30	0.90			-1.7
108		2004	0.74	-0.47	-1.38			0.5
116		2004	0.45	0.79	-1.94	1.37		1.4

2004 Pre-Equated N=523 M1=33.6050 M2=534.8632 Critical Z=1.39
2007 Pre-Equated N=264 M1=36.1958 M2=514.4683 Critical Z=0.70

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Table 99. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
54	0.72291	-2.2974	0.1672	3.56	74	1.11356	-1.4977	0.3479	9.92
55	0.62471	-3.0393	0.1672	5.30	75	0.58197	-2.2328	0.2000	33.09
56	0.79044	0.4630	0.2757	4.69	76	0.56651	-0.1602	0.1022	7.04
57	0.79530	-0.4108	0.3189	1.84	78	0.71708	-0.3112	0.1311	18.75
58	0.72620	-2.1384	0.2000	4.16	79	0.80334	-1.7277	0.2000	12.03
59	0.56897	-2.6284	0.2000	12.87	80	1.44660	-1.3203	0.2784	36.13
60	0.51025	-2.3267	0.1672	9.70	81	1.11541	-1.5453	0.2234	62.20
61	0.56468	0.7383	0.1601	6.65	82	0.85800	-0.9305	0.2140	2.49
62	0.53436	-1.5694	0.1672	12.55	83	1.08678	-1.3174	0.1750	16.10
63	0.93601	-1.9928	0.0984	11.77	84	1.03567	-0.6726	0.1160	23.46
64	0.60386	0.5045	0.1899	8.60	85	1.27961	-1.2050	0.2070	11.68
65	0.93375	-0.3038	0.1568	9.70	86	0.78206	0.0292	0.1137	23.92
66	0.46184	-1.4806	0.2000	43.24	87	0.60225	-1.9768	0.1672	55.43
67	0.77358	-0.3502	0.1448	4.56	88	0.46467	1.5137	0.1672	74.67
68	0.64368	-0.0030	0.1903	2.87	89	0.88769	0.3093	0.2107	23.92
69	0.65189	-2.1864	0.1167	4.99	90	0.84483	0.7944	0.3472	11.24
70	0.54514	-2.9429	0.2000	7.08	91	1.35015	-1.3785	0.2647	20.64
71	0.47265	0.2054	0.2000	4.08	92	0.88871	-0.8211	0.1512	26.23
72	0.66150	-0.1773	0.1763	3.87	93	1.07909	-1.0007	0.1753	19.40
73	0.92831	-1.0967	0.2808	5.39	94	0.91109	-0.1946	0.1338	46.39

N=64108 M1=44.471 M2=492.2773 Critical Z=170.95

Table 100. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.89056	-4.7635				1.29
2	A	0.50226	-0.4949				118.78
2	B	1.33091	-1.8683				26.24
2	C	0.63329	-0.1634				24.80
2	D	0.89706	-0.8955				26.43
2	E	1.22967	0.1893				5.22
2	F	0.91342	-3.1685				10.42
3	A	1.28772	-3.1376	-3.4594	-0.3695	1.5502	436.31
3	B	1.49996	-6.1593	-3.2579	-0.2751	1.7603	100.32
3	C	1.76188	-4.5949	-3.3029			26.83
77		0.79798	-2.5416	-2.1447	-0.2678	1.4944	149.29
95		0.70779	-1.3905	-1.6524	0.6918	1.8661	208.44
116		0.98755	-3.2106	-2.5959	-0.0880	2.4132	69.94

N=64108 M1=44.471 M2=492.2773 Critical Z=170.95

Table 101. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Writing (Spanish)

Item	Source Year	a	b	c	Fit-Z	Item	Source Year	a	b	c	Fit-Z
49	2004	0.63	-1.77	0.20	0.0	70	2004	0.91	0.74	0.20	-0.5
50	2004	0.77	-1.13	0.20	-0.4	71	2004	0.56	0.45	0.20	2.2
51	2004	0.61	-1.44	0.20	0.5	72	2004	0.64	0.31	0.20	-0.1
52	2004	0.41	1.19	0.20	-0.1	73	2004	0.63	1.09	0.22	-1.1
53	2004	0.73	-2.73	0.20	-1.3	74	2004	0.96	-0.16	0.30	3.7
54	2004	0.55	-0.15	0.20	0.9	75	2004	0.37	1.69	0.21	-0.5
55	2005	0.56	-1.26	0.20	1.4	76	2004	0.63	0.98	0.20	-0.3
56	2004	0.56	-1.38	0.20	1.0	77	2004	0.66	1.31	0.23	-1.1
57	2004	0.67	0.91	0.19	-0.7	78	2004	1.22	1.17	0.22	-0.8
58	2004	1.01	0.64	0.31	0.9	79	2004	0.23	-0.69	0.20	1.8
59	2004	0.65	0.81	0.20	-0.5	80	2004	1.64	1.21	0.26	-1.0
60	2004	0.49	0.23	0.20	-0.7	81	2005	0.92	0.48	0.30	-0.9
61	2004	1.10	0.64	0.30	-0.2	82	2004	1.27	0.63	0.18	0.3
62	2004	0.59	2.15	0.19	-0.8	83	2005	0.52	0.21	0.19	0.8
64	2004	0.87	0.97	0.24	-0.2	84	2005	1.02	0.50	0.20	-0.6
65	2004	1.09	-0.58	0.23	-1.5	85	2004	1.10	0.81	0.19	1.5
66	2004	1.12	0.33	0.35	0.5	86	2004	0.32	2.81	0.20	-0.8
67	2004	1.21	0.10	0.26	-0.7	87	2004	0.95	1.37	0.19	-0.1
68	2004	1.28	-0.24	0.20	-0.3	88	2004	0.77	-0.23	0.20	-0.6
69	2004	1.01	0.07	0.19	0.4	89	2004	0.72	0.65	0.19	-0.5

2004 Pre-Equated N=526 M1=38.1156 M2=519.2253 Critical Z=1.40
2005 Pre-Equated N=490 M1=36.9687 M2=524.4168 Critical Z=1.31

Table 102. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Writing (Spanish)

Item	Part	Source Year	f	g1	g2	g3	g4	Fit-Z
1		2005	0.44	-3.42				-1.7
2	A	2002	1.40	-2.79				-0.9
2	B	2002	1.11	-0.58				-0.2
2	C	2002	0.85	-1.11				-0.1
2	D	2002	0.54	-0.75				-0.1
2	E	2002	1.21	-0.81				0.2
2	F	2002	1.25	0.74				-0.5
3	A	2005	0.66	-0.06	-1.80	-0.33	2.52	1.6
3	B	2005	1.09	-3.73	-2.60	-0.00	3.15	-1.2
3	C	2005	1.14	-4.33	1.14			1.0
25		2005	0.57	0.21	-1.43	0.08	1.90	1.2
63		2007	0.72	-1.65	-1.25	0.99	2.18	-2.6
90		2005	0.46	0.35	-2.18	-0.20	1.00	-1.1

2002 Pre-Equated N=1001 M1=39.9142 M2=522.7280 Critical Z=2.67
2005 Pre-Equated N=490 M1=36.9687 M2=524.4168 Critical Z=1.31
2007 Pre-Equated N=264 M1=33.0014 M2=508.4550 Critical Z=0.70

Table 103. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.95468	-0.2549	0.1082	10.79	36	1.20209	-0.3623	0.2028	8.44
2	0.86979	0.3280	0.2169	5.34	37	1.02876	-1.1380	0.3383	14.73
3	0.77174	-1.2782	0.2000	7.70	38	1.40516	0.9729	0.2193	68.93
4	0.68601	-2.4327	0.1249	7.60	39	0.36353	-2.5085	0.2000	4.96
5	0.75289	-2.7021	0.1676	19.50	41	1.22512	0.2127	0.1360	11.57
6	0.66107	-2.3159	0.2000	8.66	42	0.87190	0.5786	0.4364	9.02
7	1.11333	-1.0444	0.1132	3.86	43	0.88243	-0.5655	0.1856	6.31
9	0.88124	0.0797	0.2401	0.94	44	0.98929	-0.1395	0.2622	22.87
10	0.63020	-2.5379	0.2000	19.31	45	0.55484	-1.8485	0.1676	3.24
12	1.10615	-0.1079	0.2540	11.60	47	1.08537	-0.9099	0.1496	0.51
13	0.21594	-2.2693	0.2000	44.51	48	0.90289	-0.7078	0.1730	8.14
14	1.17512	-0.2989	0.1432	4.80	49	1.10815	-0.2482	0.1222	29.00
15	0.34416	-1.0963	0.2000	26.39	50	1.53056	0.4155	0.1688	12.94
16	1.01433	-0.8369	0.1188	8.05	52	0.98002	-0.4010	0.1534	7.34
18	0.52639	-2.4054	0.2000	55.66	53	0.71315	-2.1615	0.1091	3.20
19	0.76600	-1.6547	0.1926	4.11	54	0.61278	-0.9867	0.1231	0.49
21	0.70042	-1.3714	0.1042	1.95	56	0.83377	-1.3623	0.2029	1.54
22	1.08758	-0.0088	0.1080	5.69	57	1.04264	-0.1140	0.1682	5.05
24	0.87973	-0.2982	0.0915	4.52	58	0.46119	-3.9718	0.2000	29.23
25	0.41771	-0.3239	0.2160	9.75	59	0.87006	0.0216	0.1669	11.86
26	1.07600	-3.0855	0.2000	17.96	61	0.79815	-2.3447	0.2000	9.17
27	0.66509	-2.8413	0.2000	39.27	62	1.31597	-0.5316	0.1010	3.54
29	1.23836	-0.5940	0.2613	4.46	63	0.42588	0.6017	0.2101	31.09
31	1.13177	-0.4869	0.0784	10.25	65	0.61642	-3.4911	0.2000	23.40
32	0.60174	-1.5875	0.1676	11.61	66	0.65907	-0.6976	0.2423	17.53
33	0.64345	-0.3826	0.2500	0.77	67	0.94582	-1.0317	0.1676	0.37
35	0.58077	-2.1728	0.1676	7.03	68	0.96546	-0.4634	0.1879	1.37

N=64238 M1=69.1757 M2=499.3157 Critical Z=171.30

Table 104. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
8		1.13173	-0.8512	0.1261			270.63
11		0.75068	-2.4065	-2.2598	-1.6461		15.79
17		1.12929	-0.3573	0.8927			15.50
20		0.65806	-0.2487	0.0731	0.2042		50.42
23		1.12283	-2.6863	-0.1554	0.4732	1.1899	46.05
28		0.91226	0.7486	3.6163			9.14
30		1.18549	-0.5719	0.2409	2.3942		88.24
34		0.96490	-0.0528	-1.7155			50.37
40		0.83498	-1.1135	-0.1730	0.3152		69.27
46		0.60253	-0.4700	-0.4868	0.0910	-1.5361	134.47
51		1.29634	1.2640	1.0038			34.02
55		0.83010	-1.3142	-0.7037	-0.0959		12.68
60		1.08974	-0.7133	-0.3246			42.68
64		0.81993	-0.1112	-0.1190	-0.1225		168.43
69		0.66879	-0.8282	-0.4153	0.5015	-0.4056	50.26

N=64238 M1=69.1757 M2=499.3157 Critical Z=171.30

Table 105. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.72415	-0.6916	0.2126	11.31	42	1.06547	-0.7844	0.4761	21.71
6	0.28048	1.7697	0.2000	7.93	43	0.72074	-0.5701	0.1785	3.30
7	0.98673	-0.4857	0.1731	4.32	44	0.48042	-0.5456	0.0596	19.74
8	1.08821	-1.2152	0.2581	4.15	45	0.61943	0.5244	0.2062	8.33
9	0.93144	0.0274	0.1487	4.57	46	1.10880	-0.6283	0.2144	6.31
10	0.51749	-0.3661	0.1296	9.27	48	1.34547	-1.0965	0.2423	5.98
11	0.37244	-0.2131	0.1169	5.16	49	0.71984	-0.1045	0.1704	23.81
13	0.87743	-0.5658	0.2237	23.38	50	0.73383	0.2883	0.2529	10.69
14	0.95817	1.5075	0.2664	23.05	94	0.37511	-0.3043	0.2000	125.13
15	0.56371	0.7347	0.2183	6.50	95	1.03758	-2.0565	0.1261	26.50
17	0.49410	1.4075	0.2454	9.35	97	0.84222	-0.7444	0.3383	4.49
20	0.29172	0.1079	0.2000	163.56	98	0.41512	-0.0322	0.2000	5.71
21	0.51701	-0.2370	0.1031	5.36	99	0.95334	1.7837	0.1823	16.51
22	0.70268	-0.6583	0.1943	23.07	100	0.72643	2.2262	0.2748	23.42
23	1.01955	-0.2172	0.2609	9.12	101	0.60627	-0.3656	0.1894	2.46
24	0.72911	-0.2484	0.2655	4.02	102	0.25545	0.4476	0.2000	7.47
26	0.86694	0.5641	0.1720	14.46	104	0.59951	-0.4622	0.1628	9.99
28	0.95115	-0.9379	0.2150	12.73	105	0.75593	1.0029	0.1714	4.74
30	0.89288	-0.8632	0.2701	3.33	106	0.46286	-0.9471	0.1874	0.45
31	0.80345	-1.7091	0.1937	12.33	107	0.63988	-2.0644	0.2000	66.61
32	0.63662	0.5850	0.1039	35.98	108	0.58598	-1.0542	0.1874	74.14
34	0.49304	0.9945	0.1315	8.88	109	0.79714	-1.2944	0.0942	3.46
35	1.34391	-0.8013	0.2945	2.20	110	0.41996	-0.5757	0.0966	14.05
36	0.53678	-0.2825	0.1339	4.35	111	0.70643	-1.2855	0.0563	8.94
37	1.02714	0.0312	0.2584	5.50	112	0.66742	-0.4826	0.1648	30.11
38	1.17008	0.2110	0.2619	12.10	114	0.56387	-1.3690	0.2000	5.08
41	0.83501	-0.4017	0.2083	30.12	115	0.91696	-1.3764	0.1557	9.35

N=63147 M1=56.6357 M2=619.6170 Critical Z=168.39

Table 106. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.79038	-0.9122	0.5713	2.4888		68.67
12		0.74875	-0.4700	0.8360	0.8200		94.99
16		1.39205	0.9216	0.9453			64.06
18		0.88955	0.1830	0.2886	2.3193		24.54
25		1.18363	-0.0247	2.8889			28.62
27		1.21480	-0.3756	1.8734			53.11
29		0.71519	-0.7505	0.0105	2.1772		59.93
33		1.05977	-1.8308	-0.2997	2.3704		48.74
39		0.97239	-0.0157	-0.7018	0.6290		64.31
40		0.88982	-1.2254	0.7192	1.2450		127.91
47		1.39143	-0.9695	2.1236			103.75
51		1.02160	-0.6091	1.0434			25.01
96		0.66398	-0.1251	2.1661			24.14
113		1.05805	-1.2816	1.3143			85.23

N=63147 M1=56.6357 M2=619.6170 Critical Z=168.39

Table 107. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
52	1.06114	-0.4171	0.3123	5.44	72	0.54881	0.2165	0.1558	4.47
53	0.58279	-0.6563	0.1085	0.79	73	0.61212	-1.4174	0.2070	23.56
54	0.12777	2.4654	0.2000	3.22	75	1.27753	-0.9187	0.2724	12.87
55	0.94293	-0.6157	0.2305	5.51	76	1.12762	-1.2697	0.3689	5.45
56	0.65015	-1.0509	0.2000	5.71	77	0.44880	-2.8109	0.2000	4.01
57	1.06974	-1.6075	0.2376	10.75	78	0.72015	-1.4182	0.1014	38.28
58	0.64193	0.5097	0.1940	2.55	79	0.91612	-0.0481	0.3207	12.36
59	0.85310	-1.5347	0.2534	1.26	80	0.42153	0.5869	0.1960	27.03
60	0.48269	-0.0947	0.2000	14.78	81	1.12156	-0.5805	0.2271	10.22
61	1.29516	-0.4603	0.2714	12.21	82	0.53507	-0.7039	0.0846	51.99
62	0.80740	-1.4064	0.1463	4.55	83	0.98862	-1.3053	0.2103	9.21
63	1.12343	-1.1937	0.2888	4.95	84	0.90197	-0.2767	0.2320	7.86
64	0.67539	0.0792	0.1956	11.08	85	0.44333	1.2433	0.1011	71.43
65	0.95215	-1.3391	0.2814	2.74	86	0.47798	-2.2502	0.2000	10.92
66	0.67994	-0.7174	0.1030	15.01	87	0.73229	-0.4462	0.2000	21.67
67	0.85728	-0.4652	0.1551	4.39	88	1.09597	-1.8626	0.1570	4.16
68	0.98809	-1.2866	0.2771	8.22	89	0.73276	-0.0717	0.1969	1.87
69	0.92586	-0.7467	0.2451	7.15	90	0.82549	1.1088	0.2870	13.60
70	1.00694	-0.3558	0.2681	10.26	91	0.63524	-0.2988	0.0829	30.01
71	0.84338	-0.8923	0.2021	14.48	92	1.34051	-1.1139	0.3610	4.34

N=62909 M1=48.9496 M2=507.2876 Critical Z=167.76

Table 108. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.99354	-5.2442				6.57
2	A	1.36173	-0.1196				25.03
2	B	0.84105	-0.8547				8.83
2	C	0.95298	-1.0866				26.49
2	D	0.82220	0.0146				0.53
2	E	1.50661	-2.4653				8.94
2	F	1.13681	-1.0072				38.60
3	A	1.63941	-5.0378	-5.0675	-2.0341	1.0599	365.45
3	B	1.77661	-7.2820	-4.2407	-1.6958	1.1537	76.27
3	C	1.83747	-5.1046	-3.7505			25.86
74		0.87724	-3.0613	-2.2912	-0.3418	1.7876	84.93
93		0.72319	-1.0509	-2.2497	-0.3835	1.9044	383.90
116		0.92414	-2.9658	-2.9678	-0.5439	1.8647	49.78

N=62909 M1=48.9496 M2=507.2876 Critical Z=167.76

Table 109. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.82061	-0.0490	0.2663	19.40	35	1.20184	1.0204	0.2176	11.81
2	0.63048	0.5241	0.3418	4.69	36	1.24627	-0.5075	0.2170	3.98
3	1.05203	-1.0418	0.0600	13.67	37	0.99833	-2.3464	0.1861	40.19
5	0.68280	0.3446	0.4296	6.54	38	0.62389	-2.2025	0.1861	13.17
6	0.73575	0.0837	0.2835	2.71	40	0.96436	-0.7251	0.1323	1.19
7	1.01231	0.3488	0.1428	2.95	41	1.12871	1.1626	0.3837	16.23
9	0.86229	-1.3372	0.1224	2.02	42	1.01316	-1.9929	0.1303	11.44
10	0.38365	-1.6893	0.2000	13.48	44	0.51168	-1.0260	0.1770	1.05
11	0.79885	-1.7363	0.1470	3.29	45	0.50933	-0.5981	0.0721	9.86
12	0.79328	-0.9089	0.1229	21.35	47	1.02303	-0.9946	0.2132	2.79
13	1.06467	-1.3786	0.2899	2.93	48	0.92238	0.0634	0.1988	1.22
15	0.89291	-0.8811	0.1515	1.29	49	0.52808	-1.9681	0.1861	13.73
16	1.05052	-0.6525	0.1537	23.28	50	0.80577	-0.7958	0.0751	15.93
17	0.93681	-1.0042	0.1890	12.52	51	0.82609	-1.7093	0.2000	3.37
19	1.11792	0.2507	0.0964	17.37	53	1.02480	0.9588	0.3845	28.92
20	0.80617	-1.4861	0.2000	6.71	54	1.29498	1.2564	0.4117	3.59
21	0.99679	-0.6926	0.1232	4.56	56	1.02057	-0.1330	0.2053	10.03
22	0.83844	1.3315	0.3429	6.17	57	0.85995	-1.7196	0.2000	4.89
24	1.21370	0.0413	0.2995	10.14	58	0.91123	-1.0204	0.1044	1.40
25	1.20960	0.5404	0.2517	5.87	60	0.69649	-0.9508	0.2367	11.21
26	0.97752	-0.9076	0.1061	10.59	61	0.63078	-1.1286	0.2000	2.76
27	0.72884	-2.6641	0.2000	5.68	62	0.61203	-2.4525	0.2000	6.39
29	0.37273	1.9274	0.0487	8.16	63	1.09648	-0.1015	0.2149	7.98
31	0.78099	0.6058	0.2127	6.12	65	0.64771	-2.4761	0.2000	17.61
32	0.45782	-0.6723	0.0961	5.68	66	0.96899	-0.2097	0.3077	24.89
33	0.78499	-0.3222	0.0898	8.22	67	0.88039	-0.8373	0.0831	10.24
34	1.19897	-0.9296	0.2163	1.15	68	0.88777	0.4899	0.2131	1.85

N=63306 M1=67.2178 M2=525.0944 Critical Z=168.82

Table 110. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.28904	-2.4292	-0.1060			75.18
8		0.79398	-4.2810	1.3916	0.2961		99.44
18		0.58207	-0.3469	-0.3588	0.0807		45.92
23		0.91074	-0.6350	-0.8303	0.1300	0.4494	149.52
28		1.23572	-0.8864	0.1755			30.34
30		1.19457	-1.0922	-0.2959	1.9336		136.18
39		1.00785	1.3012	0.4701			58.39
43		0.92999	-2.3672	-0.7601	0.0479		24.34
46		0.81988	-2.6238	-0.8663	-0.3440	-0.5327	66.12
52		0.88687	-1.1914	0.6018			388.77
55		0.95240	-1.7440	-0.6666	0.4752		2.90
59		1.25160	0.6301	-0.8309			38.71
64		0.91262	-1.7244	-1.2280	-0.5160		2.85
69		0.96506	-2.6653	-1.0673	-0.2171	1.6618	84.07

N=63306 M1=67.2178 M2=525.0944 Critical Z=168.82

Table 111. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Science

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.88834	-1.5686	0.2000	18.67	39	0.75262	1.6357	0.2542	3.65
2	0.48630	-1.6020	0.2000	24.20	40	0.53672	-0.1458	0.2620	7.97
3	0.74864	-0.4575	0.0501	33.08	41	0.58509	-1.3286	0.0883	2.02
4	0.80099	-0.8429	0.2913	5.27	43	0.96421	2.4006	0.2368	25.10
5	1.00544	-0.4042	0.2108	10.42	44	0.60227	1.3392	0.1449	1.80
6	0.73036	1.2140	0.1628	5.43	46	0.48368	-0.6829	0.1892	20.30
8	1.05439	-1.1438	0.1630	4.74	47	0.40342	-2.4481	0.2000	5.02
9	0.21471	-3.8571	0.2000	58.32	49	0.86972	1.6510	0.1322	3.36
10	0.22187	1.2365	0.2000	16.10	50	0.40041	-3.3278	0.2000	48.25
11	0.54124	0.4624	0.1663	3.54	51	0.57059	-2.1048	0.2000	22.97
12	0.27991	1.6258	0.2000	3.32	52	0.76529	-0.2269	0.3737	6.91
13	0.80856	1.7377	0.1603	3.42	53	0.93431	1.7924	0.1144	6.74
14	0.44842	1.3672	0.0409	-0.06	54	0.62546	0.1574	0.2247	2.09
15	1.08293	-0.6488	0.2057	10.49	55	1.02335	1.3411	0.2034	4.43
16	1.04894	0.9243	0.1790	6.48	56	0.97817	0.4529	0.2808	7.99
17	0.60416	0.6784	0.1892	153.21	58	0.43928	0.2276	0.2000	6.24
18	1.00910	-0.4891	0.1430	3.91	59	0.58595	-1.3499	0.0824	2.90
19	0.86345	-0.9836	0.2283	1.06	60	0.97107	0.3178	0.1257	6.48
20	1.19531	1.4856	0.1519	57.05	62	1.40113	0.5872	0.2672	18.23
26	0.51515	-2.5764	0.2000	11.44	63	0.75038	-0.1866	0.1869	1.98
27	0.68092	-3.6575	0.2000	20.60	65	0.50275	-0.3716	0.1624	10.38
28	1.13675	0.4193	0.3097	4.51	66	0.73135	-0.2334	0.2120	22.04
29	0.62092	-1.6229	0.2000	9.06	67	0.30317	-1.5260	0.2000	7.54
30	0.40944	-0.3568	0.1892	15.37	69	0.70706	-0.0421	0.4278	6.62
32	0.62573	0.3029	0.4997	145.38	70	0.87481	0.5270	0.2218	7.76
34	0.65479	0.9189	0.1616	6.75	71	0.75097	1.3713	0.1712	5.35
35	0.48663	0.5059	0.1233	2.16	72	0.58625	-1.2564	0.2000	30.76
36	0.55648	-0.3516	0.1813	2.25	74	0.99031	1.2720	0.1365	35.98
37	0.74419	-1.0510	0.3257	8.93					

N=63222 M1=58.7667 M2=505.9205 Critical Z=168.59

Table 112. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Science

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		1.66124	1.5130				7.50
21		1.56353	0.6669				48.79
22		1.16912	-0.5161				18.53
23		0.60731	-0.1256	0.5992			113.91
24		1.16919	0.4968				10.69
25		0.57607	0.2065	-1.3980			33.10
31		0.97403	-1.0334	0.0501			28.08
33		1.09322	-0.5399				63.46
38		1.04629	-0.1692	1.8510			49.52
42		1.16019	1.8480	3.4078			134.20
45		0.97867	-0.7524	0.8275			41.69
48		1.07788	1.7958	1.4266			26.62
57		1.10940	1.6877	-0.4101			62.31
61		1.13190	-1.0076	0.1721			46.85
64		0.90328	0.9515	-1.1395			25.46
68		0.74605	-0.7439	-0.0776			34.85
73		0.95325	0.1850	0.1946			49.45
75		0.94323	-0.7645	-0.9175			12.07

N=63222 M1=58.7667 M2=505.9205 Critical Z=168.59

Table 113. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.54802	-2.8077	0.2000	26.44	39	0.49513	-0.5156	0.0853	4.41
5	0.69168	-2.1763	0.2000	6.05	41	0.41224	1.5989	0.1637	28.15
6	0.60715	-2.0098	0.2000	25.64	42	0.43289	-1.3873	0.1044	3.23
7	0.83538	0.0646	0.3953	5.98	43	0.37577	-0.4571	0.2000	138.66
9	0.63939	1.5981	0.1158	8.80	44	1.27905	1.1813	0.1666	188.70
10	0.44035	-0.6604	0.1886	6.11	47	0.34654	1.0154	0.1332	22.27
11	0.71933	-1.1691	0.2000	2.02	48	0.56184	0.8184	0.3156	1.19
14	0.96089	-0.7957	0.1390	1.89	50	0.92867	0.0698	0.4127	13.29
15	1.07425	-1.5482	0.2146	4.72	51	0.83786	-0.0876	0.2871	5.01
16	0.85406	-0.4209	0.1264	0.72	52	0.71605	0.2461	0.1972	3.09
17	0.87686	-0.8197	0.2241	2.69	53	0.87827	0.2338	0.1993	5.04
18	0.70174	-0.4637	0.3066	8.92	54	0.52371	-1.2426	0.1886	93.72
20	0.75796	0.1570	0.1875	10.08	55	0.49142	1.1527	0.3025	26.91
22	0.84873	-1.7660	0.2000	30.64	98	0.69728	-0.0168	0.1778	3.24
23	0.88725	-1.8449	0.0574	50.08	99	0.80126	-0.5136	0.1754	16.14
24	1.38915	-1.2892	0.2309	3.00	100	0.97649	-2.4225	0.1270	16.70
25	0.72233	-0.2398	0.1187	15.98	101	0.55975	-1.7464	0.2000	35.92
26	0.76456	-0.4679	0.2334	7.75	103	0.90085	0.0405	0.3144	14.74
28	1.07711	-0.4316	0.1619	18.74	104	0.66707	-1.0719	0.1127	37.52
30	0.39288	0.7154	0.0464	12.94	106	0.63622	-0.2244	0.3725	5.55
31	0.93678	-1.0216	0.1765	19.58	107	1.16274	-0.5760	0.2586	8.56
32	0.48224	-0.2461	0.2237	0.87	108	0.92162	-0.6872	0.1853	7.94
33	1.24193	-1.1487	0.2421	2.36	111	0.75296	-1.3496	0.1068	3.04
34	0.90764	-0.9027	0.1462	2.69	112	1.23860	0.2786	0.2665	13.96
35	0.75805	-1.7987	0.2000	25.77	113	1.45656	-0.6013	0.2062	7.78
36	0.79799	-1.1543	0.1508	2.26	114	1.10187	0.2313	0.3637	11.50
37	1.40045	-1.3778	0.2105	5.85	115	1.03058	-1.8955	0.1312	6.73
38	0.70366	-1.2138	0.1886	41.71					

N=62166 M1=52.9981 M2=637.3796 Critical Z=165.78

Table 114. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
8		0.68850	0.4355	1.5686			105.28
12		0.83508	-1.1337	0.1544	1.8900		49.82
19		1.05675	-0.6778	2.0029			22.40
21		1.04360	-0.9961	1.2281			62.88
27		0.96948	-0.8145	1.0329	2.6997		10.95
29		0.87524	-0.4109	-0.1289	0.4975		21.86
40		1.16319	-0.0534	2.1029			20.18
45		0.99493	-1.8049	-1.2266			9.19
46		1.09396	-0.5996	1.3600	3.0164		14.71
49		0.66568	0.1823	0.2248			59.84
102		0.72448	-1.3847	0.1252	2.0140		65.75
105		0.64139	0.0309	1.8894	1.1938		66.70
109		1.08487	0.2617	0.7192			27.89
110		0.84335	-1.7177	1.5851			30.53

N=62166 M1=52.9981 M2=637.3796 Critical Z=165.78

Table 115. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
56	0.78481	-1.3647	0.2000	12.99	77	0.52668	-0.2117	0.1668	2.10
57	0.75014	-0.5429	0.2490	1.63	78	0.73916	-0.2191	0.3094	25.00
58	0.97253	-1.3325	0.1440	25.63	79	0.86254	-0.5788	0.1869	3.02
59	1.30250	1.3459	0.3741	39.67	80	0.30423	-1.0616	0.2000	6.35
60	0.83005	0.9515	0.2330	17.81	81	0.76470	-0.8723	0.1681	3.34
61	1.22030	-1.4243	0.1416	13.92	82	0.59064	-0.5925	0.2097	170.37
62	0.86266	-1.8617	0.1997	6.18	83	0.76045	0.9521	0.2047	17.70
63	1.09084	-1.6568	0.2000	14.04	84	0.55442	-0.0382	0.2000	59.41
64	0.45938	-0.6435	0.2000	61.19	85	1.16442	-0.9062	0.2413	16.67
65	1.19651	-1.4031	0.2444	10.94	86	1.41094	-1.1340	0.2084	45.73
66	1.06450	-1.1093	0.2403	7.94	87	0.63451	-0.1804	0.1846	6.73
67	0.84351	0.9344	0.2203	8.00	88	0.79383	-0.4912	0.1338	30.02
68	1.03440	-1.0181	0.2322	9.28	89	0.72182	-0.0477	0.2559	11.92
69	0.53554	1.1755	0.2888	4.59	90	1.09615	-0.3513	0.2424	13.23
70	0.61740	-0.9824	0.0988	5.63	91	0.73053	0.1650	0.1580	12.56
72	0.87365	-0.4152	0.3498	16.73	92	0.65661	-0.0500	0.2170	18.38
73	1.18140	1.8227	0.3642	12.08	93	1.23323	-1.1060	0.2720	14.64
74	1.22501	-1.1008	0.1503	5.81	94	0.42238	1.2454	0.0629	42.83
75	1.24394	-1.5016	0.1569	73.42	95	1.72752	-0.3994	0.2521	29.92
76	0.62694	0.2624	0.2104	4.56	96	1.08964	-0.3859	0.2622	10.35

N=62630 M1=52.9383 M2=525.1498 Critical Z=167.01

Table 116. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.25618	-5.9644				3.19
2	A	0.67392	-3.7336				5.95
2	B	0.95275	-1.3402				9.62
2	C	1.46801	-2.1265				11.46
2	D	0.95225	0.4516				24.00
2	E	1.48894	-0.8677				18.39
2	F	0.81556	2.5999				5.30
3	A	1.16878	-3.0320	-4.3433	-1.0885	0.9039	217.98
3	B	1.28451	-5.3928	-3.9104	-0.8880	1.0495	44.26
3	C	1.77472	-5.6859	-4.2160			14.41
71		0.97135	-2.5363	-2.9415	-0.6436	2.1729	150.89
97		0.73883	-1.0627	-2.0503	-0.5689	1.4732	400.51
116		0.96647	-2.4585	-2.3026	-0.5309	1.1294	41.54

N=62630 M1=52.9383 M2=525.1498 Critical Z=167.01

Table 117. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	1.13482	-0.2884	0.3906	10.69	32	0.78481	-1.4615	0.2219	9.05
2	0.87403	-1.9780	0.1831	51.35	33	0.72460	-0.4106	0.3735	7.52
3	1.13640	0.0514	0.2828	4.04	34	1.28953	0.8882	0.1619	11.37
5	1.27587	0.6908	0.4462	52.51	35	1.27679	0.9455	0.4563	43.31
7	0.80701	-1.4951	0.3016	12.38	36	0.72313	-0.0504	0.1765	11.17
8	1.52285	-0.1204	0.0851	9.35	38	1.03071	0.1872	0.1082	12.06
9	0.83520	-1.6856	0.0834	21.39	39	1.44495	-0.2268	0.3574	1.57
10	0.96169	0.4000	0.1491	3.30	41	1.09614	-0.4140	0.2055	5.42
11	0.74827	-0.6995	0.2592	4.38	42	0.83165	-0.2680	0.0732	20.89
13	0.64264	-0.4559	0.0553	53.84	43	1.18966	0.0336	0.2216	5.02
14	1.23434	-0.5665	0.1197	3.67	44	0.66039	-0.3772	0.1065	6.08
15	1.01450	-0.4973	0.1874	0.79	46	0.74887	-0.6612	0.1075	4.67
17	1.16903	0.5488	0.1538	4.42	48	0.98762	-0.0882	0.0652	11.01
18	1.13258	-0.1654	0.0422	6.57	49	0.66598	-1.0487	0.0707	5.92
19	1.77744	1.3428	0.1050	214.43	50	0.69454	-1.7532	0.0730	4.27
21	0.59978	-0.9639	0.2000	4.65	52	0.77451	-0.4171	0.1327	3.31
22	0.58378	-0.4851	0.1831	94.66	53	1.02538	0.7683	0.4908	15.58
23	1.57278	-0.2128	0.4488	8.54	54	1.14709	0.4107	0.2047	18.14
25	0.73264	-1.0219	0.1831	101.68	55	1.82313	0.6950	0.2823	100.48
26	0.64173	-0.7933	0.2056	7.62	57	1.26759	1.2063	0.1598	47.56
27	0.76906	0.9574	0.2426	7.88	58	0.71051	-0.0755	0.1987	-0.35
29	0.96310	-1.3915	0.0287	19.99	59	1.66915	1.0908	0.1097	103.19
31	1.17046	0.7365	0.1189	17.38					

N=62661 M1=67.5494 M2=549.0240 Critical Z=167.10

Table 118. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.78174	-0.1768	-0.8617			34.96
6		0.77687	-4.7158	1.1206	-0.1256		95.22
12		1.14392	-0.9615	-0.4707	1.4994		179.96
16		0.98382	-1.0907	0.9519			164.99
20		1.30134	-2.1753	-1.5460	-1.0746	2.3567	30.57
24		1.03174	-0.4838	-1.6769			20.22
28		1.10509	-3.6854	-1.3127	-0.5030		57.33
30		1.00953	-1.3514	-0.0313	0.5825		166.00
37		0.86955	-1.7029	-1.5865			12.12
40		0.75027	-0.9915	0.7256	1.3357	0.6325	271.28
45		0.96857	0.6619	0.5921			123.39
47		0.73844	0.0707	-1.0116			53.01
51		1.21986	-0.8536	-1.6051	1.1563		183.11
56		0.83833	-0.0857	-0.4019	-0.0567		66.70
60		1.40168	-2.8674	-1.1720	-0.2348	1.0596	79.38

N=62661 M1=67.5494 M2=549.0240 Critical Z=167.10

Table 119. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
5	0.59575	-1.5173	0.0775	5.90	38	0.90132	-1.3201	0.2000	0.61
7	0.89746	0.2197	0.1322	14.17	39	0.74682	-1.8045	0.1953	2.83
8	0.40803	-1.9063	0.2000	14.45	41	0.49781	-0.5127	0.1697	14.96
9	0.33745	-1.3593	0.1164	1.95	42	0.39387	-2.0916	0.0000	2.41
10	0.58687	-2.5676	0.2000	7.39	43	1.27797	-1.7738	0.1890	4.96
11	0.61575	-0.7427	0.2000	85.01	44	1.06514	-1.7896	0.1695	9.25
14	0.46586	-1.3777	0.0868	3.62	46	0.75943	-1.1128	0.1625	9.32
15	1.14264	-1.8543	0.2092	4.45	47	1.21725	-1.7075	0.1153	4.92
16	0.48814	-0.8271	0.2000	36.80	49	1.22249	-1.0981	0.1756	7.32
17	0.62829	2.4009	0.2813	5.15	50	0.82831	-0.0521	0.2334	21.56
18	1.09518	-0.3350	0.1622	13.94	51	1.18672	-1.0591	0.1457	4.73
19	0.75029	-0.1994	0.3507	5.24	95	1.09874	-1.7635	0.2394	15.04
20	0.79357	-0.7451	0.2224	7.90	96	0.70374	-1.5903	0.1484	9.93
21	1.28135	-0.5342	0.2631	8.88	97	0.41978	-2.3202	0.2000	24.06
22	0.40457	0.1334	0.2000	29.25	98	0.49886	-0.1382	0.1569	1.02
23	0.53870	-1.0391	0.0737	5.81	99	0.64019	0.7183	0.2514	4.68
25	0.80244	1.0012	0.1683	13.87	100	0.39998	-0.4461	0.2000	50.78
26	1.18721	-1.2038	0.2676	10.62	101	1.05747	-0.6771	0.2289	6.14
27	0.42970	-0.4236	0.1697	37.27	102	1.16234	-1.7786	0.2216	6.99
28	0.60968	-1.4632	0.1317	1.78	103	0.62853	-0.7521	0.1697	53.38
29	0.61279	-1.0317	0.2184	5.54	104	0.74280	-1.2224	0.2000	15.69
30	0.55448	-1.9942	0.2000	19.25	106	0.91827	-1.0894	0.1438	4.38
31	0.49767	-1.1869	0.1697	4.58	110	0.96423	0.1278	0.2578	9.26
32	0.67859	-0.4604	0.1793	3.39	111	0.43869	-1.4266	0.1697	8.70
33	0.87384	-0.5430	0.3030	10.47	112	0.38896	-0.8747	0.2000	58.62
34	0.60011	-1.6600	0.1366	24.65	113	1.02135	-0.4233	0.1269	9.99
36	0.47327	-1.3893	0.2000	37.92	114	0.56551	-0.3723	0.1492	6.58
37	1.11926	-1.1163	0.2780	21.48					

N=61993 M1=53.8096 M2=653.3520 Critical Z=165.31

Table 120. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.85118	-2.0961	0.5742	2.6622		66.31
12		0.86587	-0.9799	0.7144			10.29
13		0.93464	-0.4701	-1.4925			61.58
24		0.85467	-1.6325	1.1740	1.6536	2.1710	66.82
35		0.52116	-0.2941	1.6379	0.9610		60.61
40		0.66374	0.2733	1.5183			11.88
45		0.85814	-0.7935	-1.4607			8.71
48		1.38090	-0.7247	0.8660			88.71
52		1.15260	-0.4782	1.2194	2.0453		22.00
105		0.83102	-1.4412	0.8509	2.6692		11.76
107		0.76763	-0.8535	-0.6384	0.0486		20.21
108		0.89182	-0.9778	0.4175			70.46
109		0.60225	-0.6073	0.8036			21.91
115		0.66522	-0.5155	1.6224			52.08

N=61993 M1=53.8096 M2=653.3520 Critical Z=165.31

Table 121. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
53	0.47529	-1.6249	0.2000	17.31	73	0.67540	-0.7335	0.0690	7.42
54	0.25828	-0.4273	0.2000	61.62	75	0.77732	-0.9451	0.2866	8.25
55	1.03456	0.9447	0.3981	31.13	76	1.03429	1.5634	0.2087	17.67
56	1.05041	-2.1463	0.2000	3.92	77	0.39145	-0.8453	0.2000	11.27
57	0.75770	-0.0605	0.1014	5.54	78	0.58674	-0.1519	0.1732	0.73
58	1.02804	-1.6165	0.1695	3.46	79	1.79358	-1.4639	0.3515	16.59
59	0.71386	-1.5228	0.0814	4.01	80	0.57656	-0.5770	0.0843	5.35
60	1.01372	-0.4632	0.2224	10.44	81	0.77576	1.3095	0.1823	25.21
61	0.95790	-1.1723	0.1599	2.65	82	1.00448	-0.9683	0.1424	25.65
62	1.00263	-0.9113	0.2537	6.81	83	0.95234	-0.8119	0.1465	3.70
63	0.39400	-2.0739	0.2000	77.83	84	1.41690	-1.3365	0.2656	20.68
64	1.54995	-1.3762	0.1861	14.01	85	1.12921	-0.9635	0.2407	7.63
65	0.46046	0.2237	0.1396	3.32	86	0.82690	-0.9779	0.0924	31.95
66	0.63543	-1.6876	0.1741	44.81	87	0.94628	-0.7025	0.0741	30.65
67	1.08893	-1.1378	0.1147	10.96	88	0.86935	-0.5601	0.1890	0.80
68	0.34140	-0.3416	0.2000	20.98	89	1.29467	-0.7418	0.2267	8.82
69	1.11902	-0.8072	0.1174	16.04	90	0.80740	1.5630	0.1306	10.84
70	0.40204	0.1772	0.1777	47.10	91	0.57739	0.2462	0.1389	19.12
71	1.19712	-0.9361	0.1775	5.90	92	1.04289	-0.8025	0.1808	6.65
72	0.94757	-0.7879	0.1845	8.78	93	1.61915	-0.5624	0.1589	21.87

N=61915 M1=62.2418 M2=560.3864 Critical Z=165.11

Table 122. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.07816	-5.3104				2.90
2	A	1.10049	-0.8090				-1.41
2	B	0.75159	0.2916				11.83
2	C	1.05004	0.7733				42.94
2	D	1.10042	4.4309				19.49
2	E	0.40166	-0.5358				49.16
2	F	1.11793	-0.7161				6.19
3	A	0.81781	-0.1713	-2.1504	0.3688	1.5150	530.51
3	B	1.15877	-5.8383	-2.7423	0.3346	1.7818	68.50
3	C	1.51489	-5.2301	-3.2452			29.68
74		0.94499	-2.5619	-2.8813	-0.4905	1.6036	109.55
94		0.89333	-1.5504	-2.7723	-0.0446	2.5664	253.46
116		0.90089	-2.4445	-2.6461	0.0303	1.6608	110.94

N=61915 M1=62.2418 M2=560.3864 Critical Z=165.11

Table 123. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.68625	0.7221	0.2276	21.37	32	1.43480	-0.2613	0.4297	5.42
2	0.58137	-2.2040	0.2000	20.94	33	0.93784	0.3930	0.1540	5.84
4	1.22062	0.2117	0.1019	6.28	34	1.50333	2.1584	0.1161	87.41
5	0.82948	0.4263	0.2199	-0.03	36	1.13769	-0.6225	0.1057	11.41
7	0.79890	-0.9141	0.1900	1.09	37	1.73012	1.0347	0.0994	145.71
8	0.82441	1.4792	0.2447	3.30	38	1.22759	-0.4568	0.2449	0.92
9	1.27849	1.5199	0.1235	6.97	39	0.97595	-0.1192	0.2000	4.16
11	0.86511	0.0282	0.2691	40.27	41	1.27722	0.8235	0.4577	11.23
12	0.77432	1.6233	0.1387	26.05	42	0.96090	1.0705	0.1649	35.06
13	0.91031	-0.1922	0.1876	9.32	44	1.06459	0.0982	0.1893	3.70
15	1.49257	1.6855	0.2188	187.18	45	0.42433	-0.3979	0.2000	21.48
16	1.65094	0.6389	0.2602	106.96	47	1.17262	0.1718	0.2227	2.13
17	0.75337	1.2433	0.0884	17.66	48	1.29033	0.5628	0.1987	113.55
18	0.86159	1.1652	0.3207	7.22	49	0.82957	0.7490	0.2950	0.52
19	1.07114	0.7711	0.1423	10.70	51	1.07418	0.1803	0.2083	3.24
21	0.89325	0.8319	0.2487	0.39	52	1.47133	1.4729	0.3390	9.31
22	0.43072	0.5845	0.1143	42.92	53	0.89081	-0.1839	0.1476	27.65
24	0.82530	0.7112	0.0814	5.77	55	1.50343	1.0054	0.1068	65.60
25	1.09149	2.0351	0.2836	7.34	56	0.78256	-1.2074	0.0848	8.58
27	0.76679	-1.4178	0.2000	18.74	57	0.67921	1.3306	0.0967	3.68
28	1.13399	0.9924	0.1986	6.29	58	1.09128	-0.0746	0.1967	10.89
29	0.58580	1.4872	0.2162	3.00	59	0.62983	1.7477	0.2204	15.25
31	0.97074	-0.1197	0.2103	7.18					

N=61982 M1=68.7005 M2=566.0264 Critical Z=165.29

Table 124. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
3		0.86574	2.5062	-1.7344			26.95
6		1.34593	-2.1217	-1.6042	0.8258		143.13
10		0.59994	0.8937	1.2747			1049.55
14		1.39882	-0.5624	-0.1855	0.5980		97.70
20		1.08023	-0.5715	1.7839	1.5056	0.8157	226.06
23		1.00463	2.3806	-4.1246			40.23
26		1.02142	-0.4443	-1.1811	0.6638		167.50
30		0.82837	2.2811	-1.3525			101.20
35		1.31899	-0.9264	1.4791	2.5005		51.11
40		0.85537	0.7370	-0.9098	0.6928	0.8315	27.67
43		1.08557	-0.0874	0.4291			179.11
46		0.86482	-0.0612	-0.4666	-0.1890		61.90
50		0.57875	-1.5950	0.5827			102.47
54		0.87440	-0.6047	0.7811	2.1186		50.65
60		0.87824	-0.6474	0.3778	0.4826	2.7727	105.39

N=61982 M1=68.7005 M2=566.0264 Critical Z=165.29

Table 125. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
5	0.63265	-1.5920	0.1647	1.93	39	0.60517	-0.2379	0.1507	2.21
7	0.84053	-0.1710	0.1211	4.97	40	0.85134	-1.8594	0.1722	3.86
8	0.40137	-2.0987	0.2000	28.09	41	0.98330	-0.2042	0.1946	7.40
9	0.37422	-1.1235	0.2000	2.63	43	0.58611	-1.7490	0.1647	14.61
11	1.02079	-2.0831	0.0725	18.72	44	0.54014	-0.8778	0.1430	5.49
12	0.41287	-2.2592	0.2000	85.26	46	0.57812	-1.8827	0.1647	31.75
13	0.31021	-1.7186	0.2000	9.68	47	0.76153	-1.2910	0.0905	5.02
14	0.86978	-1.1452	0.2530	14.84	49	1.17158	-2.0283	0.0991	6.95
15	0.85366	-0.9277	0.1692	2.49	51	1.13158	-1.3081	0.2082	2.73
16	0.69214	-1.7839	0.0656	7.27	52	0.74189	-0.1833	0.2352	13.63
17	0.63217	0.9040	0.1068	22.54	53	0.97447	-1.2401	0.1309	3.37
18	0.51955	-1.4390	0.2000	115.65	97	0.55410	-0.0099	0.2000	5.04
21	0.62381	-1.2046	0.2000	0.44	98	0.17360	0.7064	0.2000	122.97
22	1.09828	-1.8614	0.0931	7.36	99	0.57090	-0.0541	0.0840	3.98
23	0.93992	-0.6850	0.2278	3.37	101	0.34328	-1.5959	0.2000	21.91
24	0.67266	-0.3200	0.2273	2.10	102	0.61283	-1.3125	0.0604	7.08
25	1.16704	1.0188	0.2587	33.15	103	0.70545	0.2070	0.1968	6.34
27	0.90125	-0.9123	0.1188	3.91	104	0.68691	1.4997	0.1944	10.12
28	0.82121	0.3195	0.2485	5.73	105	0.58854	-1.9491	0.1647	18.29
29	0.97042	0.4438	0.2321	10.58	106	0.59429	2.6800	0.2546	4.76
31	1.18669	-0.7234	0.3234	4.87	107	0.88450	1.4958	0.3055	6.53
32	0.71154	-0.9158	0.2594	2.20	108	0.45558	0.1608	0.2000	4.65
33	0.96198	-0.6119	0.1591	10.66	111	0.51973	2.4595	0.2000	69.23
34	0.82684	-0.1267	0.2272	3.62	112	0.35011	-0.8576	0.2000	57.79
35	0.47167	-2.8694	0.2000	26.39	113	0.21718	-0.9902	0.2000	75.37
36	0.47893	-0.5023	0.1647	6.40	114	0.67603	-1.3586	0.0762	1.96
37	0.57577	-2.4186	0.2000	16.38	115	1.06482	-1.1786	0.1996	6.37
38	0.61348	-0.7066	0.2000	2.11					

N=60625 M1=49.8610 M2=659.0289 Critical Z=161.67

Table 126. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.82131	-2.3131	0.3575	2.3608		48.03
10		0.84609	-1.3171	0.3032			35.94
19		0.93460	-1.3833	-0.2051			28.34
20		0.63994	-1.7811	1.5668	-1.5451		33.10
26		0.82469	-1.3989	-0.0984	1.1076		67.36
30		1.23102	-0.8620	0.4222	2.2140		78.07
42		0.98636	1.4195	-0.9360			83.02
45		0.75410	0.3175	0.0107			18.30
48		0.96405	-1.4317	-0.6925	1.2619		35.44
50		1.28534	-0.8256	0.7980			106.64
54		0.99822	-0.7581	0.8893	1.7346		19.06
100		0.46616	-0.5148	0.9285	1.1468		53.97
109		0.70272	0.4865	0.2911			3.86
110		0.67332	0.0680	0.2562			107.60

N=60625 M1=49.8610 M2=659.0289 Critical Z=161.67

Table 127. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
55	0.87542	-0.5824	0.3736	5.90	76	1.22036	-1.7706	0.2000	100.19
56	0.99655	-0.4127	0.2784	7.04	77	0.74859	-2.2004	0.2000	44.63
57	0.16405	1.6878	0.2000	72.66	78	1.03471	0.0592	0.2893	15.78
58	1.00470	-1.5568	0.2380	2.93	79	1.18263	-1.1442	0.2042	8.51
59	0.16879	-6.6797	0.2000	70.21	80	0.87570	-0.8580	0.2232	29.50
60	0.89447	-2.3028	0.2000	21.60	81	0.89554	-1.2132	0.2384	-0.08
61	0.29904	-0.1780	0.1345	33.99	82	0.54174	-0.8300	0.1880	42.19
62	1.02609	-1.4132	0.0619	13.75	83	0.94412	0.4187	0.2454	17.51
63	0.86508	-0.1219	0.2509	2.08	84	0.88977	-0.0352	0.2849	12.00
64	0.50237	0.9259	0.2654	1.92	85	0.91207	-0.9995	0.1417	3.38
65	0.63008	-0.1185	0.2270	3.17	86	1.18897	-0.3022	0.1700	11.82
66	0.62862	-0.8571	0.2000	16.86	87	0.77463	0.9119	0.1854	29.75
67	0.59195	0.1796	0.1077	51.22	88	1.35084	-1.3227	0.1231	22.80
68	1.05154	-1.1621	0.2197	6.61	89	1.09634	-1.5253	0.0779	42.67
69	0.50120	-0.5032	0.2000	82.29	90	0.54996	0.3073	0.1641	6.82
70	1.47585	-1.0117	0.2866	7.55	91	0.76227	-0.8223	0.1323	5.04
71	1.33196	-1.2445	0.2812	6.74	92	1.29890	-1.0349	0.2042	10.05
73	0.20032	-1.9885	0.2000	39.20	93	1.05657	-0.8673	0.1473	11.83
74	0.59624	-1.4590	0.1599	1.47	94	0.82778	-0.0497	0.0872	35.50
75	0.67638	-1.1606	0.1425	1.92	95	0.96545	-0.7049	0.0756	28.10

N=60530 M1=62.1905 M2=566.9341 Critical Z=161.41

Table 128. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.01647	-5.2928				1.10
2	A	0.30664	-2.2851				59.10
2	B	1.12981	-0.7938				8.56
2	C	1.06693	0.2023				16.14
2	D	1.15938	-1.2386				11.65
2	E	1.15074	1.0943				7.72
2	F	1.26513	0.0163				11.26
3	A	1.53697	-4.6380	-3.7188	-0.3606	2.1433	214.79
3	B	1.63528	-7.5000	-3.7533	-0.3116	2.2146	76.02
3	C	1.83002	-6.5117	-3.9312			9.11
72		1.05099	-3.4305	-3.1711	-0.1228	2.2522	62.70
96		0.85083	-2.1322	-1.6886	-0.0373	1.6265	176.62
116		0.86541	-2.2115	-2.8398	-0.6822	1.2276	136.23

N=60530 M1=62.1905 M2=566.9341 Critical Z=161.41

Table 129. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.65605	0.7920	0.1435	6.85	29	0.54615	0.8835	0.1948	7.32
2	2.21756	2.1879	0.3998	207.01	30	1.44533	1.4070	0.1719	37.46
3	0.64208	-2.5702	0.2000	25.86	31	0.59019	0.7133	0.2460	24.16
5	1.32045	0.3543	0.1986	42.11	33	0.85844	0.7201	0.0483	49.92
6	0.72771	0.2377	0.2168	34.19	34	1.13083	0.9394	0.0796	18.38
8	0.77581	-0.3806	0.0284	21.94	35	0.57314	-0.3999	0.1705	8.54
9	1.31010	0.4416	0.0801	9.31	37	0.87751	0.2400	0.0241	10.43
11	1.09058	1.3108	0.3510	13.92	38	0.90423	0.6249	0.0846	7.15
12	1.24810	0.4526	0.3112	5.54	39	1.03931	1.2437	0.3112	7.21
13	1.51867	0.4405	0.0809	32.70	41	1.24885	1.3110	0.2778	8.58
15	1.27138	2.0067	0.2571	43.76	43	1.00820	0.7695	0.2232	26.15
16	1.53075	1.0099	0.2155	24.33	45	0.69925	-1.6343	0.0826	6.28
17	0.54136	1.1583	0.2216	-0.14	48	1.17336	-0.3635	0.2162	3.77
18	0.66852	1.3506	0.0958	9.63	49	0.42083	-0.6272	0.2000	10.58
19	0.74782	-1.5348	0.2000	7.56	51	0.54443	0.5890	0.2625	0.05
21	0.71372	0.8891	0.2098	7.22	52	0.77273	0.8130	0.1559	21.56
22	1.06892	-0.2222	0.0962	1.76	53	1.51905	1.2869	0.2957	19.53
23	0.32285	-0.4505	0.1932	11.54	54	1.16469	0.6831	0.2051	1.70
25	0.89669	0.0153	0.0833	27.08	56	1.34266	0.2504	0.1226	27.18
26	1.21529	-0.3684	0.3923	1.00	57	0.80755	0.7265	0.3424	16.73
27	1.32105	0.3495	0.2337	9.12	59	1.25974	0.0850	0.0869	16.08

N=60626 M1=62.4049 M2=579.0388 Critical Z=161.67

Table 130. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.00941	2.2199	-1.8780			13.16
7		1.12498	-1.4588	-0.6894	2.1084		57.92
10		1.04452	-0.1861	-0.4553			47.88
14		0.86083	-0.4288	-0.7006	1.5372		40.06
20		1.27082	0.4339	0.3697	0.8249	2.1787	125.95
24		0.55834	0.0445	1.0629			112.40
28		1.20021	-0.7525	0.5189	1.2137		87.53
32		1.53696	-1.2480	1.6689			156.28
36		0.88345	0.1622	0.8369	1.1203		42.24
40		0.87223	0.1829	-1.0726	0.3786	0.5501	51.42
44		0.75507	2.1716	-1.6625			98.65
47		0.95414	-1.0110	-0.9705	1.1440		218.97
50		1.54413	1.2863	2.0219			19.45
55		0.98690	-1.9154	0.9876	1.7707		251.04
60		1.00271	-3.2827	-0.3463	1.0437	1.1261	105.79

N=60626 M1=62.4049 M2=579.0388 Critical Z=161.67

Table 131. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Science

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.98264	-0.9892	0.2579	6.31	44	0.76575	-0.4078	0.2642	3.84
2	1.00791	-0.5937	0.3368	13.48	45	1.19719	2.4492	0.1812	7.51
3	0.45212	-0.6788	0.1345	13.20	46	0.61538	0.3160	0.3592	10.76
4	0.60809	-0.0180	0.1767	4.20	47	0.70828	0.6098	0.1575	3.00
5	0.80553	0.4140	0.2170	1.54	49	0.74462	0.5812	0.2433	2.00
6	0.85674	0.1692	0.2893	3.16	50	1.17971	0.3989	0.3462	6.06
7	0.76453	0.6136	0.1683	1.93	51	0.61523	-0.2887	0.1776	1.13
8	1.02816	1.1720	0.2800	16.51	52	0.97925	-0.3306	0.2332	29.56
9	0.71086	0.2623	0.1112	5.68	54	1.06074	0.6048	0.1907	28.33
10	0.76152	1.7847	0.2183	2.53	55	0.53652	1.5101	0.2241	0.06
11	0.16377	0.8568	0.2000	13.11	56	0.56991	-0.8962	0.2000	17.84
13	0.70797	-0.3062	0.1053	40.01	57	0.63766	-1.3461	0.2057	11.12
14	1.04654	0.5797	0.3816	4.69	58	0.51663	0.5547	0.2449	1.46
15	0.98276	0.8802	0.3215	5.52	59	0.54349	1.2804	0.2530	2.27
16	0.87608	2.0757	0.2448	11.62	60	0.73599	0.6847	0.2985	5.90
17	1.06476	0.5093	0.2034	18.24	62	0.59966	-1.2902	0.2131	44.55
18	0.45171	-0.0831	0.1061	2.21	63	0.86311	0.3102	0.1274	6.77
26	0.53790	-1.5606	0.2000	17.07	65	1.04730	0.0557	0.2885	40.47
27	0.82132	-1.1110	0.1532	4.36	66	0.57665	1.6748	0.1719	10.59
28	0.61377	0.4287	0.0676	3.02	68	0.30222	-1.7074	0.2000	70.71
29	1.04304	0.3619	0.2965	7.82	69	0.62213	1.2502	0.1426	1.39
31	1.05964	-0.0221	0.3108	9.06	70	0.48574	-0.5917	0.2000	11.39
32	0.90651	1.5901	0.2577	19.46	71	0.81292	-0.0600	0.2254	2.50
34	1.03754	0.4361	0.3137	6.13	73	1.04184	-0.8781	0.2498	3.20
36	0.49329	1.3880	0.2412	2.48	74	0.34307	0.6256	0.0766	61.47
37	0.66726	-0.1528	0.1823	1.10	76	0.27566	0.0256	0.2000	6.24
38	0.83604	-0.2088	0.1304	3.17	77	0.99574	1.3931	0.2217	21.42
39	0.91645	-0.6418	0.1280	1.03	79	0.85642	1.9218	0.3408	2.57
41	1.18272	0.1145	0.1067	10.58	80	0.49656	-0.7923	0.2131	57.13
42	0.62852	0.0215	0.3462	21.42	82	0.95394	1.1491	0.4448	23.17

N=60581 M1=54.0636 M2=510.3646 Critical Z=161.55

Table 132. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Science

Item	Part	f	g1	g2	g3	g4	Fit-Z
12		0.92860	-0.1632	0.0189			78.95
19		0.80605	-0.5100	-0.0841			58.51
20		1.07710	-0.4647				49.90
21		1.20090	-1.8746				9.02
22		0.51381	-0.9325	-0.7373	-0.3927	0.1564	46.57
23		1.55032	-1.6994				29.91
24		0.67071	1.0842				13.97
25		0.90462	0.6886				38.00
30		0.79143	-0.2509	0.5536			115.11
33		0.93657	1.4782				-0.22
35		0.96981	-0.3605				0.79
40		0.76331	2.3681	3.0435			0.95
43		0.73552	0.3468	1.3160			13.35
48		0.78216	-0.6473	2.4189			26.91
53		1.30357	0.3285	1.0994			23.22
61		0.71511	-0.6091	1.5622			20.07
64		1.39513	-0.4468	3.1815			140.15
67		0.75890	-0.3550	0.6586			44.04
72		1.00168	0.7965	2.0778			37.72
75		1.29969	-0.3091	1.1985			123.89
78		0.94419	-1.0070	0.4128			16.13
81		0.88078	0.1882	1.0620			63.84
83		1.06423	4.6633				6.22

N=60581 M1=54.0636 M2=510.3646 Critical Z=161.55

Table 133. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.96372	-0.1054	0.2430	9.92	40	0.75651	0.1111	0.3638	10.17
8	1.13221	-1.7787	0.1967	8.01	42	0.69968	0.6343	0.1185	32.97
9	0.84508	-0.2293	0.4675	10.83	43	0.87236	0.4939	0.3236	17.14
11	0.60606	0.7874	0.1998	29.03	44	0.58162	-1.4305	0.0795	18.22
13	0.86351	-0.9472	0.2459	0.30	45	0.45049	-0.3404	0.2000	53.92
14	1.28009	-1.6763	0.2348	3.00	46	0.59617	0.5668	0.2310	39.62
15	0.78856	0.1347	0.2562	6.05	47	0.37858	-1.5654	0.2000	33.92
16	0.93501	-1.4365	0.1621	8.90	48	0.82635	0.1526	0.3274	61.41
18	0.62345	-1.6143	0.2000	0.71	49	0.92011	-0.3836	0.2531	4.09
19	1.15877	-2.0026	0.0752	6.86	50	1.15313	-0.4100	0.3021	8.95
20	0.87590	-1.0036	0.2284	5.31	51	0.87701	-0.1712	0.2143	21.90
21	0.47373	-1.6458	0.2000	5.03	52	0.43632	-0.7770	0.1949	20.90
22	0.70949	-0.7463	0.2771	6.00	53	0.89785	1.3944	0.1756	17.47
24	1.03242	-1.0555	0.1759	6.90	54	0.91895	0.2373	0.1639	10.12
25	0.59923	1.6341	0.3139	2.24	98	0.93675	-0.3752	0.1873	3.13
27	0.94772	-2.1904	0.2000	17.13	99	1.02613	-1.0998	0.3445	1.72
28	0.55170	-1.8681	0.2000	8.80	101	0.74951	-1.0225	0.0877	0.65
29	0.88728	0.0493	0.2661	4.78	103	0.61413	-0.4503	0.1949	106.75
31	0.52495	0.0059	0.2000	9.77	104	0.74138	-1.8613	0.0718	1.30
32	0.56831	-1.8993	0.2000	6.05	106	0.62160	-0.4135	0.2000	10.36
33	1.05955	-1.4828	0.1966	4.85	107	1.40201	-1.6704	0.1499	17.41
34	0.72398	0.2661	0.1115	6.88	108	0.86000	-1.0169	0.1949	279.84
35	0.99725	-0.9779	0.2138	4.49	110	0.59726	2.3267	0.2000	106.83
36	0.67004	-0.1066	0.1715	6.84	111	0.40344	-0.8753	0.2000	68.66
37	0.49747	0.2204	0.1949	46.23	112	0.37132	-1.3072	0.2000	37.50
38	0.78229	-0.8284	0.1690	0.95	113	0.82347	-1.0777	0.1415	1.62
39	1.42606	-0.1170	0.2899	16.94	114	1.14072	-1.0997	0.1947	10.44

N=60655 M1=44.1479 M2=667.3434 Critical Z=161.75

Table 134. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
6		0.83577	-1.1833	0.5803	2.5969		42.84
10		0.61956	-0.2788	0.7420	-0.0854		71.04
12		0.56413	-0.2115	-0.3105	0.1024		32.43
17		0.60598	-2.0844	1.7069	-1.8699		68.93
23		0.83032	-1.7061	-0.4509	0.7643		44.11
26		0.76860	-1.5359	0.2931	1.7764		41.45
30		0.86735	-1.0998	-0.8527	-0.3465		27.25
41		0.99303	-0.5409	1.0817			12.29
97		0.97996	-1.5909	-1.0895	-0.5002		9.44
100		0.77479	-2.5800	-0.2715	0.8053		63.89
102		0.76351	-1.3631	-0.1498	0.8345		82.21
105		0.50004	-0.1256	1.4299			23.87
109		0.80572	-0.0506	0.3370			132.08
115		0.76892	-0.2416	-0.8301	1.3861		115.04

N=60655 M1=44.1479 M2=667.3434 Critical Z=161.75

Table 135. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
56	0.50023	-0.9420	0.2327	2.92	77	1.53614	3.6189	0.2166	24.45
57	0.42736	-0.9078	0.2000	6.74	78	0.60431	0.3753	0.1425	32.51
58	0.16739	-2.8299	0.2000	38.71	79	1.11086	-0.9998	0.2045	7.42
59	0.84796	-1.7606	0.2261	5.21	80	1.74821	-0.8960	0.2783	10.31
60	0.73252	-1.1247	0.2000	2.42	81	1.22279	-0.9662	0.1942	18.07
61	1.08697	-1.4097	0.1782	4.66	82	1.10087	-0.2919	0.1662	21.71
62	0.50389	-0.2252	0.1667	2.25	83	1.18037	-0.4982	0.2123	6.67
63	1.12571	-0.5767	0.2363	5.56	84	1.46627	-0.8818	0.2429	22.47
64	0.70845	0.1335	0.3133	6.17	85	0.56129	0.9683	0.1763	22.26
65	0.62634	0.2673	0.2000	254.58	86	0.60930	-0.5183	0.0972	48.54
66	0.75220	-0.4383	0.1326	8.65	87	0.92758	-0.3175	0.2086	26.79
67	1.76109	-0.9960	0.1662	15.48	88	2.09445	-1.0057	0.3095	20.28
68	1.70016	-1.2364	0.2628	19.28	89	1.59926	-0.5962	0.2496	12.40
69	0.98071	-0.7331	0.1788	2.23	90	0.34990	-1.7348	0.2000	6.78
70	1.31015	-1.0330	0.2620	5.65	91	1.14849	-0.6624	0.1827	7.54
71	1.27984	-1.1054	0.1867	20.31	92	0.89271	-0.1550	0.0567	97.93
72	1.04989	-0.5610	0.1577	8.46	93	1.21675	-0.3397	0.1932	15.20
73	0.57353	0.0806	0.2733	2.35	94	1.02910	0.6872	0.3032	23.46
74	1.08534	-1.4333	0.1323	26.64	95	1.13505	-0.3297	0.0965	68.00
75	1.03084	-0.7050	0.2790	22.38					

N=60649 M1=68.3419 M2=571.3370 Critical Z=161.73

Table 136. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.12019	-4.8418				6.02
2	A	1.03967	-1.5958				9.89
2	B	1.26322	-0.6840				6.92
2	C	1.16372	-2.4296				5.34
2	D	0.77782	1.6485				7.46
2	E	1.30879	-0.7405				12.66
2	F	0.98693	-0.1575				2.07
3	A	1.51723	-4.2191	-4.2170	-0.7968	1.7841	173.47
3	B	1.53624	-6.0350	-4.1297	-0.6795	1.7733	108.80
3	C	2.00983	-6.6373	-4.9031			20.55
76		0.99084	-2.5735	-3.1357	0.0070	2.1948	96.50
96		0.97648	-2.0560	-1.7555	0.0672	2.4676	178.38
116		0.85523	-1.2469	-2.0379	0.3612	2.5725	469.71

N=60649 M1=68.3419 M2=571.3370 Critical Z=161.73

Table 137. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	1.34168	0.8629	0.2399	59.36	31	1.90494	1.5612	0.2718	6.56
2	1.86850	1.5963	0.1734	149.92	32	1.12114	0.8459	0.1373	18.27
3	0.93123	0.2886	0.2391	0.91	33	1.42171	1.1498	0.1742	58.19
5	0.91255	-0.1222	0.1246	8.33	34	1.60562	1.1111	0.0856	32.24
6	1.03636	0.4461	0.3273	2.95	35	0.86702	-0.2666	0.2507	5.81
7	1.31508	1.2163	0.1007	4.66	37	0.56263	0.7324	0.1552	16.56
9	0.73024	-0.1789	0.0551	9.19	38	1.31662	2.7104	0.1937	30.82
10	0.90469	0.7842	0.1012	8.20	39	0.51586	-0.8095	0.2023	37.31
12	0.98819	0.5494	0.1291	6.97	41	0.61484	-0.5036	0.0790	80.39
13	1.55059	1.9213	0.3788	103.88	42	0.74388	-0.2284	0.2789	5.70
15	1.37336	0.9591	0.2721	35.65	43	0.92471	-1.8331	0.2000	32.93
16	1.49373	1.1729	0.1936	216.78	46	1.76440	1.3078	0.1169	96.69
17	0.55859	1.2092	0.1245	41.67	48	1.57653	1.3249	0.4292	0.92
18	0.73576	0.3334	0.2281	40.55	49	2.29153	1.5827	0.0359	149.66
19	1.61404	1.5656	0.1441	10.65	50	1.05413	0.3700	0.4619	1.65
21	0.75711	0.5531	0.4296	37.58	52	0.67848	0.0542	0.1251	23.18
23	1.74181	1.4618	0.3781	19.57	53	0.70951	-0.6359	0.1876	8.48
24	1.01108	0.2451	0.0931	11.60	55	1.11088	1.1610	0.4101	5.16
26	1.43903	1.6354	0.0861	17.03	56	1.28125	1.8778	0.3207	16.89
27	0.26609	-3.1663	0.2000	239.66	57	2.33403	1.4080	0.2647	123.32
28	0.27161	-0.1631	0.2000	13.12	58	0.67552	-1.8360	0.0832	37.84
30	0.97189	0.7200	0.2712	23.93	59	0.21424	1.4698	0.2000	66.33

N=60625 M1=62.9483 M2=583.4345 Critical Z=161.67

Table 138. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.92138	2.6820	4.2285			89.92
8		1.10198	0.1155	1.4716	-0.9664		34.40
11		1.29540	-0.3517	0.7558			40.76
14		1.56150	2.0445	1.9968	2.7300		35.29
20		0.70864	-1.1304	-0.5501	0.4557	1.6231	46.95
22		1.32977	1.1203	1.2895			126.62
25		0.96924	-0.4953	-0.8242	1.6167		63.05
29		0.87435	1.3285	2.8072			129.37
36		0.82529	0.0544	0.7034	0.9728		69.47
40		1.16332	1.7141	1.2108	1.3089	1.2619	45.24
44		0.84383	-0.1758	0.9043			240.07
47		1.24404	0.3317	2.0753	0.2356		90.56
51		0.80892	-0.6201	-0.9186			93.63
54		1.97296	0.5353	1.3793	3.2731		84.64
60		0.70907	0.3118	-0.4215	1.4857	-0.0450	356.62

N=60625 M1=62.9483 M2=583.4345 Critical Z=161.67

Table 139. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Reading

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.67296	-1.9265	0.2000	6.15	42	1.15944	-0.7343	0.2417	4.83
5	0.72910	-1.6614	0.0663	3.65	44	0.27175	-1.5414	0.2000	28.16
6	0.74325	-1.4292	0.2000	13.05	45	0.58304	-0.5666	0.2000	13.90
8	0.59908	0.7943	0.4295	4.62	46	1.00299	-0.3386	0.2279	3.74
9	0.60102	-1.4884	0.1094	12.99	47	0.79480	0.4018	0.1623	12.43
10	0.62442	-1.2002	0.0983	0.97	48	0.75587	-1.7343	0.1065	10.86
11	0.63626	-1.5205	0.2000	25.38	50	0.38708	-0.7628	0.1709	1.91
13	0.99546	-0.3001	0.1659	8.63	52	0.73718	0.5872	0.1825	6.00
17	1.29545	-1.6026	0.1626	3.19	53	0.63879	-1.4978	0.2000	1.34
18	0.65831	-0.9520	0.2858	18.51	96	0.62804	-1.4130	0.2000	2.81
19	0.94821	0.3615	0.1485	19.29	97	0.58907	-0.3337	0.1667	147.29
20	0.67362	-2.0633	0.1667	4.33	98	1.06856	-0.9882	0.2014	4.43
21	1.18673	-1.1182	0.1932	3.91	99	1.62981	-1.7459	0.1625	14.95
22	0.80544	0.0736	0.1242	3.98	100	0.49490	0.3350	0.1813	20.31
23	0.51182	-2.0052	0.2000	26.16	101	1.02408	-1.2445	0.2478	3.76
24	0.76256	-1.5868	0.1041	13.28	103	0.82032	-1.5426	0.2000	8.52
25	0.39707	-0.0825	0.2000	75.07	104	0.50276	-0.6839	0.1667	37.32
26	1.28627	-1.8283	0.2678	5.71	105	0.74108	-2.0805	0.0772	4.26
28	0.47666	-1.3143	0.1667	3.38	107	0.56777	-0.9398	0.0915	0.06
29	0.73442	-1.2700	0.0810	1.77	108	1.33980	-1.8908	0.1359	7.95
32	0.18578	1.3055	0.2000	111.15	110	0.77386	-1.0115	0.2000	57.58
33	0.31419	0.4927	0.2000	19.44	111	0.77344	-1.3212	0.0348	44.81
34	0.73387	-1.0158	0.2000	2.02	112	0.97105	-0.1742	0.2249	5.85
36	0.12480	5.4366	0.2000	69.42	113	0.39200	-0.0486	0.2298	23.81
39	1.12027	-0.8710	0.3831	4.97	114	0.39258	1.0665	0.1833	4.52
40	0.80882	-0.1504	0.2068	2.87	115	0.44904	-0.8444	0.0733	-0.10
41	0.72980	-1.5187	0.1946	0.88					

N=57285 M1=46.7188 M2=693.5981 Critical Z=152.76

Table 140. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Reading

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		0.52377	-0.4218	0.5912	1.7681		6.06
12		0.78167	-0.8429	0.1996	2.1731		26.49
15		0.97758	-0.8388	0.5850	2.6656		47.55
27		0.45806	-0.1855	-0.3122	0.4174		208.49
30		0.54285	-1.8011	-0.1736	0.9222		213.73
31		0.76102	-1.0784	-0.4575	1.5833		88.52
35		0.93406	-1.4860	0.1357	0.7110		15.15
38		1.45324	-0.2708	1.4980	2.6558		31.43
43		0.98144	-0.9123	0.6082			29.74
49		0.75692	0.2684	0.3155			33.46
51		0.74059	-0.1236	-0.9741	-0.9010		53.18
102		0.80339	-1.4482	-0.3560	0.5555		48.47
106		0.47088	-0.2385	1.0772			32.26
109		0.82689	-1.3485	0.4702	2.1019		59.13

N=57285 M1=46.7188 M2=693.5981 Critical Z=152.76

Table 141. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Writing

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
54	0.54021	0.0863	0.1930	11.54	75	0.80991	-0.8078	0.1482	4.03
55	1.61313	-1.7498	0.2855	15.67	76	1.68138	-1.1724	0.1743	13.50
56	0.55296	0.1009	0.2000	207.67	77	0.94853	-0.2783	0.1176	52.84
57	1.35076	-1.6945	0.0979	18.39	78	0.39610	1.9582	0.1650	4.49
58	0.35283	-1.3074	0.2000	10.16	79	1.42553	-1.2554	0.1943	25.44
59	0.98804	-1.0827	0.1986	2.90	80	1.09607	-1.3074	0.1051	24.20
60	0.99499	-1.2917	0.2003	5.06	81	0.93065	-0.4039	0.1392	28.03
61	1.04567	-0.9149	0.1451	20.27	82	1.90937	-1.4526	0.2992	26.30
62	1.00011	0.7062	0.2338	22.89	83	1.20920	-0.5946	0.1921	7.71
63	1.06816	-1.3410	0.1578	0.01	84	2.12542	-1.2671	0.2570	20.42
64	0.82350	0.7747	0.2993	4.92	85	1.92841	-1.5026	0.2792	13.15
65	1.27571	-0.9777	0.2300	6.93	86	1.00282	-1.1558	0.0823	18.32
66	1.73760	3.4654	0.2268	14.51	87	0.47892	0.0607	0.2000	19.25
67	1.12174	-0.7731	0.2043	6.56	88	1.15761	-0.8785	0.1546	9.02
68	0.52615	0.0346	0.1101	26.67	89	1.10729	-0.5886	0.0933	71.79
69	0.63226	-1.3379	0.2000	145.85	90	1.31461	-1.5221	0.1389	14.36
70	1.29568	-1.0509	0.2228	3.32	91	1.41628	-1.2349	0.1358	13.97
72	1.11669	-1.2249	0.0764	4.76	92	0.49781	0.3870	0.0858	8.57
73	0.61958	0.7641	0.1365	83.54	93	0.51499	0.1000	0.2000	137.64
74	0.43484	0.1822	0.2000	94.19	94	0.91034	0.4829	0.2059	6.82

N=57316 M1=72.3390 M2=576.5481 Critical Z=152.84

Table 142. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Writing

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.99329	-4.6794				2.98
2	A	1.14118	-0.9111				24.85
2	B	0.43160	-0.9552				21.60
2	C	0.66595	-1.2796				0.59
2	D	0.44085	-1.6273				37.98
2	E	1.22521	0.5389				17.47
2	F	0.81268	-1.7190				6.22
3	A	1.34144	-3.6337	-4.1823	-1.2557	1.0299	145.90
3	B	1.38575	-5.6717	-4.1663	-1.2704	1.0343	107.92
3	C	1.70394	-5.6276	-5.0239			31.11
71		0.87546	-1.5589	-2.3172	-0.1916	2.2561	177.54
95		0.98557	-1.6392	-2.4751	0.2863	2.2120	193.10
116		0.96638	-2.0741	-2.5781	-0.2497	1.5707	96.69

N=57316 M1=72.3390 M2=576.5481 Critical Z=152.84

Table 143. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Mathematics

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	1.29618	1.1431	0.3293	8.47	31	1.20959	1.4281	0.3422	7.01
3	0.65312	0.9946	0.1690	3.21	33	0.61296	0.2982	0.3096	3.09
4	1.05347	0.5287	0.3104	7.25	34	1.24981	0.6110	0.1378	7.72
5	0.86018	-0.0317	0.1724	0.00	36	1.41139	0.8654	0.1479	7.67
6	0.76220	1.6823	0.2072	194.87	37	1.05834	0.5317	0.1496	1.60
7	1.84637	1.3183	0.3289	56.57	38	2.01656	1.2158	0.2083	306.22
9	1.52962	0.5778	0.1288	52.56	39	1.50125	1.9367	0.2306	16.45
10	0.99131	0.2308	0.3092	0.75	41	1.91697	1.5413	0.0993	5.92
11	1.44877	1.1409	0.1487	4.67	42	1.85001	2.4595	0.0187	99.09
12	0.44888	0.7943	0.2000	140.27	44	0.74373	1.5738	0.2346	5.08
14	1.00443	1.1050	0.1487	1.40	45	0.95704	1.0217	0.2121	0.38
15	1.38286	1.4547	0.1401	11.94	46	2.06478	1.2622	0.2246	73.33
16	0.96576	0.4343	0.2240	15.84	47	0.81070	0.3464	0.3786	51.62
18	0.64252	-0.6555	0.0342	19.73	49	1.63665	1.3516	0.2211	9.51
19	1.09905	0.4721	0.0440	21.31	50	0.66958	-1.9185	0.2000	52.97
21	0.85812	0.0195	0.4993	45.69	51	2.09376	1.1516	0.0452	68.43
22	0.59301	-0.5384	0.2072	80.46	52	0.83966	1.4600	0.4162	64.95
24	1.03742	-0.2247	0.3603	3.28	54	1.91061	1.1563	0.2269	98.68
25	1.05735	1.0720	0.3060	59.62	55	1.15078	0.2610	0.3335	6.11
26	0.79397	2.4637	0.1409	97.49	56	0.81825	0.4095	0.2174	1.82
28	2.22231	1.1871	0.3242	17.95	58	0.54417	0.9291	0.0944	7.86
29	0.70095	-1.1399	0.2000	11.64	59	0.67244	-0.9393	0.0758	29.69
30	1.31616	1.6091	0.2982	19.98					

N=57447 M1=61.9113 M2=604.5285 Critical Z=153.19

Table 144. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
2		1.29264	-0.1330	2.5070			33.38
8		1.43890	1.5435	1.4742	2.1208		18.32
13		1.56590	-0.5773	0.6432			116.33
17		1.13990	1.3332	1.3452	2.2375		71.04
20		0.78665	-1.3492	-0.8736	0.1855	1.4130	52.68
23		1.62114	0.9398	0.3314			32.43
27		0.80929	-2.0896	1.2610			77.98
32		0.93064	0.7596	2.2792	-0.9345		123.19
35		0.82405	-0.8221	-0.8922	0.5730		83.96
40		1.51538	-0.1794	1.3475	2.0117	3.4231	92.79
43		1.41731	2.0030	-0.4520			46.41
48		1.34596	0.2521	1.5167	2.4424		128.85
53		0.57565	2.2153	-1.3716			61.26
57		1.38222	0.1861	1.0613	0.5499		109.14
60		0.96858	-0.2523	0.7928	0.7528	1.0726	206.55

N=57447 M1=61.9113 M2=604.5285 Critical Z=153.19

Table 145. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Science

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.87571	-0.0821	0.4034	2.54	46	0.27636	2.4503	0.1994	7.12
2	0.53396	-0.6560	0.0637	2.30	47	1.10425	0.6531	0.2396	5.73
5	0.83499	0.1297	0.3623	23.76	48	1.05176	-0.8222	0.2070	3.17
6	0.97217	-0.9120	0.1009	33.03	49	0.55878	0.7142	0.3699	41.39
7	0.71956	-1.2749	0.1965	21.06	50	0.76956	0.4034	0.1468	5.20
8	0.84411	0.6041	0.1450	8.13	51	0.37421	3.1705	0.1681	22.86
9	0.55396	-0.1275	0.2344	0.86	53	0.75958	-1.3345	0.2328	4.07
10	0.41131	1.2044	0.2472	20.81	54	0.24725	0.1063	0.1558	7.07
11	0.80079	-0.2641	0.3111	2.61	55	0.94555	-1.3082	0.1775	6.32
12	1.05904	1.0914	0.2762	2.87	56	0.34986	-0.1852	0.2000	42.30
15	0.86131	0.6132	0.2532	2.00	59	1.27953	1.5806	0.2019	87.22
16	1.00687	0.5629	0.1852	13.36	60	0.59200	0.9176	0.2816	4.17
17	0.43830	-0.1934	0.2000	108.78	61	0.59430	-2.0337	0.1314	10.86
18	0.31365	3.0929	0.2066	7.51	62	0.80402	-0.4173	0.1808	6.58
19	1.01335	0.0244	0.3121	11.71	63	0.42476	0.1511	0.1386	2.55
21	0.72997	1.5558	0.1691	20.55	64	1.00048	-0.0317	0.1346	13.76
28	0.70643	-0.7822	0.1965	35.66	66	0.47870	-0.1774	0.1534	17.02
29	0.53219	-0.2359	0.1044	6.94	68	0.47960	-1.0428	0.2000	13.46
31	0.59522	-0.7026	0.1549	3.78	70	0.43799	0.2630	0.2000	24.18
32	0.73308	1.4523	0.3091	9.01	71	0.70053	0.7248	0.2429	5.02
33	0.54135	1.7831	0.1978	1.71	73	0.58001	1.8616	0.1461	0.92
35	0.64990	0.9958	0.2906	3.68	76	0.62172	0.9367	0.1225	8.74
38	1.36417	1.3970	0.3970	13.89	77	0.96710	0.0799	0.3340	20.74
39	1.30627	0.8200	0.1277	33.16	79	0.56252	0.9730	0.1073	11.18
40	0.23275	2.7236	0.2000	5.34	80	1.14040	0.3253	0.2600	11.35
41	0.48522	1.7216	0.1544	0.15	81	0.61534	-0.1889	0.2491	1.83
44	0.89234	-1.8359	0.1018	35.77	82	0.98799	1.5620	0.2623	8.72
45	0.75854	-1.0936	0.1378	8.02	83	0.42202	-0.0043	0.0883	11.23

N=57405 M1=55.3376 M2=510.6171 Critical Z=153.08

Table 146. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Science

Item	Part	f	g1	g2	g3	g4	Fit-Z
14		0.93433	2.1536	2.9924			10.73
20		0.46901	2.1156	3.5059			4.16
22		0.55021	-0.2435	-0.5035	-0.3211	-0.2357	32.68
23		0.61481	0.2121	-0.5945			42.15
24		0.90074	-0.5024	0.8102			370.65
25		0.76244	0.6119				4.06
26		1.02374	0.5981				16.16
27		0.81454	0.9177				26.58
30		0.62034	1.3278				8.46
34		0.77921	0.0086	0.1559			61.47
36		0.87462	-0.5394	2.0525			30.66
37		0.62787	0.4381	2.2296			40.20
42		0.99523	1.0072				0.83
43		1.07219	0.0554	2.5781			72.00
52		1.14959	0.4468	1.7792			29.02
57		1.04543	-0.1708	2.6009			38.24
65		1.29585	1.9767				23.25
67		1.33619	0.0527	1.3429			13.49
69		1.44370	-0.2509	1.7277			35.23
72		1.25053	1.6272	0.5696			58.52
74		1.92637	2.6264				10.41
75		1.14380	-1.5336	-1.7022			42.01
78		1.15302	0.0974				5.09

N=57405 M1=55.3376 M2=510.6171 Critical Z=153.08

Table 147. Correlations between the Reference and New Form Item Parameters for the 2013 TCAP Administration

Content Area	Grade	Discrimination (a)	Difficulty (b)	Guessing (c)	*p*-Value (p)
Reading	3	0.97	0.97	0.87	0.99
	4	0.95	0.97	0.93	0.99
	5	0.99	0.99	0.92	0.98
	6	0.98	0.98	0.83	0.99
	7	0.94	0.97	0.74	0.98
	8	0.98	0.99	0.73	0.99
	9	0.97	0.98	0.89	0.99
	10	0.97	0.98	0.92	0.98
Writing	3	0.93	0.99	0.78	0.99
	4	0.99	0.99	0.92	0.99
	5	0.98	0.97	0.85	0.99
	6	0.96	0.99	0.78	0.99
	7	0.99	0.99	0.90	1.00
	8	0.98	0.99	0.85	0.99
	9	0.99	0.98	0.87	0.99
	10	0.99	0.99	0.81	1.00
Mathematics	3	0.96	0.99	0.98	0.99
	4	0.98	0.99	0.92	0.99
	5	0.92	0.99	0.92	0.99
	6	0.97	0.97	0.97	0.98
	7	0.96	0.98	0.97	0.99
	8	0.97	0.99	0.97	0.99
	9	0.98	0.98	0.95	0.99
	10	0.96	0.96	0.73	0.99
Science	5	0.98	0.98	0.92	0.99
	8	0.98	0.98	0.93	0.99
	10	0.93	0.99	0.81	0.99

Table 148. Scaling Constants across Grades and Content Areas for Two Administrations

Content Area	Grade	2012		2013	
		Multiplicative	Additive	Multiplicative	Additive
Reading	3	58.8	572.4	63.3	566.9
	4	51.4	593.4	52.2	592.3
	5	56.7	619.7	56.6	619.6
	6	54.2	635.2	53.0	637.4
	7	56.3	647.7	53.8	653.4
	8	52.8	658.1	49.9	659.0
	9	44.4	665.3	44.1	667.3
	10	45.3	688.2	46.7	693.6
Writing	3	43.1	465.2	43.4	464.4
	4	45.4	484.1	44.5	492.3
	5	51.8	508.4	48.9	507.3
	6	55.2	524.6	52.9	525.1
	7	62.7	559.6	62.2	560.4
	8	63.0	567.0	62.2	566.9
	9	67.9	567.1	68.3	571.3
	10	69.7	577.5	72.3	576.5
Mathematics	3	80.7	469.3	81.0	468.0
	4	71.0	503.3	69.2	499.3
	5	67.2	526.0	67.2	525.1
	6	66.1	541.0	67.5	549.0
	7	67.4	563.4	68.7	566.0
	8	64.1	579.5	62.4	579.0
	9	62.7	582.1	62.9	583.4
	10	61.6	600.8	61.9	604.5
Science	5	61.6	502.3	58.8	505.9
	8	54.1	505.9	54.1	510.4
	10	55.6	507.3	55.3	510.6

Table 149. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading

Grade	Content Standard	Item Set	Number Of Items	Percentage
3	CS 1	Anchor Set	16	100.0
		Total Test	40	100.0
	Total	Anchor Set	16	100.0
		Total Test	40	100.0
4	CS 1	Anchor Set	7	35.0
		Total Test	28	40.0
	CS 4	Anchor Set	4	20.0
		Total Test	13	18.6
	CS 5	Anchor Set	5	25.0
		Total Test	14	20.0
	CS 6	Anchor Set	4	20.0
		Total Test	15	21.4
	Total	Anchor Set	20	100.0
		Total Test	70	100.0
5	CS 1	Anchor Set	7	35.0
		Total Test	25	36.8
	CS 4	Anchor Set	5	25.0
		Total Test	15*	22.1
	CS 5	Anchor Set	4	20.0
		Total Test	16	23.5
	CS 6	Anchor Set	4	20.0
		Total Test	12	17.6
	Total	Anchor Set	20	100.0
		Total Test	68	100.0
6	CS 1	Anchor Set	7	38.9
		Total Test	25	36.2
	CS 4	Anchor Set	3	16.7
		Total Test	17	24.6
	CS 5	Anchor Set	5	27.8
		Total Test	15	21.7
	CS 6	Anchor Set	3	16.7
		Total Test	12*	17.4
	Total	Anchor Set	18	100.0
		Total Test	69	100.0

Table 149. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading (cont'd)

Grade	Content Standard	Item Set	Number Of Items	Percentage
7	CS 1	Anchor Set	7	35.0
		Total Test	22*	31.9
	CS 4	Anchor Set	4	20.0
		Total Test	16	23.2
	CS 5	Anchor Set	5	25.0
		Total Test	17	24.6
	CS 6	Anchor Set	4	20.0
		Total Test	14	20.3
	Total	Anchor Set	20	100.0
		Total Test	69	100.0
8	CS 1	Anchor Set	7	35.0
		Total Test	22*	31.9
	CS 4	Anchor Set	4	20.0
		Total Test	16	23.2
	CS 5	Anchor Set	5	25.0
		Total Test	16	23.2
	CS 6	Anchor Set	4	20.0
		Total Test	15	21.7
	Total	Anchor Set	20	100.0
		Total Test	69	100.0
9	CS 1	Anchor Set	8	40.0
		Total Test	25	36.8
	CS 4	Anchor Set	4	20.0
		Total Test	11*	16.2
	CS 5	Anchor Set	4	20.0
		Total Test	19	27.9
	CS 6	Anchor Set	4	20.0
		Total Test	13*	19.1
	Total	Anchor Set	20	100.0
		Total Test	68	100.0

Table 149. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading (cont'd)

Grade	Content Standard	Item Set	Number Of Items	Percentage
10	CS 1	Anchor Set	6	33.3
		Total Test	24*	35.8
	CS 4	Anchor Set	5	27.8
		Total Test	15*	22.4
	CS 5	Anchor Set	4	22.2
		Total Test	17	25.4
	CS 6	Anchor Set	3	16.7
		Total Test	11*	16.4
	Total	Anchor Set	18	100.0
		Total Test	67	100.0

* Content area in which item(s) were removed from the calibration or anchor set. Counts shown in this table do not include removed items.

Table 150. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Writing

Grade	Content Standard	Item Set	Number Of Items	Percentage
3	CS 2	Anchor Set	8	40.0
		Total Test	21	39.6
	CS 3	Anchor Set	12	60.0
		Total Test	32	60.4
	Total	Anchor Set	20	100.0
		Total Test	53	100.0
4	CS 2	Anchor Set	9	45.0
		Total Test	21	39.6
	CS 3	Anchor Set	11	55.0
		Total Test	32	60.4
	Total	Anchor Set	20	100.0
		Total Test	53	100.0
5	CS 2	Anchor Set	9	45.0
		Total Test	21	39.6
	CS 3	Anchor Set	11	55.0
		Total Test	32	60.4
	Total	Anchor Set	20	100.0
		Total Test	53	100.0
6	CS 2	Anchor Set	9	45.0
		Total Test	21	39.6
	CS 3	Anchor Set	11	55.0
		Total Test	32	60.4
	Total	Anchor Set	20	100.0
		Total Test	53	100.0
7	CS 2	Anchor Set	9	45.0
		Total Test	21	39.6
	CS 3	Anchor Set	11	55.0
		Total Test	32	60.4
	Total	Anchor Set	20	100.0
		Total Test	53	100.0
8	CS 2	Anchor Set	9	42.9
		Total Test	21	39.6
	CS 3	Anchor Set	12	57.1
		Total Test	32	60.4
	Total	Anchor Set	21	100.0
		Total Test	53	100.0

Table 150. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Writing (cont'd)

Grade	Content Standard	Item Set	Number Of Items	Percentage
9	CS 2	Anchor Set	8*	42.1
		Total Test	20	38.5
	CS 3	Anchor Set	11	57.9
		Total Test	32	61.5
	Total	Anchor Set	19	100.0
		Total Test	52	100.0
10	CS 2	Anchor Set	10	43.5
		Total Test	21	39.6
	CS 3	Anchor Set	13	56.5
		Total Test	32	60.4
	Total	Anchor Set	23	100.0
		Total Test	53	100.0

* Content area in which item(s) were removed from the calibration or anchor set. Counts shown in this table do not include removed items.

Table 151. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Mathematics

Grade	Content Standard	Item Set	Number Of Items	Percentage
3	CS 1	Anchor Set	4	25.0
		Total Test	8	20.0
	CS 2/3	Anchor Set	3	18.8
		Total Test	11	27.5
	CS 4/5	Anchor Set	5	31.3
		Total Test	14	35.0
	CS 6	Anchor Set	4	25.0
		Total Test	7	17.5
	Total	Anchor Set	16	100.0
		Total Test	40	100.0
4	CS 1	Anchor Set	4	20.0
		Total Test	14	20.3
	CS 2	Anchor Set	3	15.0
		Total Test	9	13.0
	CS 3	Anchor Set	2	10.0
		Total Test	11	15.9
	CS 4/5	Anchor Set	6	30.0
		Total Test	21	30.4
	CS 6	Anchor Set	5	25.0
		Total Test	14	20.3
	Total	Anchor Set	20	100.0
		Total Test	69	100.0
5	CS 1	Anchor Set	5	25.0
		Total Test	16	23.5
	CS 2	Anchor Set	3	15.0
		Total Test	12	17.6
	CS 3	Anchor Set	2	10.0
		Total Test	10*	14.7
	CS 4/5	Anchor Set	5	25.0
		Total Test	14	20.6
	CS 6	Anchor Set	5	25.0
		Total Test	16	23.5
	Total	Anchor Set	20	100.0
		Total Test	68	100.0

Table 151. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Mathematics (cont'd)

Grade	Content Standard	Item Set	Number Of Items	Percentage
6	CS 1	Anchor Set	4	20.0
		Total Test	12	20.0
	CS 2	Anchor Set	5	25.0
		Total Test	10	16.7
	CS 3	Anchor Set	3	15.0
		Total Test	11	18.3
	CS 4/5	Anchor Set	5	25.0
		Total Test	16	26.7
	CS 6	Anchor Set	3	15.0
		Total Test	11	18.3
	Total	Anchor Set	20	100.0
		Total Test	60	100.0
7	CS 1/6	Anchor Set	6	30.0
		Total Test	19	31.7
	CS 2	Anchor Set	4	20.0
		Total Test	12	20.0
	CS 3	Anchor Set	5	25.0
		Total Test	12	20.0
	CS 4/5	Anchor Set	5	25.0
		Total Test	17	28.3
	Total	Anchor Set	20	100.0
		Total Test	60	100.0
8	CS 1/6	Anchor Set	5	25.0
		Total Test	15	26.3
	CS 2	Anchor Set	5	25.0
		Total Test	15	26.3
	CS 3	Anchor Set	5	25.0
		Total Test	12	21.1
	CS 4/5	Anchor Set	5	25.0
		Total Test	15*	26.3
	Total	Anchor Set	20	100.0
		Total Test	57	100.0

Table 151. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Mathematics (cont'd)

Grade	Content Standard	Item Set	Number Of Items	Percentage
9	CS 1/6	Anchor Set	6	33.3
		Total Test	13	22.0
	CS 2	Anchor Set	4	22.2
		Total Test	16	27.1
	CS 3	Anchor Set	3	16.7
		Total Test	15	25.4
	CS 4/5	Anchor Set	5	27.8
		Total Test	15*	25.4
	Total	Anchor Set	18	100.0
		Total Test	59	100.0
10	CS 1/6	Anchor Set	5	25.0
		Total Test	14	23.3
	CS 2	Anchor Set	7	35.0
		Total Test	18	30.0
	CS 3	Anchor Set	3	15.0
		Total Test	14	23.3
	CS 4/5	Anchor Set	5	25.0
		Total Test	14	23.3
	Total	Anchor Set	20	100.0
		Total Test	60	100.0

* Content area in which item(s) were removed from the calibration or anchor set. Counts shown in this table do not include removed items.

Table 152. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Science

Grade	Content Standard	Item Set	Number Of Items	Percentage
5	CS 1/5	Anchor Set	8	40.0
		Total Test	28	37.3
	CS 2	Anchor Set	4	20.0
		Total Test	15	20.0
	CS 3	Anchor Set	4	20.0
		Total Test	16	21.3
	CS 4	Anchor Set	4	20.0
		Total Test	16	21.3
	Total	Anchor Set	20	100.0
		Total Test	75	100.0
8	CS 1/5	Anchor Set	7	35.0
		Total Test	33	39.8
	CS 2	Anchor Set	5	25.0
		Total Test	18	21.7
	CS 3	Anchor Set	4	20.0
		Total Test	15	18.1
	CS 4	Anchor Set	4	20.0
		Total Test	17	20.5
	Total	Anchor Set	20	100.0
		Total Test	83	100.0
10	CS 1/5	Anchor Set	8	40.0
		Total Test	31	38.8
	CS 2	Anchor Set	4	20.0
		Total Test	17*	21.3
	CS 3	Anchor Set	4	20.0
		Total Test	14*	18.8
	CS 4	Anchor Set	4	20.0
		Total Test	17	21.3
	Total	Anchor Set	20	100.0
		Total Test	79	100.0

* Content area in which item(s) were removed from the calibration or anchor set. Counts shown in this table do not include removed items.

Table 153. TCAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading and Writing Spanish

Content	Grade	Content Standard	Item Set	Number Of Items	Percentage
Reading Spanish	3	CS 1	Anchor Set	18	100.0
			Total Test	40	100.0
		Total	Anchor Set	18	100.0
			Total Test	40	100.0
	4	CS 1	Anchor Set	7	38.9
			Total Test	31	44.3
		CS 4	Anchor Set	4	22.2
			Total Test	14	20.0
		CS 5	Anchor Set	4	22.2
			Total Test	13	18.6
		CS 6	Anchor Set	3	16.7
			Total Test	12	17.1
		Total	Anchor Set	18	100.0
			Total Test	70	100.0
Writing Spanish	3	CS 2	Anchor Set	5	27.8
			Total Test	21	39.6
		CS 3	Anchor Set	13	72.2
			Total Test	32	60.4
		Total	Anchor Set	18	100.0
			Total Test	53	100.0
	4	CS 2	Anchor Set	4	22.2
			Total Test	19	35.8
		CS 3	Anchor Set	14	77.8
			Total Test	34	64.2
		Total	Anchor Set	18	100.0
			Total Test	53	100.0

* Content area in which item(s) were removed from the calibration or anchor set. Counts shown in this table do not include removed items.

Table 154. Scale Score Descriptive Statistics by Gender

Content Area	Grade	Gender								Total			
		Female				Male				Total			
		N	Mean	SD	Median	N	Mean	SD	Median	N	Mean	SD	Median
Reading	3	30832	567	75.0	573	32122	550	86.4	563	62959	558	81.4	568
	4	31647	595	57.7	601	32614	581	66.8	591	64263	588	62.9	596
	5	30890	621	63.4	627	32292	603	72.9	614	63188	612	69.0	620
	6	30738	639	58.1	644	31466	621	65.6	630	62206	630	62.7	637
	7	30236	649	58.7	653	31794	632	65.4	640	62036	640	62.8	647
	8	29690	660	54.8	664	30930	642	59.7	649	60624	651	58.1	656
	9	29774	668	47.8	671	30849	651	55.8	657	60668	659	52.7	664
	10	28160	696	50.3	700	29136	675	58.5	683	57302	686	55.6	691
Writing	3	30862	474	49.2	473	32211	458	49.6	459	63076	466	50.1	466
	4	31597	497	49.7	497	32567	478	49.3	480	64166	487	50.4	488
	5	30798	517	53.3	516	32191	496	54.1	498	62995	506	54.8	507
	6	30960	535	55.7	534	31736	512	58.6	513	62698	523	58.4	523
	7	30204	574	67.8	571	31757	545	68.1	545	61967	559	69.5	557
	8	29677	580	67.0	578	30913	550	67.9	553	60594	565	69.1	565
	9	29790	588	73.7	586	30878	558	73.9	560	60713	573	75.3	572
	10	28204	595	77.7	594	29175	561	78.2	562	57385	577	79.8	577
Mathematics	3	31480	465	86.5	467	32794	469	92.8	473	64277	467	89.8	470
	4	31676	492	75.6	496	32685	494	80.5	500	64366	493	78.1	498
	5	30920	521	71.6	523	32338	519	77.9	522	63261	520	74.9	522
	6	30995	542	71.9	542	31767	539	79.5	543	62762	541	75.9	543
	7	30246	566	73.3	569	31828	563	81.3	568	62076	565	77.5	568
	8	29719	578	65.5	580	30961	576	73.7	579	60685	577	69.8	579
	9	29878	579	68.9	583	30966	577	77.6	584	60850	578	73.4	583
	10	28247	591	69.6	597	29270	594	77.1	603	57523	592	73.5	600
Science	5	30894	499	62.9	504	32340	499	67.0	506	63240	499	65.0	505
	8	29667	503	58.4	509	30944	503	63.4	510	60616	503	61.0	509
	10	28218	503	59.1	509	29197	503	66.8	511	57421	503	63.1	510
Reading Spanish	3	594	534	48.2	537	573	515	51.7	521	1167	525	50.8	530
	4	50	517	48.0	524	58	525	45.8	525	108	521	46.8	524
Writing Spanish	3	604	525	75.8	530	574	490	75.3	493	1178	508	77.5	509
	4	48	494	40.6	497	54	495	47.7	499	102	495	44.3	497

Table 155. Scale Score Descriptive Statistics by Content Standard

Content Area	Grade	Content Standard											
		1			**2**			**3**			**4**		
		Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median
Reading	3	558	81.4	568	.	.	.	.	.	.	.	.	.
	4	589	67.2	596	.	.	.	.	.	.	586	93.9	597
	5	612	75.7	620	.	.	.	.	.	.	606	103.2	620
	6	630	72.2	637	.	.	.	.	.	.	629	81.4	637
	7	641	71.4	646	.	.	.	.	.	.	641	80.1	648
	8	652	65.9	656	.	.	.	.	.	.	651	73.6	657
	9	660	64.0	665	.	.	.	.	.	.	659	68.5	664
	10	686	63.4	690	.	.	.	.	.	.	686	66.3	692
Writing	3	.	.	.	468	58.5	467	472	65.4	466	.	.	.
	4	.	.	.	487	55.1	488	492	64.1	489	.	.	.
	5	.	.	.	507	59.8	506	514	74.0	508	.	.	.
	6	.	.	.	524	64.4	523	527	68.7	524	.	.	.
	7	.	.	.	560	76.4	556	562	78.2	558	.	.	.
	8	.	.	.	565	76.1	564	572	86.7	566	.	.	.
	9	.	.	.	573	82.2	572	580	90.4	573	.	.	.
	10	.	.	.	580	88.4	576	584	93.0	578	.	.	.
Mathematics	3	477	119.9	468	472	118.0	473	.	.	.	469	105.2	469
	4	494	90.3	498	511	138.1	499	496	111.3	500	496	92.0	498
	5	522	93.4	523	521	93.3	524	523	92.5	522	526	96.0	523
	6	540	97.8	543	545	93.7	542	541	99.4	543	539	93.6	545
	7	562	91.4	569	568	96.0	569	559	99.1	571	559	95.2	568
	8	573	84.6	580	577	83.1	579	575	86.1	580	575	85.9	579
	9	570	100.9	584	576	83.8	583	576	84.2	583	564	100.7	583
	10	573	108.2	599	590	82.0	600	591	82.5	601	569	111.5	599
Science	5	497	70.7	505	499	81.9	506	501	79.7	504	499	80.4	506
	8	503	66.4	510	501	77.1	509	501	72.5	509	502	77.8	509
	10	503	67.0	511	496	85.2	509	490	92.5	510	503	76.9	508
Reading Spanish	3	525	50.8	530	.	.	.	.	.	.	.	.	.
	4	523	51.0	531	.	.	.	.	.	.	511	63.2	523
Writing Spanish	3	.	.	.	516	85.9	519	505	85.5	504	.	.	.
	4	.	.	.	487	50.7	485	496	54.0	502	.	.	.

Table 155. Scale Score Descriptive Statistics by Content Standard (cont'd)

Content Area	Grade	Content Standard 5 Mean	SD	Median	6 Mean	SD	Median	Total Mean	SD	Median
Reading	3	.	.	.	.	.	.	558	81.4	568
	4	589	99.7	595	587	82.9	596	588	62.9	596
	5	607	92.8	620	608	91.4	619	612	69.0	620
	6	632	88.9	637	629	74.7	635	630	62.7	637
	7	647	88.1	646	640	80.6	646	640	62.8	647
	8	652	78.1	655	651	69.2	655	651	58.1	656
	9	663	79.7	664	659	69.1	663	659	52.7	664
	10	691	82.0	692	687	71.4	690	686	55.6	691
Writing	3	.	.	.	.	.	.	466	50.1	466
	4	.	.	.	.	.	.	487	50.4	488
	5	.	.	.	.	.	.	506	54.8	507
	6	.	.	.	.	.	.	523	58.4	523
	7	.	.	.	.	.	.	559	69.5	557
	8	.	.	.	.	.	.	565	69.1	565
	9	.	.	.	.	.	.	573	75.3	572
	10	.	.	.	.	.	.	577	79.8	577
Mathematics	3	.	.	.	472	113.0	475	467	89.8	470
	4	.	.	.	503	106.0	498	493	78.1	498
	5	.	.	.	537	114.0	525	520	74.9	522
	6	.	.	.	553	117.2	548	541	75.9	543
	7	.	.	.	.	.	.	565	77.5	568
	8	.	.	.	.	.	.	577	69.8	579
	9	.	.	.	.	.	.	578	73.4	583
	10	.	.	.	.	.	.	592	73.5	600
Science	5	.	.	.	.	.	.	499	65.0	505
	8	.	.	.	.	.	.	503	61.0	509
	10	.	.	.	.	.	.	503	63.1	510
Reading Spanish	3	.	.	.	.	.	.	525	50.8	530
	4	517	75.6	530	516	53.1	527	521	46.8	524
Writing Spanish	3	.	.	.	.	.	.	508	77.5	509
	4	.	.	.	.	.	.	495	44.3	497

Table 156. Scale Score Descriptive Statistics by Subcontent Area

Content Area	Grade	Subcontent Area														
		1			2			3			4			5		
		Mean	SD	Med.	Mean	SD	Med.	Mean	SD	Med.	Mean	SD	Med.	Mean	SD	Med.
Reading	3	558	90.3	568	548	128.5	570	577	122.8	568	.	.	.	.	.	.
	4	587	70.1	596	592	88.9	596	601	113.4	596	.	.	.	.	.	.
	5	610	78.5	620	608	97.0	620	626	113.5	621	.	.	.	.	.	.
	6	630	67.6	637	623	92.1	637	640	125.8	639	.	.	.	.	.	.
	7	639	77.2	647	643	80.3	647	677	149.4	647	637	86.6	649	.	.	.
	8	652	68.7	658	653	74.1	655	689	146.7	658	642	95.9	659	.	.	.
	9	658	63.6	665	662	69.7	663	694	133.0	671	649	110.5	666	.	.	.
	10	688	65.0	691	683	72.2	691	700	106.6	693	685	88.3	691	.	.	.
Writing	3	.	.	.	.	.	.	.	.	.	.	.	.	469	59.7	468
	4	.	.	.	.	.	.	.	.	.	.	.	.	487	63.2	488
	5	.	.	.	.	.	.	.	.	.	.	.	.	507	66.9	507
	6	.	.	.	.	.	.	.	.	.	.	.	.	525	69.7	523
	7	.	.	.	.	.	.	.	.	.	.	.	.	562	86.3	558
	8	.	.	.	.	.	.	.	.	.	.	.	.	568	89.5	565
	9	.	.	.	.	.	.	.	.	.	.	.	.	573	90.9	574
	10	.	.	.	.	.	.	.	.	.	.	.	.	578	96.7	579
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	4	494	85.6	498	511	138.1	499	546	164.5	501	.	.	.	.	.	.
	5	525	97.8	523	523	101.2	523	529	108.3	523	.	.	.	.	.	.
	6	541	100.1	544	545	95.8	543	538	107.1	544	.	.	.	.	.	.
	7	555	106.0	570	557	100.7	566	.	.	.	.	.	.	.	.	.
	8	575	86.9	578	562	107.1	579	573	103.4	578	.	.	.	.	.	.
	9	572	107.9	583	564	109.8	583	.	.	.	.	.	.	.	.	.
	10	591	79.6	600	593	111.8	615	.	.	.	.	.	.	.	.	.
Science	5	494	83.0	505	497	88.5	504	.	.	.	.	.	.	.	.	.
	8	498	84.4	510	505	76.0	510	499	85.3	509	.	.	.	495	95.7	502
	10	498	78.7	510	508	80.4	509	.	.	.	495	98.9	509	491	93.8	510
Reading Spanish	3	529	61.0	530	526	65.9	532	522	66.1	526	.	.	.	.	.	.
	4	517	48.1	522	518	59.4	525	535	79.4	536	.	.	.	.	.	.
Writing Spanish	3	.	.	.	.	.	.	.	.	.	.	.	.	528	115.6	538
	4	.	.	.	.	.	.	.	.	.	.	.	.	485	62.3	493

Table 156. Scale Score Descriptive Statistics by Subcontent Area (cont'd)

Content Area	Grade	Subcontent Area 6 Mean	SD	Med.	7 Mean	SD	Med.	8 Mean	SD	Med.	Total Mean	SD	Med.
Reading	3	.	.	.	.	.	.	.	.	.	558	81.4	568
	4	.	.	.	.	.	.	.	.	.	588	62.9	596
	5	.	.	.	.	.	.	.	.	.	612	69.0	620
	6	.	.	.	.	.	.	.	.	.	630	62.7	637
	7	.	.	.	.	.	.	.	.	.	640	62.8	647
	8	.	.	.	.	.	.	.	.	.	651	58.1	656
	9	.	.	.	.	.	.	.	.	.	659	52.7	664
	10	.	.	.	.	.	.	.	.	.	686	55.6	691
Writing	3	.	.	.	485	88.6	467	478	96.8	468	466	50.1	466
	4	509	103.4	515	507	91.2	490	492	99.9	490	487	50.4	488
	5	561	142.7	499	522	93.5	509	522	105.3	508	506	54.8	507
	6	576	158.0	527	531	86.9	525	531	96.6	527	523	58.4	523
	7	578	129.5	523	564	86.4	559	568	107.7	559	559	69.5	557
	8	591	139.6	604	572	95.6	567	590	132.0	574	565	69.1	565
	9	609	161.4	596	610	155.8	574	584	110.9	582	573	75.3	572
	10	642	198.0	572	598	125.2	579	571	139.5	581	577	79.8	577
Mathematics	3	.	.	.	.	.	.	.	.	.	467	89.8	470
	4	.	.	.	.	.	.	.	.	.	493	78.1	498
	5	.	.	.	.	.	.	.	.	.	520	74.9	522
	6	.	.	.	.	.	.	.	.	.	541	75.9	543
	7	.	.	.	.	.	.	.	.	.	565	77.5	568
	8	.	.	.	.	.	.	.	.	.	577	69.8	579
	9	.	.	.	.	.	.	.	.	.	578	73.4	583
	10	.	.	.	.	.	.	.	.	.	592	73.5	600
Science	5	.	.	.	.	.	.	.	.	.	499	65.0	505
	8	501	84.4	508	.	.	.	.	.	.	503	61.0	509
	10	505	88.4	509	.	.	.	.	.	.	503	63.1	510
Reading Spanish	3	.	.	.	.	.	.	.	.	.	525	50.8	530
	4	.	.	.	.	.	.	.	.	.	521	46.8	524
Writing Spanish	3	.	.	.	508	92.2	502	521	121.3	511	508	77.5	509
	4	470	73.5	463	499	79.4	506	478	84.3	491	495	44.3	497

Table 157. Raw Score Descriptive Statistics by Content Standard

Content Area	Grade	1 Mean	1 SD	1 Med.	1 Mean % of Max	2 Mean	2 SD	2 Med.	2 Mean % of Max	3 Mean	3 SD	3 Med.	3 Mean % of Max	4 Mean	4 SD	4 Med.	4 Mean % of Max
Reading	3	31	9.5	33	60.3	.	.	.	.	.	.	.	.	.	.	.	.
	4	25	6.5	26	66.6	.	.	.	.	.	.	.	.	11	3.4	11	58.8
	5	18	5.6	19	58.5	.	.	.	.	.	.	.	.	10	3.6	11	56.0
	6	17	5.3	18	58.1	.	.	.	.	.	.	.	.	13	4.0	13	61.4
	7	17	5.3	18	56.8	.	.	.	.	.	.	.	.	12	3.6	13	61.7
	8	18	5.8	19	61.6	.	.	.	.	.	.	.	.	12	3.6	13	60.8
	9	21	6.1	22	65.0	.	.	.	.	.	.	.	.	11	3.7	11	53.2
	10	19	5.3	19	59.9	.	.	.	.	.	.	.	.	12	3.8	13	59.7
Writing	3	.	.	.	.	18	3.6	18	74.0	25	5.8	26	77.3	.	.	.	.
	4	.	.	.	.	24	5.4	24	65.6	25	5.8	26	75.1	.	.	.	.
	5	.	.	.	.	24	5.5	25	67.7	25	5.8	27	76.3	.	.	.	.
	6	.	.	.	.	24	5.6	24	66.5	24	5.7	25	72.3	.	.	.	.
	7	.	.	.	.	24	5.6	24	65.7	23	5.8	24	68.6	.	.	.	.
	8	.	.	.	.	24	5.6	24	66.5	25	5.8	26	74.6	.	.	.	.
	9	.	.	.	.	23	5.7	24	65.6	24	6.1	26	73.4	.	.	.	.
	10	.	.	.	.	25	5.9	26	68.8	24	5.4	26	73.9	.	.	.	.
Mathematics	3	6	2.5	7	64.5	8	3.7	9	62.5	.	.	.	.	10	3.2	10	56.0
	4	13	3.4	13	66.1	10	3.8	11	69.0	8	3.6	9	59.1	18	6.0	19	61.9
	5	12	4.0	12	62.9	11	4.3	11	57.7	10	3.4	11	61.7	13	4.2	14	65.1
	6	9	4.2	9	54.0	11	3.7	11	62.5	10	4.1	10	55.5	13	5.0	13	57.3
	7	13	6.0	12	48.7	10	3.9	10	58.5	8	3.7	8	46.7	11	5.7	10	41.5
	8	10	5.0	9	45.3	11	4.9	10	48.6	8	3.6	8	49.7	11	5.2	11	47.7
	9	7	3.9	7	43.6	10	5.3	10	41.8	10	4.1	10	47.9	7	4.5	6	31.1
	10	6	3.6	5	35.8	11	5.9	10	41.0	10	3.9	10	47.2	7	4.8	5	30.9
Science	5	18	7.4	18	49.3	10	3.3	10	56.1	10	3.4	11	57.1	10	2.7	10	58.5
	8	21	7.5	21	51.9	11	4.1	11	51.0	9	3.7	9	45.2	9	3.5	9	49.5
	10	21	7.5	22	52.6	8	3.7	8	45.9	6	3.0	6	37.7	9	3.6	9	44.3
Reading Spanish	3	31	10.2	33	60.5	.	.	.	.	.	.	.	.	.	.	.	.
	4	21	7.2	23	58.0	.	.	.	.	.	.	.	.	8	3.5	8	46.3
Writing Spanish	3	.	.	.	.	16	4.9	17	65.7	23	6.0	24	72.0	.	.	.	.
	4	.	.	.	.	16	5.0	15	46.5	17	6.0	17	49.6	.	.	.	.

Table 157. Raw Score Descriptive Statistics by Content Standard (cont'd)

Content Area	Grade	Content Standard 5 Mean	SD	Med.	Mean % of Max	Content Standard 6 Mean	SD	Med.	Mean % of Max	Total Mean	SD	Med.	Mean % of Max
Reading	3	.	.	.	.	.	.	.	.	31	9.5	33	60.3
	4	11	3.9	11	61.8	10	3.8	10	56.2	56	16.0	59	62.1
	5	11	4.1	11	53.4	9	3.7	10	47.0	48	15.5	50	54.3
	6	12	4.0	13	63.0	9	3.4	9	49.2	52	15.1	54	58.0
	7	14	4.0	15	68.8	11	3.7	12	55.5	54	15.2	57	60.3
	8	12	4.0	13	62.0	11	3.7	11	54.8	54	15.5	56	60.0
	9	14	4.2	15	68.1	11	4.0	12	57.2	57	16.4	60	61.5
	10	14	4.3	15	68.3	11	3.8	11	54.2	56	15.5	58	60.6
Writing	3	.	.	.	.	.	.	.	.	42	8.9	45	75.8
	4	.	.	.	.	.	.	.	.	48	10.5	50	70.1
	5	.	.	.	.	.	.	.	.	50	10.7	52	71.8
	6	.	.	.	.	.	.	.	.	48	10.6	49	69.2
	7	.	.	.	.	.	.	.	.	46	10.7	48	67.0
	8	.	.	.	.	.	.	.	.	49	10.7	50	70.4
	9	.	.	.	.	.	.	.	.	47	11.1	49	69.3
	10	.	.	.	.	.	.	.	.	49	10.7	51	71.2
Mathematics	3	.	.	.	.	7	2.2	7	66.8	31	10.2	32	61.5
	4	.	.	.	.	13	4.0	14	70.7	62	18.5	65	65.2
	5	.	.	.	.	14	3.9	15	75.5	61	17.8	63	64.6
	6	.	.	.	.	9	2.9	9	67.6	51	18.0	52	58.8
	7	.	.	.	.	.	.	.	.	42	17.7	41	48.0
	8	.	.	.	.	.	.	.	.	40	17.1	38	47.7
	9	.	.	.	.	.	.	.	.	35	16.1	32	40.8
	10	.	.	.	.	.	.	.	.	34	16.6	30	38.9
Science	5	.	.	.	.	.	.	.	.	47	15.0	48	54.0
	8	.	.	.	.	.	.	.	.	50	16.9	50	49.8
	10	.	.	.	.	.	.	.	.	45	15.7	45	46.9
Reading Spanish	3	.	.	.	.	.	.	.	.	31	10.2	33	60.5
	4	9	3.5	9	50.3	8	2.8	8	45.3	47	15.3	46	51.7
Writing Spanish	3	.	.	.	.	.	.	.	.	39	10.4	40	69.3
	4	.	.	.	.	.	.	.	.	33	10.1	33	48.0

Table 158. Raw Score Descriptive Statistics by Subcontent Area

Content Area	Grade	\#1 Mean	SD	Med.	Mean % of Max	\#2 Mean	SD	Med.	Mean % of Max	\#3 Mean	SD	Med.	Mean % of Max	\#4 Mean	SD	Med.	Mean % of Max	\#5 Mean	SD	Med.	Mean % of Max
Reading	3	17	5.3	17	57.7	5	2.1	5	52.5	9	3.1	10	71.9	.	.	.	.	.	.	.	.
	4	22	7.3	23	56.3	15	4.2	16	69.7	8	2.1	8	69.0	.	.	.	.	.	.	.	.
	5	22	7.4	22	51.5	9	3.4	9	53.9	7	2.2	8	67.2	.	.	.	.	.	.	.	.
	6	24	6.7	25	59.4	10	3.9	10	47.6	7	2.1	7	65.0	.	.	.	.	.	.	.	.
	7	13	4.6	14	55.3	11	3.2	12	61.4	7	2.2	8	71.9	9	3.	9	49.9	.	.	.	.
	8	14	4.2	15	58.8	13	4.1	13	61.2	7	2.3	8	71.4	8	3.	8	50.0	.	.	.	.
	9	15	5.3	16	53.8	14	4.3	14	62.5	7	2.1	8	73.8	7	2.	7	55.8	.	.	.	.
	10	16	4.8	17	59.8	12	4.4	13	53.9	7	2.1	8	67.6	6	2.	6	55.5	.	.	.	.
Writing	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	16	3.1	16	73.9
	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.3	12	59.1
	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	3.5	13	61.9
	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	15	3.9	15	63.5
	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.1	12	63.4
	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.1	13	65.1
	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	3.7	13	60.2
	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	3.8	13	61.1
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	4	17	5.1	17	63.5	10	3.8	11	69.0	5	1.3	5	75.6	.	.	.	.	.	.	.	.
	5	12	3.8	12	66.1	8	3.4	8	57.6	7	2.1	7	65.3	.	.	.	.	.	.	.	.
	6	9	3.9	9	54.9	9	3.4	10	61.4	7	3.3	7	53.6	.	.	.	.	.	.	.	.
	7	7	4.3	6	40.1	7	3.9	7	39.3	.	.	.	.	.	.	.	.	.	.	.	.
	8	7	3.8	6	42.8	7	4.2	6	40.5	6	3.0	5	46.4	.	.	.	.	.	.	.	.
	9	6	3.0	5	44.3	6	4.3	5	36.7	.	.	.	.	.	.	.	.	.	.	.	.
	10	11	6.0	11	42.5	2	1.0	2	45.9	.	.	.	.	.	.	.	.	.	.	.	.
Science	5	7	3.4	7	45.2	7	3.4	7	48.4	.	.	.	.	.	.	.	.	.	.	.	.
	8	7	3.2	7	47.9	13	4.7	13	58.7	7	3.1	7	49.9	.	.	.	.	3	1.6	3	42.9
	10	8	3.6	8	44.9	10	3.6	11	60.5	.	.	.	.	7	3.	6	47.0	6	2.7	5	37.7
Reading Spanish	3	15	5.2	16	64.2	9	3.8	10	56.9	7	2.4	7	58.1	.	.	.	.	.	.	.	.
	4	18	6.6	17	47.0	13	4.6	13	53.3	7	2.2	8	66.6	.	.	.	.	.	.	.	.
Writing Spanish	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10	4.2	11	66.6
	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	8	3.0	7	41.7

Table 158. Raw Score Descriptive Statistics by Subcontent Area (cont'd)

Content Area	Grade	Subcontent Area 6 Mean	SD	Med.	Mean % of Max	Subcontent Area 7 Mean	SD	Med.	Mean % of Max	Subcontent Area 8 Mean	SD	Med.	Mean % of Max	Total Mean	SD	Med.	Mean % of Max
Reading	3	.	.	.	.	.	.	.	.	.	.	.	.	31	9.5	33	60.3
	4	.	.	.	.	.	.	.	.	.	.	.	.	56	16.0	59	62.1
	5	.	.	.	.	.	.	.	.	.	.	.	.	48	15.5	50	54.3
	6	.	.	.	.	.	.	.	.	.	.	.	.	52	15.1	54	58.0
	7	.	.	.	.	.	.	.	.	.	.	.	.	54	15.2	57	60.3
	8	.	.	.	.	.	.	.	.	.	.	.	.	54	15.5	56	60.0
	9	.	.	.	.	.	.	.	.	.	.	.	.	57	16.4	60	61.5
	10	.	.	.	.	.	.	.	.	.	.	.	.	56	15.5	58	60.6
Writing	3	.	.	.	.	15	3.6	16	79.4	7	2.3	7	69.4	42	8.9	45	75.8
	4	8	1.9	9	73.7	14	2.9	15	80.2	8	3.2	9	64.8	48	10.5	50	70.1
	5	9	1.7	9	81.9	15	3.7	16	76.6	11	3.2	12	72.1	50	10.7	52	71.8
	6	9	1.7	9	80.3	16	4.1	17	71.8	8	2.5	9	67.4	48	10.6	49	69.2
	7	8	1.9	7	69.3	15	4.0	16	69.2	9	2.8	9	66.0	46	10.7	48	67.0
	8	8	1.7	9	74.7	18	4.9	19	71.2	7	2.1	8	71.7	49	10.7	50	70.4
	9	9	1.7	9	77.8	15	4.6	17	76.4	8	2.4	9	65.2	47	11.1	49	69.3
	10	9	1.7	9	81.5	21	5.0	22	79.4	5	1.9	5	55.6	49	10.7	51	71.2
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	31	10.2	32	61.5
	4	.	.	.	.	.	.	.	.	.	.	.	.	62	18.5	65	65.2
	5	.	.	.	.	.	.	.	.	.	.	.	.	61	17.8	63	64.6
	6	.	.	.	.	.	.	.	.	.	.	.	.	51	18.0	52	58.8
	7	.	.	.	.	.	.	.	.	.	.	.	.	42	17.7	41	48.0
	8	.	.	.	.	.	.	.	.	.	.	.	.	40	17.1	38	47.7
	9	.	.	.	.	.	.	.	.	.	.	.	.	35	16.1	32	40.8
	10	.	.	.	.	.	.	.	.	.	.	.	.	34	16.6	30	38.9
Science	5	.	.	.	.	.	.	.	.	.	.	.	.	47	15.0	48	54.0
	8	7	2.8	7	48.0	.	.	.	.	.	.	.	.	50	16.9	50	49.8
	10	6	2.5	6	46.9	.	.	.	.	.	.	.	.	45	15.7	45	46.9
Reading Spanish	3	.	.	.	.	.	.	.	.	.	.	.	.	31	10.2	33	60.5
	4	.	.	.	.	.	.	.	.	.	.	.	.	47	15.3	46	51.7
Writing Spanish	3	.	.	.	.	15	3.7	15	73.0	7	2.4	7	68.4	39	10.4	40	69.3
	4	5	2.1	5	44.2	10	4.0	11	54.6	6	2.6	5	41.4	33	10.1	33	48.0

Table 159. Scale Score Distribution, Reading Grade 3

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
150	601	0.95	601	0.95	246	3	0.00	679	1.08	294	8	0.01	830	1.32
151	1	0.00	602	0.96	247	2	0.00	681	1.08	295	4	0.01	834	1.32
161	1	0.00	603	0.96	248	4	0.01	685	1.09	296	4	0.01	838	1.33
162	1	0.00	604	0.96	249	4	0.01	689	1.09	297	3	0.00	841	1.34
163	1	0.00	605	0.96	250	5	0.01	694	1.10	298	4	0.01	845	1.34
166	1	0.00	606	0.96	251	1	0.00	695	1.10	299	6	0.01	851	1.35
167	2	0.00	608	0.97	252	1	0.00	696	1.11	300	4	0.01	855	1.36
169	1	0.00	609	0.97	253	1	0.00	697	1.11	301	2	0.00	857	1.36
170	1	0.00	610	0.97	254	2	0.00	699	1.11	302	4	0.01	861	1.37
172	2	0.00	612	0.97	255	3	0.00	702	1.12	303	5	0.01	866	1.38
174	2	0.00	614	0.98	256	6	0.01	708	1.12	304	5	0.01	871	1.38
181	1	0.00	615	0.98	257	3	0.00	711	1.13	305	5	0.01	876	1.39
183	1	0.00	616	0.98	258	4	0.01	715	1.14	306	7	0.01	883	1.40
194	1	0.00	617	0.98	259	4	0.01	719	1.14	307	4	0.01	887	1.41
204	1	0.00	618	0.98	260	3	0.00	722	1.15	308	3	0.00	890	1.41
205	2	0.00	620	0.98	261	4	0.01	726	1.15	309	5	0.01	895	1.42
206	2	0.00	622	0.99	263	1	0.00	727	1.15	310	6	0.01	901	1.43
207	1	0.00	623	0.99	264	1	0.00	728	1.16	311	6	0.01	907	1.44
208	1	0.00	624	0.99	265	4	0.01	732	1.16	312	5	0.01	912	1.45
209	8	0.01	632	1.00	266	1	0.00	733	1.16	313	3	0.00	915	1.45
210	4	0.01	636	1.01	267	4	0.01	737	1.17	314	5	0.01	920	1.46
211	1	0.00	637	1.01	268	1	0.00	738	1.17	315	4	0.01	924	1.47
212	1	0.00	638	1.01	269	2	0.00	740	1.18	316	7	0.01	931	1.48
213	1	0.00	639	1.01	270	2	0.00	742	1.18	317	7	0.01	938	1.49
214	3	0.00	642	1.02	271	4	0.01	746	1.18	318	6	0.01	944	1.50
216	1	0.00	643	1.02	272	4	0.01	750	1.19	319	2	0.00	946	1.50
218	1	0.00	644	1.02	273	3	0.00	753	1.20	320	9	0.01	955	1.52
219	1	0.00	645	1.02	274	6	0.01	759	1.21	321	9	0.01	964	1.53
220	1	0.00	646	1.03	275	1	0.00	760	1.21	322	8	0.01	972	1.54
222	2	0.00	648	1.03	276	2	0.00	762	1.21	323	2	0.00	974	1.55
223	1	0.00	649	1.03	277	7	0.01	769	1.22	324	6	0.01	980	1.56
224	2	0.00	651	1.03	278	3	0.00	772	1.23	325	7	0.01	987	1.57
225	1	0.00	652	1.04	279	3	0.00	775	1.23	326	6	0.01	993	1.58
227	2	0.00	654	1.04	280	3	0.00	778	1.24	327	11	0.02	1004	1.59
229	1	0.00	655	1.04	281	3	0.00	781	1.24	328	7	0.01	1011	1.61
230	1	0.00	656	1.04	282	1	0.00	782	1.24	329	7	0.01	1018	1.62
233	3	0.00	659	1.05	283	4	0.01	786	1.25	330	7	0.01	1025	1.63
234	1	0.00	660	1.05	284	2	0.00	788	1.25	331	11	0.02	1036	1.65
235	2	0.00	662	1.05	285	9	0.01	797	1.27	332	6	0.01	1042	1.66
236	2	0.00	664	1.05	286	2	0.00	799	1.27	333	9	0.01	1051	1.67
237	1	0.00	665	1.06	287	1	0.00	800	1.27	334	11	0.02	1062	1.69
238	2	0.00	667	1.06	288	5	0.01	805	1.28	335	5	0.01	1067	1.69
239	1	0.00	668	1.06	289	5	0.01	810	1.29	336	5	0.01	1072	1.70
242	1	0.00	669	1.06	290	5	0.01	815	1.29	337	6	0.01	1078	1.71
243	1	0.00	670	1.06	291	2	0.00	817	1.30	338	11	0.02	1089	1.73
244	4	0.01	674	1.07	292	2	0.00	819	1.30	339	12	0.02	1101	1.75
245	2	0.00	676	1.07	293	3	0.00	822	1.31	340	9	0.01	1110	1.76

Table 159. Scale Score Distribution, Reading Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
341	7	0.01	1117	1.77	388	29	0.05	1838	2.92	435	52	0.08	3647	5.79
342	10	0.02	1127	1.79	389	23	0.04	1861	2.96	436	65	0.10	3712	5.90
343	10	0.02	1137	1.81	390	22	0.03	1883	2.99	437	59	0.09	3771	5.99
344	12	0.02	1149	1.82	391	22	0.03	1905	3.03	438	63	0.10	3834	6.09
345	10	0.02	1159	1.84	392	24	0.04	1929	3.06	439	81	0.13	3915	6.22
346	12	0.02	1171	1.86	393	24	0.04	1953	3.10	440	60	0.10	3975	6.31
347	10	0.02	1181	1.88	394	23	0.04	1976	3.14	441	65	0.10	4040	6.42
348	7	0.01	1188	1.89	395	28	0.04	2004	3.18	442	58	0.09	4098	6.51
349	12	0.02	1200	1.91	396	25	0.04	2029	3.22	443	67	0.11	4165	6.62
350	8	0.01	1208	1.92	397	28	0.04	2057	3.27	444	85	0.14	4250	6.75
351	13	0.02	1221	1.94	398	29	0.05	2086	3.31	445	84	0.13	4334	6.88
352	8	0.01	1229	1.95	399	25	0.04	2111	3.35	446	79	0.13	4413	7.01
353	20	0.03	1249	1.98	400	26	0.04	2137	3.39	447	70	0.11	4483	7.12
354	11	0.02	1260	2.00	401	29	0.05	2166	3.44	448	68	0.11	4551	7.23
355	12	0.02	1272	2.02	402	30	0.05	2196	3.49	449	73	0.12	4624	7.34
356	14	0.02	1286	2.04	403	23	0.04	2219	3.52	450	81	0.13	4705	7.47
357	13	0.02	1299	2.06	404	22	0.03	2241	3.56	451	78	0.12	4783	7.60
358	9	0.01	1308	2.08	405	32	0.05	2273	3.61	452	74	0.12	4857	7.71
359	11	0.02	1319	2.10	406	40	0.06	2313	3.67	453	58	0.09	4915	7.81
360	8	0.01	1327	2.11	407	41	0.07	2354	3.74	454	83	0.13	4998	7.94
361	14	0.02	1341	2.13	408	34	0.05	2388	3.79	455	93	0.15	5091	8.09
362	17	0.03	1358	2.16	409	35	0.06	2423	3.85	456	80	0.13	5171	8.21
363	14	0.02	1372	2.18	410	41	0.07	2464	3.91	457	86	0.14	5257	8.35
364	13	0.02	1385	2.20	411	34	0.05	2498	3.97	458	91	0.14	5348	8.49
365	16	0.03	1401	2.23	412	34	0.05	2532	4.02	459	105	0.17	5453	8.66
366	15	0.02	1416	2.25	413	47	0.07	2579	4.10	460	101	0.16	5554	8.82
367	9	0.01	1425	2.26	414	43	0.07	2622	4.16	461	92	0.15	5646	8.97
368	12	0.02	1437	2.28	415	41	0.07	2663	4.23	462	91	0.14	5737	9.11
369	14	0.02	1451	2.30	416	35	0.06	2698	4.29	463	110	0.17	5847	9.29
370	20	0.03	1471	2.34	417	38	0.06	2736	4.35	464	102	0.16	5949	9.45
371	15	0.02	1486	2.36	418	44	0.07	2780	4.42	465	98	0.16	6047	9.60
372	18	0.03	1504	2.39	419	39	0.06	2819	4.48	466	105	0.17	6152	9.77
373	16	0.03	1520	2.41	420	40	0.06	2859	4.54	467	100	0.16	6252	9.93
374	21	0.03	1541	2.45	421	47	0.07	2906	4.62	468	109	0.17	6361	10.10
375	15	0.02	1556	2.47	422	43	0.07	2949	4.68	469	96	0.15	6457	10.26
376	15	0.02	1571	2.50	423	40	0.06	2989	4.75	470	99	0.16	6556	10.41
377	26	0.04	1597	2.54	424	47	0.07	3036	4.82	471	114	0.18	6670	10.59
378	17	0.03	1614	2.56	425	43	0.07	3079	4.89	472	111	0.18	6781	10.77
379	21	0.03	1635	2.60	426	47	0.07	3126	4.97	473	105	0.17	6886	10.94
380	17	0.03	1652	2.62	427	61	0.10	3187	5.06	474	100	0.16	6986	11.10
381	23	0.04	1675	2.66	428	49	0.08	3236	5.14	475	130	0.21	7116	11.30
382	12	0.02	1687	2.68	429	63	0.10	3299	5.24	476	124	0.20	7240	11.50
383	19	0.03	1706	2.71	430	53	0.08	3352	5.32	477	105	0.17	7345	11.67
384	22	0.03	1728	2.74	431	61	0.10	3413	5.42	478	123	0.20	7468	11.86
385	32	0.05	1760	2.80	432	60	0.10	3473	5.52	479	152	0.24	7620	12.10
386	21	0.03	1781	2.83	433	58	0.09	3531	5.61	480	123	0.20	7743	12.30
387	28	0.04	1809	2.87	434	64	0.10	3595	5.71	481	138	0.22	7881	12.52

Table 159. Scale Score Distribution, Reading Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
482	132	0.21	8013	12.73	529	302	0.48	17824	28.31	576	409	0.65	34958	55.53
483	127	0.20	8140	12.93	530	276	0.44	18100	28.75	577	372	0.59	35330	56.12
484	113	0.18	8253	13.11	531	352	0.56	18452	29.31	578	423	0.67	35753	56.79
485	149	0.24	8402	13.35	532	291	0.46	18743	29.77	579	404	0.64	36157	57.43
486	151	0.24	8553	13.59	533	300	0.48	19043	30.25	580	421	0.67	36578	58.10
487	170	0.27	8723	13.86	534	330	0.52	19373	30.77	581	418	0.66	36996	58.76
488	166	0.26	8889	14.12	535	303	0.48	19676	31.25	582	406	0.64	37402	59.41
489	145	0.23	9034	14.35	536	299	0.47	19975	31.73	583	427	0.68	37829	60.09
490	156	0.25	9190	14.60	537	292	0.46	20267	32.19	584	379	0.60	38208	60.69
491	157	0.25	9347	14.85	538	335	0.53	20602	32.72	585	453	0.72	38661	61.41
492	144	0.23	9491	15.07	539	332	0.53	20934	33.25	586	408	0.65	39069	62.05
493	155	0.25	9646	15.32	540	312	0.50	21246	33.75	587	391	0.62	39460	62.68
494	179	0.28	9825	15.61	541	360	0.57	21606	34.32	588	439	0.70	39899	63.37
495	161	0.26	9986	15.86	542	314	0.50	21920	34.82	589	396	0.63	40295	64.00
496	170	0.27	10156	16.13	543	342	0.54	22262	35.36	590	437	0.69	40732	64.70
497	195	0.31	10351	16.44	544	337	0.54	22599	35.89	591	374	0.59	41106	65.29
498	184	0.29	10535	16.73	545	365	0.58	22964	36.47	592	382	0.61	41488	65.90
499	159	0.25	10694	16.99	546	336	0.53	23300	37.01	593	389	0.62	41877	66.51
500	170	0.27	10864	17.26	547	368	0.58	23668	37.59	594	360	0.57	42237	67.09
501	187	0.30	11051	17.55	548	349	0.55	24017	38.15	595	382	0.61	42619	67.69
502	178	0.28	11229	17.84	549	360	0.57	24377	38.72	596	384	0.61	43003	68.30
503	217	0.34	11446	18.18	550	325	0.52	24702	39.24	597	394	0.63	43397	68.93
504	179	0.28	11625	18.46	551	401	0.64	25103	39.87	598	389	0.62	43786	69.55
505	205	0.33	11830	18.79	552	430	0.68	25533	40.55	599	389	0.62	44175	70.16
506	218	0.35	12048	19.14	553	408	0.65	25941	41.20	600	358	0.57	44533	70.73
507	182	0.29	12230	19.43	554	350	0.56	26291	41.76	601	382	0.61	44915	71.34
508	203	0.32	12433	19.75	555	364	0.58	26655	42.34	602	381	0.61	45296	71.95
509	223	0.35	12656	20.10	556	402	0.64	27057	42.98	603	376	0.60	45672	72.54
510	214	0.34	12870	20.44	557	383	0.61	27440	43.58	604	339	0.54	46011	73.08
511	213	0.34	13083	20.78	558	398	0.63	27838	44.22	605	349	0.55	46360	73.64
512	226	0.36	13309	21.14	559	408	0.65	28246	44.86	606	321	0.51	46681	74.15
513	234	0.37	13543	21.51	560	377	0.60	28623	45.46	607	352	0.56	47033	74.70
514	226	0.36	13769	21.87	561	387	0.61	29010	46.08	608	351	0.56	47384	75.26
515	272	0.43	14041	22.30	562	386	0.61	29396	46.69	609	366	0.58	47750	75.84
516	247	0.39	14288	22.69	563	374	0.59	29770	47.28	610	361	0.57	48111	76.42
517	242	0.38	14530	23.08	564	372	0.59	30142	47.88	611	313	0.50	48424	76.91
518	280	0.44	14810	23.52	565	386	0.61	30528	48.49	612	347	0.55	48771	77.46
519	266	0.42	15076	23.95	566	407	0.65	30935	49.14	613	329	0.52	49100	77.99
520	262	0.42	15338	24.36	567	413	0.66	31348	49.79	614	333	0.53	49433	78.52
521	250	0.40	15588	24.76	568	379	0.60	31727	50.39	615	316	0.50	49749	79.02
522	253	0.40	15841	25.16	569	391	0.62	32118	51.01	616	321	0.51	50070	79.53
523	273	0.43	16114	25.59	570	401	0.64	32519	51.65	617	283	0.45	50353	79.98
524	256	0.41	16370	26.00	571	399	0.63	32918	52.28	618	286	0.45	50639	80.43
525	262	0.42	16632	26.42	572	390	0.62	33308	52.90	619	294	0.47	50933	80.90
526	284	0.45	16916	26.87	573	412	0.65	33720	53.56	620	335	0.53	51268	81.43
527	306	0.49	17222	27.35	574	429	0.68	34149	54.24	621	301	0.48	51569	81.91
528	300	0.48	17522	27.83	575	400	0.64	34549	54.88	622	259	0.41	51828	82.32

Table 159. Scale Score Distribution, Reading Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
623	306	0.49	52134	82.81	652	145	0.23	58168	92.39	699	31	0.05	61965	98.42
624	277	0.44	52411	83.25	653	141	0.22	58309	92.61	700	26	0.04	61991	98.46
625	286	0.45	52697	83.70	654	140	0.22	58449	92.84	701	31	0.05	62022	98.51
626	289	0.46	52986	84.16	655	145	0.23	58594	93.07	702	27	0.04	62049	98.55
627	251	0.40	53237	84.56	656	144	0.23	58738	93.30	703	51	0.08	62100	98.64
628	230	0.37	53467	84.92	657	120	0.19	58858	93.49	704	28	0.04	62128	98.68
629	243	0.39	53710	85.31	658	134	0.21	58992	93.70	705	38	0.06	62166	98.74
630	211	0.34	53921	85.64	659	144	0.23	59136	93.93	706	26	0.04	62192	98.78
631	220	0.35	54141	85.99	660	127	0.20	59263	94.13	707	25	0.04	62217	98.82
623	306	0.49	52134	82.81	661	122	0.19	59385	94.32	708	19	0.03	62236	98.85
624	277	0.44	52411	83.25	662	108	0.17	59493	94.49	709	30	0.05	62266	98.90
625	286	0.45	52697	83.70	663	114	0.18	59607	94.68	710	30	0.05	62296	98.95
626	289	0.46	52986	84.16	664	122	0.19	59729	94.87	711	18	0.03	62314	98.98
627	251	0.40	53237	84.56	665	119	0.19	59848	95.06	712	15	0.02	62329	99.00
628	230	0.37	53467	84.92	666	73	0.12	59921	95.17	713	13	0.02	62342	99.02
629	243	0.39	53710	85.31	667	98	0.16	60019	95.33	714	24	0.04	62366	99.06
630	211	0.34	53921	85.64	668	107	0.17	60126	95.50	715	16	0.03	62382	99.08
631	220	0.35	54141	85.99	669	112	0.18	60238	95.68	716	18	0.03	62400	99.11
623	306	0.49	52134	82.81	670	92	0.15	60330	95.82	717	10	0.02	62410	99.13
624	277	0.44	52411	83.25	671	85	0.14	60415	95.96	718	17	0.03	62427	99.16
625	286	0.45	52697	83.70	672	73	0.12	60488	96.08	719	23	0.04	62450	99.19
626	289	0.46	52986	84.16	673	81	0.13	60569	96.20	720	32	0.05	62482	99.24
627	251	0.40	53237	84.56	674	65	0.10	60634	96.31	721	11	0.02	62493	99.26
628	230	0.37	53467	84.92	675	68	0.11	60702	96.42	722	9	0.01	62502	99.27
629	243	0.39	53710	85.31	676	75	0.12	60777	96.53	723	20	0.03	62522	99.31
630	211	0.34	53921	85.64	677	74	0.12	60851	96.65	724	15	0.02	62537	99.33
631	220	0.35	54141	85.99	678	59	0.09	60910	96.75	725	15	0.02	62552	99.35
632	241	0.38	54382	86.38	679	68	0.11	60978	96.85	726	3	0.00	62555	99.36
633	244	0.39	54626	86.76	680	69	0.11	61047	96.96	727	9	0.01	62564	99.37
634	229	0.36	54855	87.13	681	60	0.10	61107	97.06	728	6	0.01	62570	99.38
635	219	0.35	55074	87.48	682	54	0.09	61161	97.14	729	10	0.02	62580	99.40
636	225	0.36	55299	87.83	683	66	0.10	61227	97.25	730	9	0.01	62589	99.41
637	228	0.36	55527	88.20	684	63	0.10	61290	97.35	731	14	0.02	62603	99.43
638	179	0.28	55706	88.48	685	44	0.07	61334	97.42	732	17	0.03	62620	99.46
639	194	0.31	55900	88.79	686	51	0.08	61385	97.50	733	6	0.01	62626	99.47
640	201	0.32	56101	89.11	687	46	0.07	61431	97.57	734	6	0.01	62632	99.48
641	198	0.31	56299	89.42	688	72	0.11	61503	97.69	735	16	0.03	62648	99.51
642	193	0.31	56492	89.73	689	35	0.06	61538	97.74	736	16	0.03	62664	99.53
643	204	0.32	56696	90.05	690	47	0.07	61585	97.82	737	6	0.01	62670	99.54
644	202	0.32	56898	90.37	691	45	0.07	61630	97.89	738	9	0.01	62679	99.56
645	188	0.30	57086	90.67	692	56	0.09	61686	97.98	739	4	0.01	62683	99.56
646	176	0.28	57262	90.95	693	41	0.07	61727	98.04	740	9	0.01	62692	99.58
647	158	0.25	57420	91.20	694	36	0.06	61763	98.10	741	16	0.03	62708	99.60
648	139	0.22	57559	91.42	695	57	0.09	61820	98.19	742	5	0.01	62713	99.61
649	171	0.27	57730	91.69	696	30	0.05	61850	98.24	743	5	0.01	62718	99.62
650	139	0.22	57869	91.92	697	47	0.07	61897	98.31	744	3	0.00	62721	99.62
651	154	0.24	58023	92.16	698	37	0.06	61934	98.37	745	4	0.01	62725	99.63

Table 159. Scale Score Distribution, Reading Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
746	11	0.02	62736	99.65
747	2	0.00	62738	99.65
748	4	0.01	62742	99.66
749	3	0.00	62745	99.66
750	3	0.00	62748	99.66
751	13	0.02	62761	99.69
752	12	0.02	62773	99.70
753	4	0.01	62777	99.71
754	3	0.00	62780	99.72
755	7	0.01	62787	99.73
756	3	0.00	62790	99.73
757	5	0.01	62795	99.74
758	7	0.01	62802	99.75
759	3	0.00	62805	99.76
760	2	0.00	62807	99.76
761	3	0.00	62810	99.76
762	11	0.02	62821	99.78
763	4	0.01	62825	99.79
764	3	0.00	62828	99.79
765	3	0.00	62831	99.80
766	2	0.00	62833	99.80
768	4	0.01	62837	99.81
769	6	0.01	62843	99.82
771	4	0.01	62847	99.82
773	3	0.00	62850	99.83
776	9	0.01	62859	99.84
777	7	0.01	62866	99.85
778	2	0.00	62868	99.86
780	1	0.00	62869	99.86
781	2	0.00	62871	99.86
782	3	0.00	62874	99.86
783	3	0.00	62877	99.87
784	5	0.01	62882	99.88
785	5	0.01	62887	99.89
786	3	0.00	62890	99.89
787	2	0.00	62892	99.89
789	3	0.00	62895	99.90
791	4	0.01	62899	99.90
792	2	0.00	62901	99.91
795	58	0.09	62959	100.00

Table 160. Scale Score Distribution, Reading Grade 3 (Spanish)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	13	1.11	13	1.11	462	2	0.17	100	8.57	509	6	0.51	392	33.59
338	1	0.09	14	1.20	463	3	0.26	103	8.83	510	9	0.77	401	34.36
342	1	0.09	15	1.29	464	3	0.26	106	9.08	511	11	0.94	412	35.30
370	1	0.09	16	1.37	465	1	0.09	107	9.17	512	3	0.26	415	35.56
377	1	0.09	17	1.46	466	2	0.17	109	9.34	513	10	0.86	425	36.42
382	1	0.09	18	1.54	467	1	0.09	110	9.43	514	8	0.69	433	37.10
393	1	0.09	19	1.63	468	8	0.69	118	10.11	515	7	0.60	440	37.70
398	1	0.09	20	1.71	469	4	0.34	122	10.45	516	7	0.60	447	38.30
400	1	0.09	21	1.80	470	6	0.51	128	10.97	517	16	1.37	463	39.67
405	1	0.09	22	1.89	471	4	0.34	132	11.31	518	13	1.11	476	40.79
410	1	0.09	23	1.97	472	1	0.09	133	11.40	519	4	0.34	480	41.13
412	2	0.17	25	2.14	473	6	0.51	139	11.91	520	5	0.43	485	41.56
414	2	0.17	27	2.31	474	5	0.43	144	12.34	521	17	1.46	502	43.02
415	3	0.26	30	2.57	475	6	0.51	150	12.85	522	10	0.86	512	43.87
419	1	0.09	31	2.66	476	4	0.34	154	13.20	523	6	0.51	518	44.39
420	1	0.09	32	2.74	477	4	0.34	158	13.54	524	2	0.17	520	44.56
423	1	0.09	33	2.83	478	5	0.43	163	13.97	525	15	1.29	535	45.84
425	2	0.17	35	3.00	479	9	0.77	172	14.74	526	12	1.03	547	46.87
426	1	0.09	36	3.08	480	3	0.26	175	15.00	527	15	1.29	562	48.16
427	1	0.09	37	3.17	481	6	0.51	181	15.51	528	9	0.77	571	48.93
428	1	0.09	38	3.26	482	5	0.43	186	15.94	529	12	1.03	583	49.96
429	1	0.09	39	3.34	483	11	0.94	197	16.88	530	9	0.77	592	50.73
431	2	0.17	41	3.51	484	1	0.09	198	16.97	531	9	0.77	601	51.50
434	1	0.09	42	3.60	485	4	0.34	202	17.31	532	8	0.69	609	52.19
435	1	0.09	43	3.68	486	8	0.69	210	17.99	533	11	0.94	620	53.13
436	1	0.09	44	3.77	487	8	0.69	218	18.68	534	17	1.46	637	54.58
437	2	0.17	46	3.94	488	7	0.60	225	19.28	535	12	1.03	649	55.61
438	3	0.26	49	4.20	489	8	0.69	233	19.97	536	10	0.86	659	56.47
440	2	0.17	51	4.37	490	11	0.94	244	20.91	537	7	0.60	666	57.07
441	2	0.17	53	4.54	491	5	0.43	249	21.34	538	20	1.71	686	58.78
442	2	0.17	55	4.71	492	9	0.77	258	22.11	539	15	1.29	701	60.07
444	4	0.34	59	5.06	493	8	0.69	266	22.79	540	19	1.63	720	61.70
446	1	0.09	60	5.14	494	9	0.77	275	23.56	541	9	0.77	729	62.47
447	5	0.43	65	5.57	495	11	0.94	286	24.51	542	13	1.11	742	63.58
448	3	0.26	68	5.83	496	8	0.69	294	25.19	543	8	0.69	750	64.27
450	2	0.17	70	6.00	497	8	0.69	302	25.88	544	10	0.86	760	65.12
451	2	0.17	72	6.17	498	5	0.43	307	26.31	545	12	1.03	772	66.15
452	1	0.09	73	6.26	499	9	0.77	316	27.08	546	15	1.29	787	67.44
453	2	0.17	75	6.43	500	8	0.69	324	27.76	547	12	1.03	799	68.47
454	3	0.26	78	6.68	501	8	0.69	332	28.45	548	19	1.63	818	70.09
455	1	0.09	79	6.77	502	5	0.43	337	28.88	549	6	0.51	824	70.61
456	1	0.09	80	6.86	503	8	0.69	345	29.56	550	8	0.69	832	71.29
457	2	0.17	82	7.03	504	8	0.69	353	30.25	551	6	0.51	838	71.81
458	3	0.26	85	7.28	505	8	0.69	361	30.93	552	10	0.86	848	72.66
459	5	0.43	90	7.71	506	7	0.60	368	31.53	553	4	0.34	852	73.01
460	5	0.43	95	8.14	507	4	0.34	372	31.88	554	11	0.94	863	73.95
461	3	0.26	98	8.40	508	14	1.20	386	33.08	555	6	0.51	869	74.46

Table 160. Scale Score Distribution, Reading Grade 3 (Spanish) (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
556	11	0.94	880	75.41	605	2	0.17	1131	96.92
557	9	0.77	889	76.18	606	3	0.26	1134	97.17
558	5	0.43	894	76.61	607	2	0.17	1136	97.34
559	14	1.20	908	77.81	608	1	0.09	1137	97.43
560	7	0.60	915	78.41	609	1	0.09	1138	97.51
561	8	0.69	923	79.09	611	3	0.26	1141	97.77
562	1	0.09	924	79.18	612	3	0.26	1144	98.03
563	7	0.60	931	79.78	614	1	0.09	1145	98.11
564	4	0.34	935	80.12	615	1	0.09	1146	98.20
565	5	0.43	940	80.55	617	1	0.09	1147	98.29
566	9	0.77	949	81.32	618	1	0.09	1148	98.37
567	9	0.77	958	82.09	620	1	0.09	1149	98.46
568	9	0.77	967	82.86	623	3	0.26	1152	98.71
569	9	0.77	976	83.63	624	1	0.09	1153	98.80
570	6	0.51	982	84.15	625	1	0.09	1154	98.89
571	5	0.43	987	84.58	627	1	0.09	1155	98.97
572	5	0.43	992	85.00	628	1	0.09	1156	99.06
573	7	0.60	999	85.60	632	1	0.09	1157	99.14
574	9	0.77	1008	86.38	633	1	0.09	1158	99.23
575	8	0.69	1016	87.06	637	1	0.09	1159	99.31
576	5	0.43	1021	87.49	639	1	0.09	1160	99.40
577	4	0.34	1025	87.83	641	1	0.09	1161	99.49
578	5	0.43	1030	88.26	642	1	0.09	1162	99.57
579	4	0.34	1034	88.60	643	1	0.09	1163	99.66
580	6	0.51	1040	89.12	652	2	0.17	1165	99.83
581	6	0.51	1046	89.63	667	1	0.09	1166	99.91
582	4	0.34	1050	89.97	708	1	0.09	1167	100.00
583	4	0.34	1054	90.32					
584	7	0.60	1061	90.92					
585	3	0.26	1064	91.17					
586	6	0.51	1070	91.69					
587	1	0.09	1071	91.77					
588	3	0.26	1074	92.03					
589	6	0.51	1080	92.54					
590	2	0.17	1082	92.72					
591	4	0.34	1086	93.06					
592	2	0.17	1088	93.23					
593	6	0.51	1094	93.74					
594	7	0.60	1101	94.34					
595	3	0.26	1104	94.60					
596	4	0.34	1108	94.94					
597	1	0.09	1109	95.03					
598	2	0.17	1111	95.20					
600	9	0.77	1120	95.97					
602	4	0.34	1124	96.32					
603	4	0.34	1128	96.66					
604	1	0.09	1129	96.74					

Table 161. Scale Score Distribution, Writing Grade 3

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
150	103	0.16	103	0.16	295	3	0.00	187	0.30	344	13	0.02	502	0.80
215	1	0.00	104	0.16	296	5	0.01	192	0.30	345	24	0.04	526	0.83
216	1	0.00	105	0.17	297	2	0.00	194	0.31	346	13	0.02	539	0.85
223	1	0.00	106	0.17	299	2	0.00	196	0.31	347	19	0.03	558	0.88
224	1	0.00	107	0.17	300	1	0.00	197	0.31	348	22	0.03	580	0.92
227	1	0.00	108	0.17	301	2	0.00	199	0.32	349	17	0.03	597	0.95
228	1	0.00	109	0.17	302	1	0.00	200	0.32	350	15	0.02	612	0.97
229	1	0.00	110	0.17	303	5	0.01	205	0.33	351	23	0.04	635	1.01
230	1	0.00	111	0.18	304	4	0.01	209	0.33	352	17	0.03	652	1.03
232	1	0.00	112	0.18	305	3	0.00	212	0.34	353	27	0.04	679	1.08
234	1	0.00	113	0.18	306	2	0.00	214	0.34	354	21	0.03	700	1.11
237	1	0.00	114	0.18	307	1	0.00	215	0.34	355	26	0.04	726	1.15
238	1	0.00	115	0.18	308	2	0.00	217	0.34	356	28	0.04	754	1.20
241	1	0.00	116	0.18	309	3	0.00	220	0.35	357	41	0.07	795	1.26
244	2	0.00	118	0.19	311	1	0.00	221	0.35	358	29	0.05	824	1.31
246	1	0.00	119	0.19	312	2	0.00	223	0.35	359	31	0.05	855	1.36
248	1	0.00	120	0.19	313	6	0.01	229	0.36	360	41	0.07	896	1.42
249	1	0.00	121	0.19	314	2	0.00	231	0.37	361	48	0.08	944	1.50
250	3	0.00	124	0.20	315	7	0.01	238	0.38	362	42	0.07	986	1.56
252	2	0.00	126	0.20	316	10	0.02	248	0.39	363	35	0.06	1021	1.62
253	1	0.00	127	0.20	317	7	0.01	255	0.40	364	36	0.06	1057	1.68
254	1	0.00	128	0.20	318	7	0.01	262	0.42	365	41	0.07	1098	1.74
257	2	0.00	130	0.21	319	7	0.01	269	0.43	366	57	0.09	1155	1.83
258	2	0.00	132	0.21	320	3	0.00	272	0.43	367	57	0.09	1212	1.92
263	1	0.00	133	0.21	321	5	0.01	277	0.44	368	49	0.08	1261	2.00
264	1	0.00	134	0.21	322	3	0.00	280	0.44	369	69	0.11	1330	2.11
269	2	0.00	136	0.22	323	4	0.01	284	0.45	370	58	0.09	1388	2.20
272	3	0.00	139	0.22	324	9	0.01	293	0.46	371	60	0.10	1448	2.30
274	1	0.00	140	0.22	325	15	0.02	308	0.49	372	68	0.11	1516	2.40
275	2	0.00	142	0.23	326	10	0.02	318	0.50	373	74	0.12	1590	2.52
278	2	0.00	144	0.23	327	7	0.01	325	0.52	374	64	0.10	1654	2.62
279	4	0.01	148	0.23	328	11	0.02	336	0.53	375	73	0.12	1727	2.74
280	1	0.00	149	0.24	329	11	0.02	347	0.55	376	80	0.13	1807	2.86
281	1	0.00	150	0.24	330	17	0.03	364	0.58	377	79	0.13	1886	2.99
282	7	0.01	157	0.25	331	5	0.01	369	0.59	378	84	0.13	1970	3.12
283	1	0.00	158	0.25	332	6	0.01	375	0.59	379	94	0.15	2064	3.27
284	2	0.00	160	0.25	333	5	0.01	380	0.60	380	92	0.15	2156	3.42
285	4	0.01	164	0.26	334	9	0.01	389	0.62	381	99	0.16	2255	3.58
286	3	0.00	167	0.26	335	5	0.01	394	0.62	382	105	0.17	2360	3.74
287	2	0.00	169	0.27	336	7	0.01	401	0.64	383	101	0.16	2461	3.90
288	2	0.00	171	0.27	337	16	0.03	417	0.66	384	108	0.17	2569	4.07
289	3	0.00	174	0.28	338	8	0.01	425	0.67	385	100	0.16	2669	4.23
290	1	0.00	175	0.28	339	12	0.02	437	0.69	386	123	0.20	2792	4.43
291	1	0.00	176	0.28	340	11	0.02	448	0.71	387	113	0.18	2905	4.61
292	3	0.00	179	0.28	341	8	0.01	456	0.72	388	128	0.20	3033	4.81
293	4	0.01	183	0.29	342	13	0.02	469	0.74	389	120	0.19	3153	5.00
294	1	0.00	184	0.29	343	20	0.03	489	0.78	390	121	0.19	3274	5.19

Table 161. Scale Score Distribution, Writing Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
391	143	0.23	3417	5.42	438	453	0.72	17271	27.38	485	494	0.78	42225	66.94
392	152	0.24	3569	5.66	439	463	0.73	17734	28.12	486	509	0.81	42734	67.75
393	167	0.26	3736	5.92	440	530	0.84	18264	28.96	487	476	0.75	43210	68.50
394	170	0.27	3906	6.19	441	492	0.78	18756	29.74	488	535	0.85	43745	69.35
395	150	0.24	4056	6.43	442	467	0.74	19223	30.48	489	513	0.81	44258	70.17
396	169	0.27	4225	6.70	443	476	0.75	19699	31.23	490	478	0.76	44736	70.92
397	170	0.27	4395	6.97	444	501	0.79	20200	32.02	491	457	0.72	45193	71.65
398	180	0.29	4575	7.25	445	479	0.76	20679	32.78	492	462	0.73	45655	72.38
399	181	0.29	4756	7.54	446	499	0.79	21178	33.58	493	453	0.72	46108	73.10
400	169	0.27	4925	7.81	447	495	0.78	21673	34.36	494	444	0.70	46552	73.80
401	203	0.32	5128	8.13	448	509	0.81	22182	35.17	495	434	0.69	46986	74.49
402	212	0.34	5340	8.47	449	511	0.81	22693	35.98	496	438	0.69	47424	75.19
403	230	0.36	5570	8.83	450	517	0.82	23210	36.80	497	427	0.68	47851	75.86
404	221	0.35	5791	9.18	451	496	0.79	23706	37.58	498	397	0.63	48248	76.49
405	217	0.34	6008	9.53	452	504	0.80	24210	38.38	499	383	0.61	48631	77.10
406	213	0.34	6221	9.86	453	506	0.80	24716	39.18	500	400	0.63	49031	77.73
407	229	0.36	6450	10.23	454	552	0.88	25268	40.06	501	377	0.60	49408	78.33
408	226	0.36	6676	10.58	455	515	0.82	25783	40.88	502	409	0.65	49817	78.98
409	259	0.41	6935	10.99	456	555	0.88	26338	41.76	503	382	0.61	50199	79.58
410	261	0.41	7196	11.41	457	552	0.88	26890	42.63	504	366	0.58	50565	80.17
411	286	0.45	7482	11.86	458	573	0.91	27463	43.54	505	358	0.57	50923	80.73
412	258	0.41	7740	12.27	459	564	0.89	28027	44.43	506	362	0.57	51285	81.31
413	253	0.40	7993	12.67	460	604	0.96	28631	45.39	507	344	0.55	51629	81.85
414	292	0.46	8285	13.13	461	570	0.90	29201	46.29	508	357	0.57	51986	82.42
415	284	0.45	8569	13.59	462	591	0.94	29792	47.23	509	294	0.47	52280	82.88
416	285	0.45	8854	14.04	463	544	0.86	30336	48.09	510	340	0.54	52620	83.42
417	301	0.48	9155	14.51	464	502	0.80	30838	48.89	511	309	0.49	52929	83.91
418	302	0.48	9457	14.99	465	572	0.91	31410	49.80	512	317	0.50	53246	84.42
419	308	0.49	9765	15.48	466	564	0.89	31974	50.69	513	337	0.53	53583	84.95
420	339	0.54	10104	16.02	467	549	0.87	32523	51.56	514	325	0.52	53908	85.47
421	295	0.47	10399	16.49	468	531	0.84	33054	52.40	515	290	0.46	54198	85.92
422	336	0.53	10735	17.02	469	565	0.90	33619	53.30	516	292	0.46	54490	86.39
423	364	0.58	11099	17.60	470	577	0.91	34196	54.21	517	286	0.45	54776	86.84
424	337	0.53	11436	18.13	471	579	0.92	34775	55.13	518	265	0.42	55041	87.26
425	327	0.52	11763	18.65	472	538	0.85	35313	55.98	519	270	0.43	55311	87.69
426	361	0.57	12124	19.22	473	573	0.91	35886	56.89	520	311	0.49	55622	88.18
427	381	0.60	12505	19.83	474	591	0.94	36477	57.83	521	257	0.41	55879	88.59
428	382	0.61	12887	20.43	475	538	0.85	37015	58.68	522	228	0.36	56107	88.95
429	379	0.60	13266	21.03	476	538	0.85	37553	59.54	523	255	0.40	56362	89.36
430	426	0.68	13692	21.71	477	536	0.85	38089	60.39	524	219	0.35	56581	89.70
431	447	0.71	14139	22.42	478	535	0.85	38624	61.23	525	271	0.43	56852	90.13
432	427	0.68	14566	23.09	479	517	0.82	39141	62.05	526	211	0.33	57063	90.47
433	434	0.69	15000	23.78	480	530	0.84	39671	62.89	527	227	0.36	57290	90.83
434	432	0.68	15432	24.47	481	527	0.84	40198	63.73	528	182	0.29	57472	91.12
435	466	0.74	15898	25.20	482	498	0.79	40696	64.52	529	215	0.34	57687	91.46
436	460	0.73	16358	25.93	483	546	0.87	41242	65.38	530	195	0.31	57882	91.77
437	460	0.73	16818	26.66	484	489	0.78	41731	66.16	531	165	0.26	58047	92.03

Table 161. Scale Score Distribution, Writing Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
532	135	0.21	58182	92.24	581	8	0.01	62131	98.50
533	150	0.24	58332	92.48	582	71	0.11	62202	98.61
534	191	0.30	58523	92.78	583	7	0.01	62209	98.63
535	101	0.16	58624	92.94	584	7	0.01	62216	98.64
536	174	0.28	58798	93.22	585	10	0.02	62226	98.65
537	183	0.29	58981	93.51	586	14	0.02	62240	98.67
538	119	0.19	59100	93.70	587	2	0.00	62242	98.68
539	181	0.29	59281	93.98	588	94	0.15	62336	98.83
540	115	0.18	59396	94.17	592	165	0.26	62501	99.09
541	180	0.29	59576	94.45	593	96	0.15	62597	99.24
542	226	0.36	59802	94.81	595	134	0.21	62731	99.45
543	137	0.22	59939	95.03	599	30	0.05	62761	99.50
544	68	0.11	60007	95.13	613	88	0.14	62849	99.64
545	138	0.22	60145	95.35	680	227	0.36	63076	100.00
546	50	0.08	60195	95.43					
547	93	0.15	60288	95.58					
548	70	0.11	60358	95.69					
549	61	0.10	60419	95.79					
550	62	0.10	60481	95.89					
551	106	0.17	60587	96.05					
552	47	0.07	60634	96.13					
553	87	0.14	60721	96.27					
554	81	0.13	60802	96.39					
555	105	0.17	60907	96.56					
556	88	0.14	60995	96.70					
557	85	0.13	61080	96.84					
558	67	0.11	61147	96.94					
559	115	0.18	61262	97.12					
560	68	0.11	61330	97.23					
561	78	0.12	61408	97.36					
562	105	0.17	61513	97.52					
563	127	0.20	61640	97.72					
564	53	0.08	61693	97.81					
565	63	0.10	61756	97.91					
566	23	0.04	61779	97.94					
567	21	0.03	61800	97.98					
568	33	0.05	61833	98.03					
569	2	0.00	61835	98.03					
570	1	0.00	61836	98.03					
571	26	0.04	61862	98.08					
572	66	0.10	61928	98.18					
573	54	0.09	61982	98.27					
575	2	0.00	61984	98.27					
576	19	0.03	62003	98.30					
577	29	0.05	62032	98.34					
579	42	0.07	62074	98.41					
580	49	0.08	62123	98.49					

Table 162. Scale Score Distribution, Writing Grade 3 (Spanish)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
250	8	0.68	8	0.68	393	1	0.08	78	6.62	441	5	0.42	213	18.08
252	1	0.08	9	0.76	394	3	0.25	81	6.88	442	3	0.25	216	18.34
262	1	0.08	10	0.85	395	1	0.08	82	6.96	443	3	0.25	219	18.59
267	2	0.17	12	1.02	396	1	0.08	83	7.05	444	3	0.25	222	18.85
272	1	0.08	13	1.10	397	1	0.08	84	7.13	445	4	0.34	226	19.19
281	1	0.08	14	1.19	398	2	0.17	86	7.30	446	4	0.34	230	19.52
287	1	0.08	15	1.27	399	2	0.17	88	7.47	447	6	0.51	236	20.03
292	1	0.08	16	1.36	400	2	0.17	90	7.64	448	4	0.34	240	20.37
297	1	0.08	17	1.44	401	1	0.08	91	7.72	449	3	0.25	243	20.63
305	1	0.08	18	1.53	402	2	0.17	93	7.89	450	4	0.34	247	20.97
308	1	0.08	19	1.61	403	2	0.17	95	8.06	451	5	0.42	252	21.39
311	1	0.08	20	1.70	404	3	0.25	98	8.32	452	2	0.17	254	21.56
313	2	0.17	22	1.87	405	1	0.08	99	8.40	453	4	0.34	258	21.90
316	1	0.08	23	1.95	406	2	0.17	101	8.57	454	3	0.25	261	22.16
319	2	0.17	25	2.12	407	1	0.08	102	8.66	455	3	0.25	264	22.41
322	1	0.08	26	2.21	408	1	0.08	103	8.74	456	9	0.76	273	23.17
326	1	0.08	27	2.29	409	1	0.08	104	8.83	457	7	0.59	280	23.77
328	2	0.17	29	2.46	410	4	0.34	108	9.17	458	5	0.42	285	24.19
330	1	0.08	30	2.55	411	4	0.34	112	9.51	459	5	0.42	290	24.62
332	1	0.08	31	2.63	412	1	0.08	113	9.59	460	2	0.17	292	24.79
333	2	0.17	33	2.80	413	1	0.08	114	9.68	461	5	0.42	297	25.21
337	1	0.08	34	2.89	414	5	0.42	119	10.10	462	2	0.17	299	25.38
343	1	0.08	35	2.97	415	2	0.17	121	10.27	463	10	0.85	309	26.23
344	1	0.08	36	3.06	416	3	0.25	124	10.53	464	4	0.34	313	26.57
350	3	0.25	39	3.31	417	2	0.17	126	10.70	465	8	0.68	321	27.25
352	1	0.08	40	3.40	418	1	0.08	127	10.78	466	4	0.34	325	27.59
355	1	0.08	41	3.48	419	1	0.08	128	10.87	467	5	0.42	330	28.01
358	1	0.08	42	3.57	420	1	0.08	129	10.95	468	6	0.51	336	28.52
359	2	0.17	44	3.74	422	2	0.17	131	11.12	469	7	0.59	343	29.12
360	1	0.08	45	3.82	423	7	0.59	138	11.71	470	5	0.42	348	29.54
361	2	0.17	47	3.99	424	1	0.08	139	11.80	471	10	0.85	358	30.39
366	1	0.08	48	4.07	425	1	0.08	140	11.88	472	4	0.34	362	30.73
369	1	0.08	49	4.16	426	4	0.34	144	12.22	473	2	0.17	364	30.90
370	1	0.08	50	4.24	427	6	0.51	150	12.73	474	6	0.51	370	31.41
372	2	0.17	52	4.41	428	4	0.34	154	13.07	475	3	0.25	373	31.66
373	4	0.34	56	4.75	429	5	0.42	159	13.50	476	8	0.68	381	32.34
379	1	0.08	57	4.84	430	4	0.34	163	13.84	477	6	0.51	387	32.85
380	2	0.17	59	5.01	431	7	0.59	170	14.43	478	4	0.34	391	33.19
381	1	0.08	60	5.09	432	6	0.51	176	14.94	479	9	0.76	400	33.96
382	2	0.17	62	5.26	433	3	0.25	179	15.20	480	4	0.34	404	34.30
383	3	0.25	65	5.52	434	6	0.51	185	15.70	481	4	0.34	408	34.63
385	1	0.08	66	5.60	435	4	0.34	189	16.04	482	5	0.42	413	35.06
386	4	0.34	70	5.94	436	4	0.34	193	16.38	483	5	0.42	418	35.48
387	1	0.08	71	6.03	437	3	0.25	196	16.64	484	6	0.51	424	35.99
388	3	0.25	74	6.28	438	4	0.34	200	16.98	485	6	0.51	430	36.50
389	1	0.08	75	6.37	439	3	0.25	203	17.23	486	5	0.42	435	36.93
391	2	0.17	77	6.54	440	5	0.42	208	17.66	487	3	0.25	438	37.18

Table 162. Scale Score Distribution, Writing Grade 3 (Spanish) (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
488	6	0.51	444	37.69	535	10	0.85	737	62.56	583	4	0.34	991	84.13
489	2	0.17	446	37.86	536	5	0.42	742	62.99	584	6	0.51	997	84.63
490	7	0.59	453	38.46	537	3	0.25	745	63.24	585	3	0.25	1000	84.89
491	7	0.59	460	39.05	538	6	0.51	751	63.75	586	4	0.34	1004	85.23
492	9	0.76	469	39.81	539	13	1.10	764	64.86	587	1	0.08	1005	85.31
493	10	0.85	479	40.66	540	4	0.34	768	65.20	588	4	0.34	1009	85.65
494	7	0.59	486	41.26	541	7	0.59	775	65.79	589	5	0.42	1014	86.08
495	8	0.68	494	41.94	542	5	0.42	780	66.21	590	2	0.17	1016	86.25
496	7	0.59	501	42.53	543	5	0.42	785	66.64	591	2	0.17	1018	86.42
497	7	0.59	508	43.12	544	8	0.68	793	67.32	592	6	0.51	1024	86.93
498	10	0.85	518	43.97	545	12	1.02	805	68.34	593	2	0.17	1026	87.10
499	8	0.68	526	44.65	546	3	0.25	808	68.59	594	4	0.34	1030	87.44
500	5	0.42	531	45.08	547	8	0.68	816	69.27	595	5	0.42	1035	87.86
501	6	0.51	537	45.59	548	5	0.42	821	69.69	596	9	0.76	1044	88.62
502	4	0.34	541	45.93	549	4	0.34	825	70.03	597	2	0.17	1046	88.79
503	3	0.25	544	46.18	550	2	0.17	827	70.20	599	1	0.08	1047	88.88
504	13	1.10	557	47.28	551	6	0.51	833	70.71	600	3	0.25	1050	89.13
505	4	0.34	561	47.62	552	5	0.42	838	71.14	601	2	0.17	1052	89.30
506	10	0.85	571	48.47	553	8	0.68	846	71.82	602	1	0.08	1053	89.39
507	3	0.25	574	48.73	554	8	0.68	854	72.50	604	2	0.17	1055	89.56
508	3	0.25	577	48.98	555	4	0.34	858	72.84	605	4	0.34	1059	89.90
509	13	1.10	590	50.08	556	10	0.85	868	73.68	606	4	0.34	1063	90.24
510	10	0.85	600	50.93	557	3	0.25	871	73.94	607	3	0.25	1066	90.49
511	6	0.51	606	51.44	558	4	0.34	875	74.28	608	4	0.34	1070	90.83
512	7	0.59	613	52.04	559	8	0.68	883	74.96	609	5	0.42	1075	91.26
513	3	0.25	616	52.29	560	6	0.51	889	75.47	610	1	0.08	1076	91.34
514	5	0.42	621	52.72	561	2	0.17	891	75.64	611	5	0.42	1081	91.77
515	5	0.42	626	53.14	562	5	0.42	896	76.06	612	5	0.42	1086	92.19
516	5	0.42	631	53.57	563	6	0.51	902	76.57	613	1	0.08	1087	92.28
517	4	0.34	635	53.90	564	6	0.51	908	77.08	614	4	0.34	1091	92.61
518	3	0.25	638	54.16	566	2	0.17	910	77.25	615	1	0.08	1092	92.70
519	6	0.51	644	54.67	567	10	0.85	920	78.10	616	1	0.08	1093	92.78
520	9	0.76	653	55.43	568	6	0.51	926	78.61	617	1	0.08	1094	92.87
521	6	0.51	659	55.94	569	5	0.42	931	79.03	618	8	0.68	1102	93.55
522	6	0.51	665	56.45	570	5	0.42	936	79.46	619	3	0.25	1105	93.80
523	5	0.42	670	56.88	571	6	0.51	942	79.97	621	1	0.08	1106	93.89
524	8	0.68	678	57.56	572	6	0.51	948	80.48	622	1	0.08	1107	93.97
525	3	0.25	681	57.81	573	5	0.42	953	80.90	623	2	0.17	1109	94.14
526	6	0.51	687	58.32	574	7	0.59	960	81.49	624	2	0.17	1111	94.31
527	7	0.59	694	58.91	575	4	0.34	964	81.83	625	2	0.17	1113	94.48
528	5	0.42	699	59.34	576	1	0.08	965	81.92	626	4	0.34	1117	94.82
529	4	0.34	703	59.68	577	1	0.08	966	82.00	629	4	0.34	1121	95.16
530	3	0.25	706	59.93	578	7	0.59	973	82.60	630	3	0.25	1124	95.42
531	5	0.42	711	60.36	579	2	0.17	975	82.77	631	2	0.17	1126	95.59
532	4	0.34	715	60.70	580	5	0.42	980	83.19	632	1	0.08	1127	95.67
533	5	0.42	720	61.12	581	3	0.25	983	83.45	633	2	0.17	1129	95.84
534	7	0.59	727	61.71	582	4	0.34	987	83.79	634	3	0.25	1132	96.10

Table 162. Scale Score Distribution, Writing Grade 3 (Spanish) (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
635	3	0.25	1135	96.35
636	2	0.17	1137	96.52
637	3	0.25	1140	96.77
638	2	0.17	1142	96.94
639	2	0.17	1144	97.11
640	1	0.08	1145	97.20
641	1	0.08	1146	97.28
643	4	0.34	1150	97.62
644	1	0.08	1151	97.71
645	1	0.08	1152	97.79
646	3	0.25	1155	98.05
649	1	0.08	1156	98.13
650	2	0.17	1158	98.30
654	2	0.17	1160	98.47
656	1	0.08	1161	98.56
663	2	0.17	1163	98.73
667	2	0.17	1165	98.90
668	1	0.08	1166	98.98
673	1	0.08	1167	99.07
674	1	0.08	1168	99.15
677	2	0.17	1170	99.32
689	1	0.08	1171	99.41
697	1	0.08	1172	99.49
707	2	0.17	1174	99.66
714	1	0.08	1175	99.75
718	2	0.17	1177	99.92
750	1	0.08	1178	100.00

Table 163. Scale Score Distribution, Mathematics Grade 3

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
150	135	0.21	135	0.21	199	5	0.01	302	0.47	246	7	0.01	775	1.21
151	4	0.01	139	0.22	200	8	0.01	310	0.48	247	25	0.04	800	1.24
152	4	0.01	143	0.22	201	5	0.01	315	0.49	248	13	0.02	813	1.26
153	2	0.00	145	0.23	202	7	0.01	322	0.50	249	22	0.03	835	1.30
154	4	0.01	149	0.23	203	4	0.01	326	0.51	250	16	0.02	851	1.32
155	2	0.00	151	0.23	204	7	0.01	333	0.52	251	30	0.05	881	1.37
157	1	0.00	152	0.24	205	3	0.00	336	0.52	252	18	0.03	899	1.40
158	1	0.00	153	0.24	206	5	0.01	341	0.53	253	13	0.02	912	1.42
159	2	0.00	155	0.24	207	14	0.02	355	0.55	254	23	0.04	935	1.45
160	4	0.01	159	0.25	208	7	0.01	362	0.56	255	12	0.02	947	1.47
161	2	0.00	161	0.25	209	6	0.01	368	0.57	256	13	0.02	960	1.49
162	1	0.00	162	0.25	210	11	0.02	379	0.59	257	18	0.03	978	1.52
163	1	0.00	163	0.25	211	7	0.01	386	0.60	258	18	0.03	996	1.55
164	2	0.00	165	0.26	212	13	0.02	399	0.62	259	15	0.02	1011	1.57
165	1	0.00	166	0.26	213	10	0.02	409	0.64	260	31	0.05	1042	1.62
166	2	0.00	168	0.26	214	8	0.01	417	0.65	261	19	0.03	1061	1.65
167	2	0.00	170	0.26	215	7	0.01	424	0.66	262	22	0.03	1083	1.68
169	6	0.01	176	0.27	216	12	0.02	436	0.68	263	18	0.03	1101	1.71
170	1	0.00	177	0.28	217	7	0.01	443	0.69	264	27	0.04	1128	1.75
171	1	0.00	178	0.28	218	3	0.00	446	0.69	265	12	0.02	1140	1.77
172	9	0.01	187	0.29	219	10	0.02	456	0.71	266	21	0.03	1161	1.81
173	2	0.00	189	0.29	220	7	0.01	463	0.72	267	29	0.05	1190	1.85
174	3	0.00	192	0.30	221	7	0.01	470	0.73	268	28	0.04	1218	1.89
175	2	0.00	194	0.30	222	12	0.02	482	0.75	269	22	0.03	1240	1.93
176	2	0.00	196	0.30	223	11	0.02	493	0.77	270	29	0.05	1269	1.97
177	4	0.01	200	0.31	224	7	0.01	500	0.78	271	40	0.06	1309	2.04
178	4	0.01	204	0.32	225	7	0.01	507	0.79	272	32	0.05	1341	2.09
179	3	0.00	207	0.32	226	12	0.02	519	0.81	273	32	0.05	1373	2.14
180	2	0.00	209	0.33	227	10	0.02	529	0.82	274	26	0.04	1399	2.18
181	8	0.01	217	0.34	228	11	0.02	540	0.84	275	28	0.04	1427	2.22
182	4	0.01	221	0.34	229	8	0.01	548	0.85	276	28	0.04	1455	2.26
183	7	0.01	228	0.35	230	9	0.01	557	0.87	277	35	0.05	1490	2.32
184	2	0.00	230	0.36	231	10	0.02	567	0.88	278	26	0.04	1516	2.36
185	3	0.00	233	0.36	232	12	0.02	579	0.90	279	27	0.04	1543	2.40
186	2	0.00	235	0.37	233	12	0.02	591	0.92	280	32	0.05	1575	2.45
187	9	0.01	244	0.38	234	18	0.03	609	0.95	281	36	0.06	1611	2.51
188	5	0.01	249	0.39	235	15	0.02	624	0.97	282	37	0.06	1648	2.56
189	3	0.00	252	0.39	236	10	0.02	634	0.99	283	28	0.04	1676	2.61
190	1	0.00	253	0.39	237	13	0.02	647	1.01	284	33	0.05	1709	2.66
191	8	0.01	261	0.41	238	9	0.01	656	1.02	285	51	0.08	1760	2.74
192	7	0.01	268	0.42	239	18	0.03	674	1.05	286	36	0.06	1796	2.79
193	5	0.01	273	0.42	240	13	0.02	687	1.07	287	44	0.07	1840	2.86
194	6	0.01	279	0.43	241	22	0.03	709	1.10	288	38	0.06	1878	2.92
195	5	0.01	284	0.44	242	18	0.03	727	1.13	289	34	0.05	1912	2.97
196	5	0.01	289	0.45	243	13	0.02	740	1.15	290	31	0.05	1943	3.02
197	3	0.00	292	0.45	244	16	0.02	756	1.18	291	30	0.05	1973	3.07
198	5	0.01	297	0.46	245	12	0.02	768	1.19	292	42	0.07	2015	3.13

Table 163. Scale Score Distribution, Mathematics Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
293	43	0.07	2058	3.20	340	111	0.17	5189	8.07	387	173	0.27	11421	17.77
294	43	0.07	2101	3.27	341	94	0.15	5283	8.22	388	178	0.28	11599	18.05
295	46	0.07	2147	3.34	342	95	0.15	5378	8.37	389	171	0.27	11770	18.31
296	45	0.07	2192	3.41	343	94	0.15	5472	8.51	390	171	0.27	11941	18.58
297	59	0.09	2251	3.50	344	127	0.20	5599	8.71	391	184	0.29	12125	18.86
298	51	0.08	2302	3.58	345	108	0.17	5707	8.88	392	188	0.29	12313	19.16
299	41	0.06	2343	3.65	346	109	0.17	5816	9.05	393	181	0.28	12494	19.44
300	48	0.07	2391	3.72	347	105	0.16	5921	9.21	394	186	0.29	12680	19.73
301	52	0.08	2443	3.80	348	122	0.19	6043	9.40	395	181	0.28	12861	20.01
302	71	0.11	2514	3.91	349	108	0.17	6151	9.57	396	181	0.28	13042	20.29
303	54	0.08	2568	4.00	350	110	0.17	6261	9.74	397	213	0.33	13255	20.62
304	44	0.07	2612	4.06	351	102	0.16	6363	9.90	398	176	0.27	13431	20.90
305	49	0.08	2661	4.14	352	106	0.16	6469	10.06	399	192	0.30	13623	21.19
306	46	0.07	2707	4.21	353	104	0.16	6573	10.23	400	197	0.31	13820	21.50
307	58	0.09	2765	4.30	354	95	0.15	6668	10.37	401	171	0.27	13991	21.77
308	49	0.08	2814	4.38	355	106	0.16	6774	10.54	402	216	0.34	14207	22.10
309	63	0.10	2877	4.48	356	123	0.19	6897	10.73	403	202	0.31	14409	22.42
310	50	0.08	2927	4.55	357	108	0.17	7005	10.90	387	173	0.27	11421	17.77
311	64	0.10	2991	4.65	358	131	0.20	7136	11.10	388	178	0.28	11599	18.05
312	53	0.08	3044	4.74	359	132	0.21	7268	11.31	389	171	0.27	11770	18.31
313	63	0.10	3107	4.83	360	113	0.18	7381	11.48	390	171	0.27	11941	18.58
314	51	0.08	3158	4.91	361	132	0.21	7513	11.69	391	184	0.29	12125	18.86
315	48	0.07	3206	4.99	362	128	0.20	7641	11.89	392	188	0.29	12313	19.16
316	69	0.11	3275	5.10	363	106	0.16	7747	12.05	393	181	0.28	12494	19.44
317	71	0.11	3346	5.21	364	133	0.21	7880	12.26	394	186	0.29	12680	19.73
318	67	0.10	3413	5.31	365	139	0.22	8019	12.48	395	181	0.28	12861	20.01
319	51	0.08	3464	5.39	366	115	0.18	8134	12.65	396	181	0.28	13042	20.29
320	66	0.10	3530	5.49	367	161	0.25	8295	12.91	397	213	0.33	13255	20.62
321	61	0.09	3591	5.59	368	153	0.24	8448	13.14	398	176	0.27	13431	20.90
322	76	0.12	3667	5.70	369	152	0.24	8600	13.38	399	192	0.30	13623	21.19
323	83	0.13	3750	5.83	370	153	0.24	8753	13.62	400	197	0.31	13820	21.50
324	73	0.11	3823	5.95	371	129	0.20	8882	13.82	401	171	0.27	13991	21.77
325	92	0.14	3915	6.09	372	154	0.24	9036	14.06	402	216	0.34	14207	22.10
326	84	0.13	3999	6.22	373	166	0.26	9202	14.32	403	202	0.31	14409	22.42
327	63	0.10	4062	6.32	374	152	0.24	9354	14.55	404	195	0.30	14604	22.72
328	87	0.14	4149	6.45	375	146	0.23	9500	14.78	405	184	0.29	14788	23.01
329	50	0.08	4199	6.53	376	168	0.26	9668	15.04	406	225	0.35	15013	23.36
330	87	0.14	4286	6.67	377	154	0.24	9822	15.28	407	208	0.32	15221	23.68
331	77	0.12	4363	6.79	378	176	0.27	9998	15.55	408	231	0.36	15452	24.04
332	87	0.14	4450	6.92	379	151	0.23	10149	15.79	409	230	0.36	15682	24.40
333	85	0.13	4535	7.06	380	169	0.26	10318	16.05	410	205	0.32	15887	24.72
334	79	0.12	4614	7.18	381	170	0.26	10488	16.32	411	236	0.37	16123	25.08
335	83	0.13	4697	7.31	382	144	0.22	10632	16.54	412	222	0.35	16345	25.43
336	93	0.14	4790	7.45	383	132	0.21	10764	16.75	413	216	0.34	16561	25.77
337	90	0.14	4880	7.59	384	141	0.22	10905	16.97	414	232	0.36	16793	26.13
338	94	0.15	4974	7.74	385	168	0.26	11073	17.23	415	210	0.33	17003	26.45
339	104	0.16	5078	7.90	386	175	0.27	11248	17.50	416	216	0.34	17219	26.79

Table 163. Scale Score Distribution, Mathematics Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
417	231	0.36	17450	27.15	464	351	0.55	30446	47.37	499	307	0.48	41158	64.03
418	237	0.37	17687	27.52	465	322	0.50	30768	47.87	500	269	0.42	41427	64.45
419	224	0.35	17911	27.87	466	315	0.49	31083	48.36	501	301	0.47	41728	64.92
420	236	0.37	18147	28.23	467	321	0.50	31404	48.86	502	289	0.45	42017	65.37
421	268	0.42	18415	28.65	468	292	0.45	31696	49.31	503	292	0.45	42309	65.82
422	261	0.41	18676	29.06	469	289	0.45	31985	49.76	504	280	0.44	42589	66.26
423	242	0.38	18918	29.43	470	320	0.50	32305	50.26	505	291	0.45	42880	66.71
424	237	0.37	19155	29.80	471	332	0.52	32637	50.78	506	296	0.46	43176	67.17
425	279	0.43	19434	30.23	472	327	0.51	32964	51.28	507	307	0.48	43483	67.65
426	259	0.40	19693	30.64	473	317	0.49	33281	51.78	508	279	0.43	43762	68.08
427	224	0.35	19917	30.99	474	294	0.46	33575	52.23	509	267	0.42	44029	68.50
428	256	0.40	20173	31.38	475	323	0.50	33898	52.74	510	265	0.41	44294	68.91
429	255	0.40	20428	31.78	464	351	0.55	30446	47.37	511	292	0.45	44586	69.37
430	243	0.38	20671	32.16	465	322	0.50	30768	47.87	512	279	0.43	44865	69.80
431	241	0.37	20912	32.53	466	315	0.49	31083	48.36	513	301	0.47	45166	70.27
432	283	0.44	21195	32.97	467	321	0.50	31404	48.86	514	254	0.40	45420	70.66
433	239	0.37	21434	33.35	468	292	0.45	31696	49.31	515	264	0.41	45684	71.07
434	271	0.42	21705	33.77	469	289	0.45	31985	49.76	516	260	0.40	45944	71.48
435	252	0.39	21957	34.16	470	320	0.50	32305	50.26	517	260	0.40	46204	71.88
436	274	0.43	22231	34.59	471	332	0.52	32637	50.78	518	281	0.44	46485	72.32
437	263	0.41	22494	35.00	472	327	0.51	32964	51.28	519	250	0.39	46735	72.71
438	276	0.43	22770	35.42	473	317	0.49	33281	51.78	520	274	0.43	47009	73.14
439	278	0.43	23048	35.86	474	294	0.46	33575	52.23	521	267	0.42	47276	73.55
440	270	0.42	23318	36.28	475	323	0.50	33898	52.74	522	236	0.37	47512	73.92
441	257	0.40	23575	36.68	476	306	0.48	34204	53.21	523	272	0.42	47784	74.34
442	289	0.45	23864	37.13	477	314	0.49	34518	53.70	524	231	0.36	48015	74.70
443	292	0.45	24156	37.58	478	301	0.47	34819	54.17	525	220	0.34	48235	75.04
444	304	0.47	24460	38.05	479	308	0.48	35127	54.65	526	255	0.40	48490	75.44
445	298	0.46	24758	38.52	480	306	0.48	35433	55.13	527	213	0.33	48703	75.77
446	276	0.43	25034	38.95	481	316	0.49	35749	55.62	528	229	0.36	48932	76.13
447	277	0.43	25311	39.38	482	253	0.39	36002	56.01	529	237	0.37	49169	76.50
448	268	0.42	25579	39.79	483	296	0.46	36298	56.47	530	252	0.39	49421	76.89
449	308	0.48	25887	40.27	484	310	0.48	36608	56.95	531	219	0.34	49640	77.23
450	288	0.45	26175	40.72	485	323	0.50	36931	57.46	532	230	0.36	49870	77.59
451	270	0.42	26445	41.14	486	308	0.48	37239	57.94	533	248	0.39	50118	77.97
452	296	0.46	26741	41.60	487	294	0.46	37533	58.39	534	228	0.35	50346	78.33
453	297	0.46	27038	42.06	488	289	0.45	37822	58.84	535	219	0.34	50565	78.67
454	286	0.44	27324	42.51	489	284	0.44	38106	59.28	536	247	0.38	50812	79.05
455	297	0.46	27621	42.97	490	300	0.47	38406	59.75	537	209	0.33	51021	79.38
456	292	0.45	27913	43.43	491	325	0.51	38731	60.26	538	226	0.35	51247	79.73
457	311	0.48	28224	43.91	492	279	0.43	39010	60.69	539	187	0.29	51434	80.02
458	327	0.51	28551	44.42	493	311	0.48	39321	61.17	540	203	0.32	51637	80.34
459	333	0.52	28884	44.94	494	328	0.51	39649	61.68	541	201	0.31	51838	80.65
460	283	0.44	29167	45.38	495	271	0.42	39920	62.11	542	233	0.36	52071	81.01
461	298	0.46	29465	45.84	496	322	0.50	40242	62.61	543	222	0.35	52293	81.36
462	305	0.47	29770	46.32	497	314	0.49	40556	63.10	544	191	0.30	52484	81.65
463	325	0.51	30095	46.82	498	295	0.46	40851	63.55	545	208	0.32	52692	81.98

Table 163. Scale Score Distribution, Mathematics Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
546	190	0.30	52882	82.27	593	84	0.13	59634	92.78	640	15	0.02	62579	97.36
547	212	0.33	53094	82.60	594	92	0.14	59726	92.92	641	37	0.06	62616	97.42
548	201	0.31	53295	82.91	595	70	0.11	59796	93.03	642	27	0.04	62643	97.46
549	210	0.33	53505	83.24	596	92	0.14	59888	93.17	643	39	0.06	62682	97.52
550	186	0.29	53691	83.53	597	100	0.16	59988	93.33	644	14	0.02	62696	97.54
551	183	0.28	53874	83.82	598	76	0.12	60064	93.45	645	28	0.04	62724	97.58
552	202	0.31	54076	84.13	599	70	0.11	60134	93.55	646	72	0.11	62796	97.70
553	176	0.27	54252	84.40	600	95	0.15	60229	93.70	647	31	0.05	62827	97.74
554	186	0.29	54438	84.69	601	80	0.12	60309	93.83	648	27	0.04	62854	97.79
555	177	0.28	54615	84.97	602	71	0.11	60380	93.94	649	12	0.02	62866	97.80
556	174	0.27	54789	85.24	603	84	0.13	60464	94.07	650	24	0.04	62890	97.84
557	171	0.27	54960	85.50	604	70	0.11	60534	94.18	651	37	0.06	62927	97.90
558	175	0.27	55135	85.78	605	117	0.18	60651	94.36	652	13	0.02	62940	97.92
559	153	0.24	55288	86.02	606	80	0.12	60731	94.48	653	33	0.05	62973	97.97
560	175	0.27	55463	86.29	607	76	0.12	60807	94.60	654	15	0.02	62988	97.99
561	160	0.25	55623	86.54	608	85	0.13	60892	94.73	655	24	0.04	63012	98.03
562	163	0.25	55786	86.79	609	62	0.10	60954	94.83	656	7	0.01	63019	98.04
563	157	0.24	55943	87.03	610	62	0.10	61016	94.93	657	15	0.02	63034	98.07
564	145	0.23	56088	87.26	611	56	0.09	61072	95.01	658	19	0.03	63053	98.10
565	159	0.25	56247	87.51	612	61	0.09	61133	95.11	659	10	0.02	63063	98.11
566	149	0.23	56396	87.74	613	71	0.11	61204	95.22	660	93	0.14	63156	98.26
567	140	0.22	56536	87.96	614	52	0.08	61256	95.30	661	23	0.04	63179	98.29
568	143	0.22	56679	88.18	615	67	0.10	61323	95.40	662	5	0.01	63184	98.30
569	159	0.25	56838	88.43	616	75	0.12	61398	95.52	663	7	0.01	63191	98.31
570	140	0.22	56978	88.64	617	66	0.10	61464	95.62	664	8	0.01	63199	98.32
571	146	0.23	57124	88.87	618	83	0.13	61547	95.75	665	49	0.08	63248	98.40
572	143	0.22	57267	89.09	619	48	0.07	61595	95.83	666	19	0.03	63267	98.43
573	128	0.20	57395	89.29	620	44	0.07	61639	95.90	667	9	0.01	63276	98.44
574	114	0.18	57509	89.47	621	55	0.09	61694	95.98	668	21	0.03	63297	98.48
575	106	0.16	57615	89.64	622	86	0.13	61780	96.12	669	33	0.05	63330	98.53
576	127	0.20	57742	89.83	623	54	0.08	61834	96.20	670	18	0.03	63348	98.55
577	144	0.22	57886	90.06	624	60	0.09	61894	96.29	671	11	0.02	63359	98.57
578	134	0.21	58020	90.27	625	47	0.07	61941	96.37	672	33	0.05	63392	98.62
579	112	0.17	58132	90.44	626	18	0.03	61959	96.39	673	8	0.01	63400	98.64
580	137	0.21	58269	90.65	627	44	0.07	62003	96.46	674	4	0.01	63404	98.64
581	132	0.21	58401	90.86	628	96	0.15	62099	96.61	675	8	0.01	63412	98.65
582	107	0.17	58508	91.02	629	30	0.05	62129	96.66	676	62	0.10	63474	98.75
583	108	0.17	58616	91.19	630	46	0.07	62175	96.73	677	2	0.00	63476	98.75
584	108	0.17	58724	91.36	631	42	0.07	62217	96.80	678	15	0.02	63491	98.78
585	120	0.19	58844	91.55	632	47	0.07	62264	96.87	679	59	0.09	63550	98.87
586	91	0.14	58935	91.69	633	38	0.06	62302	96.93	680	4	0.01	63554	98.88
587	103	0.16	59038	91.85	634	40	0.06	62342	96.99	681	26	0.04	63580	98.92
588	98	0.15	59136	92.00	635	41	0.06	62383	97.05	682	3	0.00	63583	98.92
589	116	0.18	59252	92.18	636	26	0.04	62409	97.09	683	9	0.01	63592	98.93
590	116	0.18	59368	92.36	637	58	0.09	62467	97.18	684	11	0.02	63603	98.95
591	88	0.14	59456	92.50	638	16	0.02	62483	97.21	685	1	0.00	63604	98.95
592	94	0.15	59550	92.65	639	81	0.13	62564	97.33	686	11	0.02	63615	98.97

Table 163. Scale Score Distribution, Mathematics Grade 3 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
688	12	0.02	63627	98.99
691	3	0.00	63630	98.99
692	4	0.01	63634	99.00
695	4	0.01	63638	99.01
696	61	0.09	63699	99.10
697	14	0.02	63713	99.12
698	3	0.00	63716	99.13
699	19	0.03	63735	99.16
700	542	0.84	64277	100.00

Table 164. Scale Score Distribution, Reading Grade 4

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
180	244	0.38	244	0.38	320	1	0.00	324	0.50	368	4	0.01	498	0.77
240	1	0.00	245	0.38	321	5	0.01	329	0.51	369	6	0.01	504	0.78
245	1	0.00	246	0.38	322	1	0.00	330	0.51	370	9	0.01	513	0.80
246	1	0.00	247	0.38	323	1	0.00	331	0.52	371	10	0.02	523	0.81
249	1	0.00	248	0.39	324	1	0.00	332	0.52	372	6	0.01	529	0.82
250	2	0.00	250	0.39	325	1	0.00	333	0.52	373	5	0.01	534	0.83
259	1	0.00	251	0.39	326	3	0.00	336	0.52	374	9	0.01	543	0.84
263	1	0.00	252	0.39	327	4	0.01	340	0.53	375	4	0.01	547	0.85
264	1	0.00	253	0.39	328	1	0.00	341	0.53	376	9	0.01	556	0.87
265	1	0.00	254	0.40	329	3	0.00	344	0.54	377	3	0.00	559	0.87
266	1	0.00	255	0.40	330	4	0.01	348	0.54	378	6	0.01	565	0.88
268	1	0.00	256	0.40	331	2	0.00	350	0.54	379	1	0.00	566	0.88
269	1	0.00	257	0.40	333	1	0.00	351	0.55	380	6	0.01	572	0.89
271	2	0.00	259	0.40	334	3	0.00	354	0.55	381	7	0.01	579	0.90
273	1	0.00	260	0.40	335	1	0.00	355	0.55	382	5	0.01	584	0.91
274	1	0.00	261	0.41	336	3	0.00	358	0.56	383	5	0.01	589	0.92
275	2	0.00	263	0.41	337	4	0.01	362	0.56	384	11	0.02	600	0.93
276	1	0.00	264	0.41	338	3	0.00	365	0.57	385	10	0.02	610	0.95
277	3	0.00	267	0.42	339	5	0.01	370	0.58	386	9	0.01	619	0.96
278	2	0.00	269	0.42	340	2	0.00	372	0.58	387	6	0.01	625	0.97
279	1	0.00	270	0.42	341	3	0.00	375	0.58	388	9	0.01	634	0.99
283	2	0.00	272	0.42	342	5	0.01	380	0.59	389	11	0.02	645	1.00
285	3	0.00	275	0.43	343	8	0.01	388	0.60	390	7	0.01	652	1.01
288	2	0.00	277	0.43	344	1	0.00	389	0.61	391	10	0.02	662	1.03
289	1	0.00	278	0.43	345	5	0.01	394	0.61	392	9	0.01	671	1.04
291	1	0.00	279	0.43	346	5	0.01	399	0.62	393	6	0.01	677	1.05
292	3	0.00	282	0.44	347	6	0.01	405	0.63	394	6	0.01	683	1.06
293	2	0.00	284	0.44	348	5	0.01	410	0.64	395	12	0.02	695	1.08
294	1	0.00	285	0.44	349	2	0.00	412	0.64	396	9	0.01	704	1.10
295	2	0.00	287	0.45	350	4	0.01	416	0.65	397	9	0.01	713	1.11
297	3	0.00	290	0.45	351	2	0.00	418	0.65	398	9	0.01	722	1.12
298	1	0.00	291	0.45	352	5	0.01	423	0.66	399	9	0.01	731	1.14
299	1	0.00	292	0.45	353	3	0.00	426	0.66	400	8	0.01	739	1.15
300	1	0.00	293	0.46	354	6	0.01	432	0.67	401	10	0.02	749	1.17
301	1	0.00	294	0.46	355	8	0.01	440	0.68	402	15	0.02	764	1.19
303	2	0.00	296	0.46	356	7	0.01	447	0.70	403	9	0.01	773	1.20
306	2	0.00	298	0.46	357	2	0.00	449	0.70	404	16	0.02	789	1.23
307	1	0.00	299	0.47	358	4	0.01	453	0.70	405	16	0.02	805	1.25
308	2	0.00	301	0.47	359	6	0.01	459	0.71	406	17	0.03	822	1.28
309	3	0.00	304	0.47	360	7	0.01	466	0.73	407	10	0.02	832	1.29
310	1	0.00	305	0.47	361	4	0.01	470	0.73	408	10	0.02	842	1.31
313	4	0.01	309	0.48	362	2	0.00	472	0.73	409	9	0.01	851	1.32
314	5	0.01	314	0.49	363	6	0.01	478	0.74	410	18	0.03	869	1.35
315	2	0.00	316	0.49	364	1	0.00	479	0.75	411	11	0.02	880	1.37
317	1	0.00	317	0.49	365	5	0.01	484	0.75	412	23	0.04	903	1.41
318	4	0.01	321	0.50	366	5	0.01	489	0.76	413	17	0.03	920	1.43
319	2	0.00	323	0.50	367	5	0.01	494	0.77	414	15	0.02	935	1.45

Table 164. Scale Score Distribution, Reading Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
415	14	0.02	949	1.48	462	46	0.07	2269	3.53	509	131	0.20	5877	9.15
416	14	0.02	963	1.50	463	58	0.09	2327	3.62	510	132	0.21	6009	9.35
417	13	0.02	976	1.52	464	46	0.07	2373	3.69	511	105	0.16	6114	9.51
418	17	0.03	993	1.55	465	30	0.05	2403	3.74	512	134	0.21	6248	9.72
419	16	0.02	1009	1.57	466	52	0.08	2455	3.82	513	125	0.19	6373	9.92
420	17	0.03	1026	1.60	467	66	0.10	2521	3.92	514	140	0.22	6513	10.13
421	17	0.03	1043	1.62	468	50	0.08	2571	4.00	515	114	0.18	6627	10.31
422	24	0.04	1067	1.66	469	50	0.08	2621	4.08	516	146	0.23	6773	10.54
423	27	0.04	1094	1.70	470	44	0.07	2665	4.15	517	152	0.24	6925	10.78
424	21	0.03	1115	1.74	471	51	0.08	2716	4.23	518	160	0.25	7085	11.03
425	16	0.02	1131	1.76	472	60	0.09	2776	4.32	519	126	0.20	7211	11.22
426	23	0.04	1154	1.80	473	50	0.08	2826	4.40	520	131	0.20	7342	11.42
427	15	0.02	1169	1.82	474	66	0.10	2892	4.50	521	151	0.23	7493	11.66
428	19	0.03	1188	1.85	475	42	0.07	2934	4.57	522	159	0.25	7652	11.91
429	17	0.03	1205	1.88	476	57	0.09	2991	4.65	523	153	0.24	7805	12.15
430	19	0.03	1224	1.90	477	53	0.08	3044	4.74	524	144	0.22	7949	12.37
431	17	0.03	1241	1.93	478	62	0.10	3106	4.83	525	145	0.23	8094	12.60
432	26	0.04	1267	1.97	479	68	0.11	3174	4.94	526	175	0.27	8269	12.87
433	24	0.04	1291	2.01	480	58	0.09	3232	5.03	527	172	0.27	8441	13.14
434	17	0.03	1308	2.04	481	53	0.08	3285	5.11	528	164	0.26	8605	13.39
435	27	0.04	1335	2.08	482	78	0.12	3363	5.23	529	195	0.30	8800	13.69
436	33	0.05	1368	2.13	483	79	0.12	3442	5.36	530	190	0.30	8990	13.99
437	27	0.04	1395	2.17	484	71	0.11	3513	5.47	531	185	0.29	9175	14.28
438	27	0.04	1422	2.21	485	76	0.12	3589	5.58	532	193	0.30	9368	14.58
439	20	0.03	1442	2.24	486	81	0.13	3670	5.71	533	187	0.29	9555	14.87
440	26	0.04	1468	2.28	487	73	0.11	3743	5.82	534	190	0.30	9745	15.16
441	32	0.05	1500	2.33	488	70	0.11	3813	5.93	535	212	0.33	9957	15.49
442	25	0.04	1525	2.37	489	91	0.14	3904	6.08	536	215	0.33	10172	15.83
443	32	0.05	1557	2.42	490	72	0.11	3976	6.19	537	218	0.34	10390	16.17
444	29	0.05	1586	2.47	491	74	0.12	4050	6.30	538	209	0.33	10599	16.49
445	36	0.06	1622	2.52	492	86	0.13	4136	6.44	539	211	0.33	10810	16.82
446	28	0.04	1650	2.57	493	87	0.14	4223	6.57	540	242	0.38	11052	17.20
447	37	0.06	1687	2.63	494	93	0.14	4316	6.72	541	236	0.37	11288	17.57
448	34	0.05	1721	2.68	495	92	0.14	4408	6.86	542	224	0.35	11512	17.91
449	32	0.05	1753	2.73	496	105	0.16	4513	7.02	543	227	0.35	11739	18.27
450	31	0.05	1784	2.78	497	79	0.12	4592	7.15	544	227	0.35	11966	18.62
451	26	0.04	1810	2.82	498	97	0.15	4689	7.30	545	233	0.36	12199	18.98
452	31	0.05	1841	2.86	499	89	0.14	4778	7.44	546	242	0.38	12441	19.36
453	25	0.04	1866	2.90	500	99	0.15	4877	7.59	547	253	0.39	12694	19.75
454	39	0.06	1905	2.96	501	87	0.14	4964	7.72	548	231	0.36	12925	20.11
455	38	0.06	1943	3.02	502	108	0.17	5072	7.89	549	301	0.47	13226	20.58
456	45	0.07	1988	3.09	503	82	0.13	5154	8.02	550	284	0.44	13510	21.02
457	55	0.09	2043	3.18	504	106	0.16	5260	8.19	551	263	0.41	13773	21.43
458	45	0.07	2088	3.25	505	119	0.19	5379	8.37	552	265	0.41	14038	21.84
459	36	0.06	2124	3.31	506	128	0.20	5507	8.57	553	295	0.46	14333	22.30
460	59	0.09	2183	3.40	507	119	0.19	5626	8.75	554	318	0.49	14651	22.80
461	40	0.06	2223	3.46	508	120	0.19	5746	8.94	555	275	0.43	14926	23.23

Table 164. Scale Score Distribution, Reading Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
556	309	0.48	15235	23.71	603	516	0.80	35965	55.97	650	294	0.46	56980	88.67
557	302	0.47	15537	24.18	604	529	0.82	36494	56.79	651	296	0.46	57276	89.13
558	312	0.49	15849	24.66	605	533	0.83	37027	57.62	652	271	0.42	57547	89.55
559	314	0.49	16163	25.15	606	492	0.77	37519	58.38	653	261	0.41	57808	89.96
560	343	0.53	16506	25.69	607	553	0.86	38072	59.24	654	269	0.42	58077	90.37
561	309	0.48	16815	26.17	608	545	0.85	38617	60.09	655	246	0.38	58323	90.76
562	326	0.51	17141	26.67	609	532	0.83	39149	60.92	656	280	0.44	58603	91.19
563	352	0.55	17493	27.22	610	565	0.88	39714	61.80	657	224	0.35	58827	91.54
564	366	0.57	17859	27.79	611	529	0.82	40243	62.62	658	244	0.38	59071	91.92
565	365	0.57	18224	28.36	612	532	0.83	40775	63.45	659	219	0.34	59290	92.26
566	396	0.62	18620	28.97	613	528	0.82	41303	64.27	660	201	0.31	59491	92.57
567	388	0.60	19008	29.58	614	518	0.81	41821	65.08	661	193	0.30	59684	92.87
568	344	0.54	19352	30.11	615	529	0.82	42350	65.90	662	205	0.32	59889	93.19
569	344	0.54	19696	30.65	616	516	0.80	42866	66.70	663	216	0.34	60105	93.53
570	395	0.61	20091	31.26	617	510	0.79	43376	67.50	664	184	0.29	60289	93.82
571	398	0.62	20489	31.88	618	517	0.80	43893	68.30	665	168	0.26	60457	94.08
572	387	0.60	20876	32.49	619	546	0.85	44439	69.15	666	208	0.32	60665	94.40
573	410	0.64	21286	33.12	620	480	0.75	44919	69.90	667	172	0.27	60837	94.67
574	406	0.63	21692	33.76	621	439	0.68	45358	70.58	668	152	0.24	60989	94.91
575	444	0.69	22136	34.45	622	462	0.72	45820	71.30	669	165	0.26	61154	95.16
576	439	0.68	22575	35.13	623	440	0.68	46260	71.99	670	162	0.25	61316	95.41
577	456	0.71	23031	35.84	624	495	0.77	46755	72.76	671	161	0.25	61477	95.66
578	473	0.74	23504	36.57	625	471	0.73	47226	73.49	672	111	0.17	61588	95.84
579	474	0.74	23978	37.31	626	470	0.73	47696	74.22	673	128	0.20	61716	96.04
580	462	0.72	24440	38.03	627	460	0.72	48156	74.94	674	141	0.22	61857	96.26
581	486	0.76	24926	38.79	628	454	0.71	48610	75.64	675	121	0.19	61978	96.44
582	416	0.65	25342	39.43	629	465	0.72	49075	76.37	676	114	0.18	62092	96.62
583	472	0.73	25814	40.17	630	451	0.70	49526	77.07	677	114	0.18	62206	96.80
584	483	0.75	26297	40.92	631	452	0.70	49978	77.77	678	101	0.16	62307	96.96
585	450	0.70	26747	41.62	632	427	0.66	50405	78.44	679	105	0.16	62412	97.12
586	504	0.78	27251	42.41	633	408	0.63	50813	79.07	680	102	0.16	62514	97.28
587	532	0.83	27783	43.23	634	397	0.62	51210	79.69	681	78	0.12	62592	97.40
588	490	0.76	28273	44.00	635	405	0.63	51615	80.32	682	98	0.15	62690	97.55
589	492	0.77	28765	44.76	636	395	0.61	52010	80.93	683	74	0.12	62764	97.67
590	537	0.84	29302	45.60	637	409	0.64	52419	81.57	684	79	0.12	62843	97.79
591	495	0.77	29797	46.37	638	389	0.61	52808	82.17	685	66	0.10	62909	97.89
592	489	0.76	30286	47.13	639	394	0.61	53202	82.79	686	72	0.11	62981	98.01
593	502	0.78	30788	47.91	640	392	0.61	53594	83.40	687	73	0.11	63054	98.12
594	504	0.78	31292	48.69	641	377	0.59	53971	83.98	688	57	0.09	63111	98.21
595	505	0.79	31797	49.48	642	350	0.54	54321	84.53	689	54	0.08	63165	98.29
596	516	0.80	32313	50.28	643	370	0.58	54691	85.10	690	66	0.10	63231	98.39
597	515	0.80	32828	51.08	644	354	0.55	55045	85.66	691	55	0.09	63286	98.48
598	533	0.83	33361	51.91	645	381	0.59	55426	86.25	692	50	0.08	63336	98.56
599	491	0.76	33852	52.68	646	329	0.51	55755	86.76	693	45	0.07	63381	98.63
600	554	0.86	34406	53.54	647	352	0.55	56107	87.31	694	39	0.06	63420	98.69
601	546	0.85	34952	54.39	648	283	0.44	56390	87.75	695	50	0.08	63470	98.77
602	497	0.77	35449	55.16	649	296	0.46	56686	88.21	696	44	0.07	63514	98.83

Table 164. Scale Score Distribution, Reading Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
697	38	0.06	63552	98.89	744	2	0.00	64212	99.92
698	45	0.07	63597	98.96	745	1	0.00	64213	99.92
699	38	0.06	63635	99.02	746	4	0.01	64217	99.93
700	29	0.05	63664	99.07	747	3	0.00	64220	99.93
701	33	0.05	63697	99.12	748	1	0.00	64221	99.93
702	35	0.05	63732	99.17	749	1	0.00	64222	99.94
703	26	0.04	63758	99.21	750	2	0.00	64224	99.94
704	39	0.06	63797	99.27	751	2	0.00	64226	99.94
705	25	0.04	63822	99.31	752	1	0.00	64227	99.94
706	26	0.04	63848	99.35	753	4	0.01	64231	99.95
707	17	0.03	63865	99.38	754	4	0.01	64235	99.96
708	23	0.04	63888	99.42	755	2	0.00	64237	99.96
709	14	0.02	63902	99.44	756	1	0.00	64238	99.96
710	14	0.02	63916	99.46	757	2	0.00	64240	99.96
711	24	0.04	63940	99.50	760	1	0.00	64241	99.97
712	17	0.03	63957	99.52	761	1	0.00	64242	99.97
713	15	0.02	63972	99.55	762	3	0.00	64245	99.97
714	14	0.02	63986	99.57	763	2	0.00	64247	99.98
715	24	0.04	64010	99.61	768	1	0.00	64248	99.98
716	14	0.02	64024	99.63	769	2	0.00	64250	99.98
717	8	0.01	64032	99.64	770	1	0.00	64251	99.98
718	18	0.03	64050	99.67	771	1	0.00	64252	99.98
719	19	0.03	64069	99.70	778	1	0.00	64253	99.98
720	9	0.01	64078	99.71	781	1	0.00	64254	99.99
721	12	0.02	64090	99.73	787	1	0.00	64255	99.99
722	5	0.01	64095	99.74	789	2	0.00	64257	99.99
723	3	0.00	64098	99.74	790	1	0.00	64258	99.99
724	8	0.01	64106	99.76	802	1	0.00	64259	99.99
725	9	0.01	64115	99.77	813	1	0.00	64260	100.00
726	7	0.01	64122	99.78	814	1	0.00	64261	100.00
727	6	0.01	64128	99.79	816	2	0.00	64263	100.00
728	8	0.01	64136	99.80					
729	7	0.01	64143	99.81					
730	5	0.01	64148	99.82					
731	7	0.01	64155	99.83					
732	7	0.01	64162	99.84					
733	5	0.01	64167	99.85					
734	5	0.01	64172	99.86					
735	10	0.02	64182	99.87					
736	4	0.01	64186	99.88					
737	4	0.01	64190	99.89					
738	1	0.00	64191	99.89					
739	7	0.01	64198	99.90					
740	2	0.00	64200	99.90					
741	3	0.00	64203	99.91					
742	4	0.01	64207	99.91					
743	3	0.00	64210	99.92					

Table 165. Scale Score Distribution, Reading Grade 4 (Spanish)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	1	0.93	1	0.93	546	1	0.93	78	72.22
338	1	0.93	2	1.85	547	2	1.85	80	74.07
420	1	0.93	3	2.78	548	1	0.93	81	75.00
431	1	0.93	4	3.70	549	2	1.85	83	76.85
441	1	0.93	5	4.63	551	1	0.93	84	77.78
448	1	0.93	6	5.56	554	2	1.85	86	79.63
463	1	0.93	7	6.48	555	2	1.85	88	81.48
466	1	0.93	8	7.41	556	1	0.93	89	82.41
470	2	1.85	10	9.26	558	2	1.85	91	84.26
476	1	0.93	11	10.19	560	1	0.93	92	85.19
478	1	0.93	12	11.11	562	1	0.93	93	86.11
480	1	0.93	13	12.04	563	1	0.93	94	87.04
482	2	1.85	15	13.89	564	1	0.93	95	87.96
484	2	1.85	17	15.74	568	1	0.93	96	88.89
485	1	0.93	18	16.67	569	3	2.78	99	91.67
488	2	1.85	20	18.52	572	2	1.85	101	93.52
489	2	1.85	22	20.37	583	1	0.93	102	94.44
490	2	1.85	24	22.22	588	1	0.93	103	95.37
495	1	0.93	25	23.15	590	1	0.93	104	96.30
496	3	2.78	28	25.93	605	1	0.93	105	97.22
498	2	1.85	30	27.78	609	1	0.93	106	98.15
499	1	0.93	31	28.70	616	1	0.93	107	99.07
501	2	1.85	33	30.56	622	1	0.93	108	100.00
504	1	0.93	34	31.48					
510	1	0.93	35	32.41					
512	1	0.93	36	33.33					
514	1	0.93	37	34.26					
516	1	0.93	38	35.19					
519	6	5.56	44	40.74					
520	1	0.93	45	41.67					
522	2	1.85	47	43.52					
523	4	3.70	51	47.22					
524	4	3.70	55	50.93					
526	1	0.93	56	51.85					
527	3	2.78	59	54.63					
528	3	2.78	62	57.41					
529	2	1.85	64	59.26					
530	1	0.93	65	60.19					
531	2	1.85	67	62.04					
533	1	0.93	68	62.96					
536	2	1.85	70	64.81					
538	1	0.93	71	65.74					
539	1	0.93	72	66.67					
540	2	1.85	74	68.52					
542	1	0.93	75	69.44					
543	1	0.93	76	70.37					
545	1	0.93	77	71.30					

Table 166. Scale Score Distribution, Writing Grade 4

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
190	8	0.01	8	0.01	299	2	0.00	76	0.12	346	16	0.02	324	0.50
217	1	0.00	9	0.01	300	4	0.01	80	0.12	347	11	0.02	335	0.52
219	1	0.00	10	0.02	301	4	0.01	84	0.13	348	19	0.03	354	0.55
222	1	0.00	11	0.02	302	2	0.00	86	0.13	349	26	0.04	380	0.59
224	1	0.00	12	0.02	303	2	0.00	88	0.14	350	14	0.02	394	0.61
226	1	0.00	13	0.02	304	3	0.00	91	0.14	351	13	0.02	407	0.63
236	1	0.00	14	0.02	305	2	0.00	93	0.14	352	20	0.03	427	0.67
239	1	0.00	15	0.02	306	2	0.00	95	0.15	353	19	0.03	446	0.70
240	1	0.00	16	0.02	307	4	0.01	99	0.15	354	19	0.03	465	0.72
242	2	0.00	18	0.03	308	3	0.00	102	0.16	355	17	0.03	482	0.75
244	2	0.00	20	0.03	309	2	0.00	104	0.16	356	12	0.02	494	0.77
247	1	0.00	21	0.03	310	2	0.00	106	0.17	357	23	0.04	517	0.81
252	1	0.00	22	0.03	311	7	0.01	113	0.18	358	19	0.03	536	0.84
253	1	0.00	23	0.04	312	3	0.00	116	0.18	359	15	0.02	551	0.86
255	1	0.00	24	0.04	313	2	0.00	118	0.18	360	29	0.05	580	0.90
257	1	0.00	25	0.04	314	5	0.01	123	0.19	361	20	0.03	600	0.94
260	1	0.00	26	0.04	315	4	0.01	127	0.20	362	22	0.03	622	0.97
261	1	0.00	27	0.04	316	3	0.00	130	0.20	363	32	0.05	654	1.02
262	2	0.00	29	0.05	317	5	0.01	135	0.21	364	35	0.05	689	1.07
263	3	0.00	32	0.05	318	4	0.01	139	0.22	365	35	0.05	724	1.13
264	2	0.00	34	0.05	319	3	0.00	142	0.22	366	32	0.05	756	1.18
265	1	0.00	35	0.05	320	5	0.01	147	0.23	367	50	0.08	806	1.26
266	1	0.00	36	0.06	321	2	0.00	149	0.23	368	30	0.05	836	1.30
267	2	0.00	38	0.06	322	2	0.00	151	0.24	369	28	0.04	864	1.35
268	1	0.00	39	0.06	323	1	0.00	152	0.24	370	38	0.06	902	1.41
271	1	0.00	40	0.06	324	4	0.01	156	0.24	371	32	0.05	934	1.46
273	1	0.00	41	0.06	325	6	0.01	162	0.25	372	40	0.06	974	1.52
275	1	0.00	42	0.07	326	5	0.01	167	0.26	373	40	0.06	1014	1.58
277	1	0.00	43	0.07	327	3	0.00	170	0.26	374	44	0.07	1058	1.65
278	2	0.00	45	0.07	328	8	0.01	178	0.28	375	37	0.06	1095	1.71
279	1	0.00	46	0.07	329	4	0.01	182	0.28	376	47	0.07	1142	1.78
282	1	0.00	47	0.07	330	6	0.01	188	0.29	377	42	0.07	1184	1.85
283	1	0.00	48	0.07	331	3	0.00	191	0.30	378	52	0.08	1236	1.93
284	4	0.01	52	0.08	332	8	0.01	199	0.31	379	43	0.07	1279	1.99
285	2	0.00	54	0.08	333	5	0.01	204	0.32	380	41	0.06	1320	2.06
286	1	0.00	55	0.09	334	9	0.01	213	0.33	381	48	0.07	1368	2.13
288	1	0.00	56	0.09	335	9	0.01	222	0.35	382	41	0.06	1409	2.20
289	1	0.00	57	0.09	336	6	0.01	228	0.36	383	56	0.09	1465	2.28
290	2	0.00	59	0.09	337	9	0.01	237	0.37	384	54	0.08	1519	2.37
291	1	0.00	60	0.09	338	7	0.01	244	0.38	385	54	0.08	1573	2.45
292	2	0.00	62	0.10	339	7	0.01	251	0.39	386	60	0.09	1633	2.54
293	2	0.00	64	0.10	340	2	0.00	253	0.39	387	46	0.07	1679	2.62
294	3	0.00	67	0.10	341	17	0.03	270	0.42	388	71	0.11	1750	2.73
295	2	0.00	69	0.11	342	14	0.02	284	0.44	389	44	0.07	1794	2.80
296	1	0.00	70	0.11	343	8	0.01	292	0.46	390	69	0.11	1863	2.90
297	2	0.00	72	0.11	344	5	0.01	297	0.46	391	81	0.13	1944	3.03
298	2	0.00	74	0.12	345	11	0.02	308	0.48	392	73	0.11	2017	3.14

Table 166. Scale Score Distribution, Writing Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
393	66	0.10	2083	3.25	440	302	0.47	10763	16.77	487	572	0.89	31564	49.19
394	86	0.13	2169	3.38	441	293	0.46	11056	17.23	488	535	0.83	32099	50.02
395	78	0.12	2247	3.50	442	310	0.48	11366	17.71	489	602	0.94	32701	50.96
396	85	0.13	2332	3.63	443	293	0.46	11659	18.17	490	541	0.84	33242	51.81
397	85	0.13	2417	3.77	444	344	0.54	12003	18.71	491	594	0.93	33836	52.73
398	92	0.14	2509	3.91	445	304	0.47	12307	19.18	492	563	0.88	34399	53.61
399	109	0.17	2618	4.08	446	351	0.55	12658	19.73	493	538	0.84	34937	54.45
400	116	0.18	2734	4.26	447	332	0.52	12990	20.24	494	582	0.91	35519	55.35
401	103	0.16	2837	4.42	448	345	0.54	13335	20.78	495	551	0.86	36070	56.21
402	120	0.19	2957	4.61	449	343	0.53	13678	21.32	496	583	0.91	36653	57.12
403	112	0.17	3069	4.78	450	371	0.58	14049	21.89	497	549	0.86	37202	57.98
404	112	0.17	3181	4.96	451	384	0.60	14433	22.49	498	520	0.81	37722	58.79
405	110	0.17	3291	5.13	452	363	0.57	14796	23.06	499	510	0.79	38232	59.58
406	116	0.18	3407	5.31	453	384	0.60	15180	23.66	500	533	0.83	38765	60.41
407	142	0.22	3549	5.53	454	370	0.58	15550	24.23	501	513	0.80	39278	61.21
408	150	0.23	3699	5.76	455	372	0.58	15922	24.81	502	540	0.84	39818	62.05
409	128	0.20	3827	5.96	456	406	0.63	16328	25.45	503	553	0.86	40371	62.92
410	143	0.22	3970	6.19	457	386	0.60	16714	26.05	504	567	0.88	40938	63.80
411	132	0.21	4102	6.39	458	413	0.64	17127	26.69	505	499	0.78	41437	64.58
412	153	0.24	4255	6.63	459	395	0.62	17522	27.31	506	536	0.84	41973	65.41
413	174	0.27	4429	6.90	460	423	0.66	17945	27.97	507	501	0.78	42474	66.19
414	148	0.23	4577	7.13	461	453	0.71	18398	28.67	508	505	0.79	42979	66.98
415	202	0.31	4779	7.45	462	469	0.73	18867	29.40	509	505	0.79	43484	67.77
416	176	0.27	4955	7.72	463	441	0.69	19308	30.09	510	503	0.78	43987	68.55
417	179	0.28	5134	8.00	464	466	0.73	19774	30.82	511	521	0.81	44508	69.36
418	175	0.27	5309	8.27	465	434	0.68	20208	31.49	512	490	0.76	44998	70.13
419	195	0.30	5504	8.58	466	507	0.79	20715	32.28	513	473	0.74	45471	70.86
420	192	0.30	5696	8.88	467	459	0.72	21174	33.00	514	488	0.76	45959	71.63
421	193	0.30	5889	9.18	468	413	0.64	21587	33.64	515	492	0.77	46451	72.39
422	212	0.33	6101	9.51	469	480	0.75	22067	34.39	516	492	0.77	46943	73.16
423	206	0.32	6307	9.83	470	480	0.75	22547	35.14	517	504	0.79	47447	73.94
424	211	0.33	6518	10.16	471	494	0.77	23041	35.91	518	417	0.65	47864	74.59
425	219	0.34	6737	10.50	472	509	0.79	23550	36.70	519	449	0.70	48313	75.29
426	246	0.38	6983	10.88	473	466	0.73	24016	37.43	520	467	0.73	48780	76.02
427	253	0.39	7236	11.28	474	515	0.80	24531	38.23	521	450	0.70	49230	76.72
428	253	0.39	7489	11.67	475	520	0.81	25051	39.04	522	458	0.71	49688	77.44
429	255	0.40	7744	12.07	476	493	0.77	25544	39.81	523	384	0.60	50072	78.04
430	271	0.42	8015	12.49	477	547	0.85	26091	40.66	524	377	0.59	50449	78.62
431	267	0.42	8282	12.91	478	534	0.83	26625	41.49	525	383	0.60	50832	79.22
432	242	0.38	8524	13.28	479	539	0.84	27164	42.33	526	402	0.63	51234	79.85
433	269	0.42	8793	13.70	480	497	0.77	27661	43.11	527	388	0.60	51622	80.45
434	272	0.42	9065	14.13	481	541	0.84	28202	43.95	528	374	0.58	51996	81.03
435	279	0.43	9344	14.56	482	544	0.85	28746	44.80	529	396	0.62	52392	81.65
436	257	0.40	9601	14.96	483	571	0.89	29317	45.69	530	339	0.53	52731	82.18
437	273	0.43	9874	15.39	484	549	0.86	29866	46.54	531	363	0.57	53094	82.74
438	267	0.42	10141	15.80	485	549	0.86	30415	47.40	532	327	0.51	53421	83.25
439	320	0.50	10461	16.30	486	577	0.90	30992	48.30	533	361	0.56	53782	83.82

Table 166. Scale Score Distribution, Writing Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
534	361	0.56	54143	84.38	581	66	0.10	62315	97.12	628	4	0.01	63845	99.50
535	318	0.50	54461	84.88	582	61	0.10	62376	97.21	629	1	0.00	63846	99.50
536	327	0.51	54788	85.38	583	48	0.07	62424	97.29	630	13	0.02	63859	99.52
537	301	0.47	55089	85.85	584	78	0.12	62502	97.41	631	6	0.01	63865	99.53
538	314	0.49	55403	86.34	585	76	0.12	62578	97.53	632	8	0.01	63873	99.54
539	284	0.44	55687	86.79	586	52	0.08	62630	97.61	633	1	0.00	63874	99.54
540	284	0.44	55971	87.23	587	58	0.09	62688	97.70	634	3	0.00	63877	99.55
541	266	0.41	56237	87.64	588	61	0.10	62749	97.79	635	2	0.00	63879	99.55
542	284	0.44	56521	88.09	589	50	0.08	62799	97.87	636	19	0.03	63898	99.58
543	258	0.40	56779	88.49	590	47	0.07	62846	97.94	637	3	0.00	63901	99.59
544	264	0.41	57043	88.90	591	61	0.10	62907	98.04	638	21	0.03	63922	99.62
545	265	0.41	57308	89.31	592	54	0.08	62961	98.12	639	18	0.03	63940	99.65
546	224	0.35	57532	89.66	593	46	0.07	63007	98.19	640	4	0.01	63944	99.65
547	232	0.36	57764	90.02	594	53	0.08	63060	98.28	641	6	0.01	63950	99.66
548	209	0.33	57973	90.35	595	55	0.09	63115	98.36	642	8	0.01	63958	99.68
549	219	0.34	58192	90.69	596	25	0.04	63140	98.40	643	5	0.01	63963	99.68
550	198	0.31	58390	91.00	597	26	0.04	63166	98.44	644	6	0.01	63969	99.69
551	200	0.31	58590	91.31	598	36	0.06	63202	98.50	645	2	0.00	63971	99.70
552	223	0.35	58813	91.66	599	35	0.05	63237	98.55	646	20	0.03	63991	99.73
553	167	0.26	58980	91.92	600	43	0.07	63280	98.62	647	15	0.02	64006	99.75
554	179	0.28	59159	92.20	601	25	0.04	63305	98.66	649	8	0.01	64014	99.76
555	177	0.28	59336	92.47	602	33	0.05	63338	98.71	652	6	0.01	64020	99.77
556	163	0.25	59499	92.73	603	38	0.06	63376	98.77	653	1	0.00	64021	99.77
557	168	0.26	59667	92.99	604	41	0.06	63417	98.83	654	4	0.01	64025	99.78
558	157	0.24	59824	93.23	605	41	0.06	63458	98.90	655	6	0.01	64031	99.79
559	138	0.22	59962	93.45	606	18	0.03	63476	98.92	657	1	0.00	64032	99.79
560	136	0.21	60098	93.66	607	34	0.05	63510	98.98	658	4	0.01	64036	99.80
561	170	0.26	60268	93.93	608	15	0.02	63525	99.00	662	4	0.01	64040	99.80
562	143	0.22	60411	94.15	609	29	0.05	63554	99.05	667	8	0.01	64048	99.82
563	136	0.21	60547	94.36	610	6	0.01	63560	99.06	669	20	0.03	64068	99.85
564	134	0.21	60681	94.57	611	23	0.04	63583	99.09	671	4	0.01	64072	99.85
565	132	0.21	60813	94.77	612	25	0.04	63608	99.13	681	13	0.02	64085	99.87
566	129	0.20	60942	94.98	613	29	0.05	63637	99.18	683	21	0.03	64106	99.91
567	104	0.16	61046	95.14	614	12	0.02	63649	99.19	688	23	0.04	64129	99.94
568	137	0.21	61183	95.35	615	12	0.02	63661	99.21	694	1	0.00	64130	99.94
569	102	0.16	61285	95.51	616	11	0.02	63672	99.23	707	10	0.02	64140	99.96
570	122	0.19	61407	95.70	617	11	0.02	63683	99.25	730	26	0.04	64166	100.00
571	99	0.15	61506	95.85	618	40	0.06	63723	99.31					
572	74	0.12	61580	95.97	619	30	0.05	63753	99.36					
573	92	0.14	61672	96.11	620	15	0.02	63768	99.38					
574	81	0.13	61753	96.24	621	7	0.01	63775	99.39					
575	94	0.15	61847	96.39	622	11	0.02	63786	99.41					
576	87	0.14	61934	96.52	623	13	0.02	63799	99.43					
577	70	0.11	62004	96.63	624	14	0.02	63813	99.45					
578	86	0.13	62090	96.76	625	14	0.02	63827	99.47					
579	92	0.14	62182	96.91	626	9	0.01	63836	99.49					
580	67	0.10	62249	97.01	627	5	0.01	63841	99.49					

Table 167. Scale Score Distribution, Writing Grade 4 (Spanish)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
381	1	0.98	1	0.98	525	1	0.98	77	75.49
382	1	0.98	2	1.96	526	3	2.94	80	78.43
391	1	0.98	3	2.94	527	2	1.96	82	80.39
408	1	0.98	4	3.92	535	1	0.98	83	81.37
409	1	0.98	5	4.90	536	1	0.98	84	82.35
415	1	0.98	6	5.88	537	1	0.98	85	83.33
423	2	1.96	8	7.84	538	1	0.98	86	84.31
424	1	0.98	9	8.82	540	2	1.96	88	86.27
427	2	1.96	11	10.78	541	1	0.98	89	87.25
428	1	0.98	12	11.76	543	1	0.98	90	88.24
443	1	0.98	13	12.75	544	1	0.98	91	89.22
446	1	0.98	14	13.73	548	2	1.96	93	91.18
453	2	1.96	16	15.69	551	1	0.98	94	92.16
457	1	0.98	17	16.67	553	1	0.98	95	93.14
462	2	1.96	19	18.63	557	1	0.98	96	94.12
463	1	0.98	20	19.61	567	1	0.98	97	95.10
464	2	1.96	22	21.57	571	1	0.98	98	96.08
466	1	0.98	23	22.55	575	1	0.98	99	97.06
467	3	2.94	26	25.49	576	2	1.96	101	99.02
468	1	0.98	27	26.47	616	1	0.98	102	100.00
472	1	0.98	28	27.45					
473	1	0.98	29	28.43					
475	1	0.98	30	29.41					
479	1	0.98	31	30.39					
482	3	2.94	34	33.33					
483	1	0.98	35	34.31					
484	1	0.98	36	35.29					
487	2	1.96	38	37.25					
488	3	2.94	41	40.20					
489	1	0.98	42	41.18					
490	3	2.94	45	44.12					
491	1	0.98	46	45.10					
495	1	0.98	47	46.08					
496	2	1.96	49	48.04					
497	3	2.94	52	50.98					
498	1	0.98	53	51.96					
501	2	1.96	55	53.92					
504	5	4.90	60	58.82					
505	3	2.94	63	61.76					
506	2	1.96	65	63.73					
507	2	1.96	67	65.69					
508	1	0.98	68	66.67					
510	2	1.96	70	68.63					
512	3	2.94	73	71.57					
514	1	0.98	74	72.55					
519	1	0.98	75	73.53					
522	1	0.98	76	74.51					

Table 168. Scale Score Distribution, Mathematics Grade 4

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
180	101	0.16	101	0.16	233	9	0.01	276	0.43	280	13	0.02	680	1.06
181	1	0.00	102	0.16	234	8	0.01	284	0.44	281	17	0.03	697	1.08
182	1	0.00	103	0.16	235	8	0.01	292	0.45	282	13	0.02	710	1.10
183	1	0.00	104	0.16	236	13	0.02	305	0.47	283	14	0.02	724	1.12
184	2	0.00	106	0.16	237	4	0.01	309	0.48	284	8	0.01	732	1.14
187	1	0.00	107	0.17	238	3	0.00	312	0.48	285	20	0.03	752	1.17
189	3	0.00	110	0.17	239	3	0.00	315	0.49	286	11	0.02	763	1.19
191	1	0.00	111	0.17	240	3	0.00	318	0.49	287	15	0.02	778	1.21
192	4	0.01	115	0.18	241	4	0.01	322	0.50	288	21	0.03	799	1.24
193	2	0.00	117	0.18	242	6	0.01	328	0.51	289	16	0.02	815	1.27
194	2	0.00	119	0.18	243	3	0.00	331	0.51	290	21	0.03	836	1.30
195	4	0.01	123	0.19	244	6	0.01	337	0.52	291	16	0.02	852	1.32
196	3	0.00	126	0.20	245	6	0.01	343	0.53	292	19	0.03	871	1.35
198	7	0.01	133	0.21	246	7	0.01	350	0.54	293	23	0.04	894	1.39
199	2	0.00	135	0.21	247	8	0.01	358	0.56	294	15	0.02	909	1.41
200	1	0.00	136	0.21	248	1	0.00	359	0.56	295	19	0.03	928	1.44
201	3	0.00	139	0.22	249	6	0.01	365	0.57	296	24	0.04	952	1.48
202	3	0.00	142	0.22	250	10	0.02	375	0.58	297	20	0.03	972	1.51
203	4	0.01	146	0.23	251	9	0.01	384	0.60	298	24	0.04	996	1.55
204	3	0.00	149	0.23	252	5	0.01	389	0.60	299	24	0.04	1020	1.58
205	2	0.00	151	0.23	253	8	0.01	397	0.62	300	26	0.04	1046	1.63
206	5	0.01	156	0.24	254	9	0.01	406	0.63	301	21	0.03	1067	1.66
208	4	0.01	160	0.25	255	8	0.01	414	0.64	302	22	0.03	1089	1.69
209	4	0.01	164	0.25	256	6	0.01	420	0.65	303	21	0.03	1110	1.72
210	2	0.00	166	0.26	257	9	0.01	429	0.67	304	29	0.05	1139	1.77
211	4	0.01	170	0.26	258	4	0.01	433	0.67	305	20	0.03	1159	1.80
212	2	0.00	172	0.27	259	9	0.01	442	0.69	306	23	0.04	1182	1.84
213	5	0.01	177	0.27	260	9	0.01	451	0.70	307	22	0.03	1204	1.87
214	2	0.00	179	0.28	261	12	0.02	463	0.72	308	31	0.05	1235	1.92
215	7	0.01	186	0.29	262	10	0.02	473	0.73	309	30	0.05	1265	1.97
216	2	0.00	188	0.29	263	8	0.01	481	0.75	310	28	0.04	1293	2.01
217	4	0.01	192	0.30	264	8	0.01	489	0.76	311	30	0.05	1323	2.06
218	6	0.01	198	0.31	265	15	0.02	504	0.78	312	28	0.04	1351	2.10
219	5	0.01	203	0.32	266	6	0.01	510	0.79	313	34	0.05	1385	2.15
220	2	0.00	205	0.32	267	14	0.02	524	0.81	314	34	0.05	1419	2.20
221	6	0.01	211	0.33	268	8	0.01	532	0.83	315	34	0.05	1453	2.26
222	3	0.00	214	0.33	269	17	0.03	549	0.85	316	26	0.04	1479	2.30
223	6	0.01	220	0.34	270	12	0.02	561	0.87	317	31	0.05	1510	2.35
224	2	0.00	222	0.34	271	8	0.01	569	0.88	318	24	0.04	1534	2.38
225	2	0.00	224	0.35	272	16	0.02	585	0.91	319	39	0.06	1573	2.44
226	2	0.00	226	0.35	273	11	0.02	596	0.93	320	37	0.06	1610	2.50
227	10	0.02	236	0.37	274	12	0.02	608	0.94	321	29	0.05	1639	2.55
228	5	0.01	241	0.37	275	9	0.01	617	0.96	322	27	0.04	1666	2.59
229	3	0.00	244	0.38	276	15	0.02	632	0.98	323	31	0.05	1697	2.64
230	10	0.02	254	0.39	277	12	0.02	644	1.00	324	32	0.05	1729	2.69
231	10	0.02	264	0.41	278	12	0.02	656	1.02	325	37	0.06	1766	2.74
232	3	0.00	267	0.41	279	11	0.02	667	1.04	326	35	0.05	1801	2.80

Table 168. Scale Score Distribution, Mathematics Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
327	30	0.05	1831	2.84	374	75	0.12	4619	7.18	421	169	0.26	10624	16.51
328	56	0.09	1887	2.93	375	82	0.13	4701	7.30	422	149	0.23	10773	16.74
329	29	0.05	1916	2.98	376	82	0.13	4783	7.43	423	191	0.30	10964	17.03
330	41	0.06	1957	3.04	377	92	0.14	4875	7.57	424	172	0.27	11136	17.30
331	47	0.07	2004	3.11	378	105	0.16	4980	7.74	425	170	0.26	11306	17.57
332	36	0.06	2040	3.17	379	106	0.16	5086	7.90	426	178	0.28	11484	17.84
333	33	0.05	2073	3.22	380	98	0.15	5184	8.05	427	196	0.30	11680	18.15
334	51	0.08	2124	3.30	381	89	0.14	5273	8.19	428	195	0.30	11875	18.45
335	50	0.08	2174	3.38	382	81	0.13	5354	8.32	429	187	0.29	12062	18.74
336	32	0.05	2206	3.43	383	102	0.16	5456	8.48	430	219	0.34	12281	19.08
337	54	0.08	2260	3.51	384	91	0.14	5547	8.62	431	196	0.30	12477	19.38
338	42	0.07	2302	3.58	385	97	0.15	5644	8.77	432	227	0.35	12704	19.74
339	49	0.08	2351	3.65	386	125	0.19	5769	8.96	433	194	0.30	12898	20.04
340	38	0.06	2389	3.71	387	97	0.15	5866	9.11	434	230	0.36	13128	20.40
341	50	0.08	2439	3.79	388	126	0.20	5992	9.31	435	246	0.38	13374	20.78
342	47	0.07	2486	3.86	389	102	0.16	6094	9.47	436	217	0.34	13591	21.12
343	44	0.07	2530	3.93	390	106	0.16	6200	9.63	437	217	0.34	13808	21.45
344	62	0.10	2592	4.03	391	108	0.17	6308	9.80	438	210	0.33	14018	21.78
345	49	0.08	2641	4.10	392	117	0.18	6425	9.98	439	224	0.35	14242	22.13
346	47	0.07	2688	4.18	393	124	0.19	6549	10.17	440	244	0.38	14486	22.51
347	53	0.08	2741	4.26	394	132	0.21	6681	10.38	441	211	0.33	14697	22.83
348	56	0.09	2797	4.35	395	126	0.20	6807	10.58	442	246	0.38	14943	23.22
349	65	0.10	2862	4.45	396	136	0.21	6943	10.79	443	206	0.32	15149	23.54
350	54	0.08	2916	4.53	397	108	0.17	7051	10.95	444	249	0.39	15398	23.92
351	61	0.09	2977	4.63	398	144	0.22	7195	11.18	445	254	0.39	15652	24.32
352	58	0.09	3035	4.72	399	121	0.19	7316	11.37	446	253	0.39	15905	24.71
353	55	0.09	3090	4.80	400	122	0.19	7438	11.56	447	257	0.40	16162	25.11
354	59	0.09	3149	4.89	401	132	0.21	7570	11.76	448	258	0.40	16420	25.51
355	71	0.11	3220	5.00	402	140	0.22	7710	11.98	449	254	0.39	16674	25.90
356	78	0.12	3298	5.12	403	141	0.22	7851	12.20	450	239	0.37	16913	26.28
357	60	0.09	3358	5.22	404	141	0.22	7992	12.42	451	281	0.44	17194	26.71
358	65	0.10	3423	5.32	405	131	0.20	8123	12.62	452	281	0.44	17475	27.15
359	55	0.09	3478	5.40	406	145	0.23	8268	12.85	453	278	0.43	17753	27.58
360	85	0.13	3563	5.54	407	146	0.23	8414	13.07	454	271	0.42	18024	28.00
361	58	0.09	3621	5.63	408	125	0.19	8539	13.27	455	263	0.41	18287	28.41
362	65	0.10	3686	5.73	409	153	0.24	8692	13.50	456	309	0.48	18596	28.89
363	72	0.11	3758	5.84	410	138	0.21	8830	13.72	457	296	0.46	18892	29.35
364	72	0.11	3830	5.95	411	151	0.23	8981	13.95	458	283	0.44	19175	29.79
365	76	0.12	3906	6.07	412	169	0.26	9150	14.22	459	315	0.49	19490	30.28
366	85	0.13	3991	6.20	413	181	0.28	9331	14.50	460	274	0.43	19764	30.71
367	62	0.10	4053	6.30	414	140	0.22	9471	14.71	461	273	0.42	20037	31.13
368	92	0.14	4145	6.44	415	182	0.28	9653	15.00	462	317	0.49	20354	31.62
369	69	0.11	4214	6.55	416	159	0.25	9812	15.24	463	324	0.50	20678	32.13
370	71	0.11	4285	6.66	417	182	0.28	9994	15.53	464	311	0.48	20989	32.61
371	84	0.13	4369	6.79	418	152	0.24	10146	15.76	465	319	0.50	21308	33.10
372	83	0.13	4452	6.92	419	139	0.22	10285	15.98	466	320	0.50	21628	33.60
373	92	0.14	4544	7.06	420	170	0.26	10455	16.24	467	300	0.47	21928	34.07

Table 168. Scale Score Distribution, Mathematics Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
468	296	0.46	22224	34.53	515	393	0.61	38537	59.87	562	242	0.38	53412	82.98
469	297	0.46	22521	34.99	516	338	0.53	38875	60.40	563	255	0.40	53667	83.38
470	305	0.47	22826	35.46	517	314	0.49	39189	60.88	564	241	0.37	53908	83.75
471	313	0.49	23139	35.95	518	354	0.55	39543	61.43	565	242	0.38	54150	84.13
472	331	0.51	23470	36.46	519	348	0.54	39891	61.98	566	226	0.35	54376	84.48
473	313	0.49	23783	36.95	520	371	0.58	40262	62.55	567	216	0.34	54592	84.81
474	332	0.52	24115	37.47	521	355	0.55	40617	63.10	568	224	0.35	54816	85.16
475	312	0.48	24427	37.95	522	373	0.58	40990	63.68	569	215	0.33	55031	85.50
476	303	0.47	24730	38.42	523	373	0.58	41363	64.26	570	219	0.34	55250	85.84
477	351	0.55	25081	38.97	524	335	0.52	41698	64.78	571	205	0.32	55455	86.16
478	323	0.50	25404	39.47	525	316	0.49	42014	65.27	572	215	0.33	55670	86.49
479	341	0.53	25745	40.00	526	382	0.59	42396	65.87	573	216	0.34	55886	86.83
480	342	0.53	26087	40.53	527	357	0.55	42753	66.42	574	221	0.34	56107	87.17
481	305	0.47	26392	41.00	528	325	0.50	43078	66.93	575	197	0.31	56304	87.47
482	321	0.50	26713	41.50	529	332	0.52	43410	67.44	576	214	0.33	56518	87.81
483	359	0.56	27072	42.06	530	368	0.57	43778	68.01	577	172	0.27	56690	88.07
484	326	0.51	27398	42.57	531	340	0.53	44118	68.54	578	198	0.31	56888	88.38
485	343	0.53	27741	43.10	532	330	0.51	44448	69.06	579	184	0.29	57072	88.67
486	346	0.54	28087	43.64	533	319	0.50	44767	69.55	580	189	0.29	57261	88.96
487	333	0.52	28420	44.15	534	305	0.47	45072	70.02	581	163	0.25	57424	89.21
488	359	0.56	28779	44.71	535	299	0.46	45371	70.49	582	167	0.26	57591	89.47
489	335	0.52	29114	45.23	536	312	0.48	45683	70.97	583	175	0.27	57766	89.75
490	345	0.54	29459	45.77	537	373	0.58	46056	71.55	584	176	0.27	57942	90.02
491	308	0.48	29767	46.25	538	351	0.55	46407	72.10	585	164	0.25	58106	90.27
492	353	0.55	30120	46.79	539	331	0.51	46738	72.61	586	152	0.24	58258	90.51
493	380	0.59	30500	47.39	540	326	0.51	47064	73.12	587	169	0.26	58427	90.77
494	370	0.57	30870	47.96	541	289	0.45	47353	73.57	588	149	0.23	58576	91.00
495	365	0.57	31235	48.53	542	278	0.43	47631	74.00	589	192	0.30	58768	91.30
496	373	0.58	31608	49.11	543	344	0.53	47975	74.53	590	132	0.21	58900	91.51
497	355	0.55	31963	49.66	544	316	0.49	48291	75.03	591	143	0.22	59043	91.73
498	380	0.59	32343	50.25	545	305	0.47	48596	75.50	592	138	0.21	59181	91.94
499	363	0.56	32706	50.81	546	332	0.52	48928	76.02	593	136	0.21	59317	92.16
500	374	0.58	33080	51.39	547	308	0.48	49236	76.49	594	138	0.21	59455	92.37
501	350	0.54	33430	51.94	548	296	0.46	49532	76.95	595	115	0.18	59570	92.55
502	334	0.52	33764	52.46	549	294	0.46	49826	77.41	596	133	0.21	59703	92.76
503	366	0.57	34130	53.02	550	276	0.43	50102	77.84	597	123	0.19	59826	92.95
504	384	0.60	34514	53.62	551	306	0.48	50408	78.31	598	133	0.21	59959	93.15
505	353	0.55	34867	54.17	552	305	0.47	50713	78.79	599	114	0.18	60073	93.33
506	358	0.56	35225	54.73	553	290	0.45	51003	79.24	600	134	0.21	60207	93.54
507	378	0.59	35603	55.31	554	307	0.48	51310	79.72	601	132	0.21	60339	93.74
508	357	0.55	35960	55.87	555	287	0.45	51597	80.16	602	116	0.18	60455	93.92
509	342	0.53	36302	56.40	556	285	0.44	51882	80.60	603	108	0.17	60563	94.09
510	360	0.56	36662	56.96	557	254	0.39	52136	81.00	604	111	0.17	60674	94.26
511	411	0.64	37073	57.60	558	270	0.42	52406	81.42	605	89	0.14	60763	94.40
512	372	0.58	37445	58.18	559	262	0.41	52668	81.83	606	99	0.15	60862	94.56
513	342	0.53	37787	58.71	560	265	0.41	52933	82.24	607	92	0.14	60954	94.70
514	357	0.55	38144	59.26	561	237	0.37	53170	82.61	608	114	0.18	61068	94.88

Table 168. Scale Score Distribution, Mathematics Grade 4 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
609	94	0.15	61162	95.02	656	19	0.03	63581	98.78	703	6	0.01	64147	99.66
610	80	0.12	61242	95.15	657	20	0.03	63601	98.81	704	4	0.01	64151	99.67
611	81	0.13	61323	95.27	658	24	0.04	63625	98.85	705	5	0.01	64156	99.67
612	87	0.14	61410	95.41	659	18	0.03	63643	98.88	706	6	0.01	64162	99.68
613	84	0.13	61494	95.54	660	26	0.04	63669	98.92	707	4	0.01	64166	99.69
614	90	0.14	61584	95.68	661	11	0.02	63680	98.93	708	3	0.00	64169	99.69
615	79	0.12	61663	95.80	662	18	0.03	63698	98.96	709	1	0.00	64170	99.70
616	92	0.14	61755	95.94	663	22	0.03	63720	99.00	710	3	0.00	64173	99.70
617	75	0.12	61830	96.06	664	14	0.02	63734	99.02	712	7	0.01	64180	99.71
618	88	0.14	61918	96.20	665	23	0.04	63757	99.05	713	9	0.01	64189	99.73
619	93	0.14	62011	96.34	666	14	0.02	63771	99.08	714	12	0.02	64201	99.74
620	51	0.08	62062	96.42	667	7	0.01	63778	99.09	716	2	0.00	64203	99.75
621	51	0.08	62113	96.50	668	13	0.02	63791	99.11	719	13	0.02	64216	99.77
622	82	0.13	62195	96.63	669	18	0.03	63809	99.13	721	26	0.04	64242	99.81
623	68	0.11	62263	96.73	670	19	0.03	63828	99.16	722	1	0.00	64243	99.81
624	67	0.10	62330	96.84	671	14	0.02	63842	99.19	723	3	0.00	64246	99.81
625	69	0.11	62399	96.94	672	13	0.02	63855	99.21	724	1	0.00	64247	99.82
626	55	0.09	62454	97.03	673	16	0.02	63871	99.23	725	4	0.01	64251	99.82
627	46	0.07	62500	97.10	674	13	0.02	63884	99.25	726	1	0.00	64252	99.82
628	65	0.10	62565	97.20	675	13	0.02	63897	99.27	728	2	0.00	64254	99.83
629	48	0.07	62613	97.28	676	7	0.01	63904	99.28	729	4	0.01	64258	99.83
630	51	0.08	62664	97.36	677	10	0.02	63914	99.30	730	3	0.00	64261	99.84
631	56	0.09	62720	97.44	678	4	0.01	63918	99.30	731	12	0.02	64273	99.86
632	46	0.07	62766	97.51	679	22	0.03	63940	99.34	733	2	0.00	64275	99.86
633	41	0.06	62807	97.58	680	18	0.03	63958	99.37	735	5	0.01	64280	99.87
634	43	0.07	62850	97.64	681	7	0.01	63965	99.38	736	3	0.00	64283	99.87
635	41	0.06	62891	97.71	682	21	0.03	63986	99.41	742	8	0.01	64291	99.88
636	33	0.05	62924	97.76	683	10	0.02	63996	99.43	744	2	0.00	64293	99.89
637	43	0.07	62967	97.83	684	17	0.03	64013	99.45	745	6	0.01	64299	99.90
638	40	0.06	63007	97.89	685	1	0.00	64014	99.45	748	1	0.00	64300	99.90
639	42	0.07	63049	97.95	686	4	0.01	64018	99.46	749	1	0.00	64301	99.90
640	37	0.06	63086	98.01	687	20	0.03	64038	99.49	750	2	0.00	64303	99.90
641	32	0.05	63118	98.06	688	4	0.01	64042	99.50	751	1	0.00	64304	99.90
642	47	0.07	63165	98.13	689	13	0.02	64055	99.52	755	1	0.00	64305	99.91
643	22	0.03	63187	98.17	690	9	0.01	64064	99.53	760	1	0.00	64306	99.91
644	41	0.06	63228	98.23	691	6	0.01	64070	99.54	761	1	0.00	64307	99.91
645	39	0.06	63267	98.29	692	6	0.01	64076	99.55	762	5	0.01	64312	99.92
646	25	0.04	63292	98.33	693	5	0.01	64081	99.56	764	3	0.00	64315	99.92
647	34	0.05	63326	98.38	694	9	0.01	64090	99.57	769	1	0.00	64316	99.92
648	29	0.05	63355	98.43	695	10	0.02	64100	99.59	771	3	0.00	64319	99.93
649	31	0.05	63386	98.48	696	7	0.01	64107	99.60	775	3	0.00	64322	99.93
650	34	0.05	63420	98.53	697	9	0.01	64116	99.61	776	3	0.00	64325	99.94
651	34	0.05	63454	98.58	698	12	0.02	64128	99.63	779	1	0.00	64326	99.94
652	37	0.06	63491	98.64	699	2	0.00	64130	99.63	780	40	0.06	64366	100.00
653	23	0.04	63514	98.68	700	5	0.01	64135	99.64					
654	22	0.03	63536	98.71	701	3	0.00	64138	99.65					
655	26	0.04	63562	98.75	702	3	0.00	64141	99.65					

Table 169. Scale Score Distribution, Reading Grade 5

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
220	328	0.52	328	0.52	298	2	0.00	394	0.62	358	4	0.01	489	0.77
222	1	0.00	329	0.52	299	4	0.01	398	0.63	359	1	0.00	490	0.78
223	3	0.00	332	0.53	301	1	0.00	399	0.63	360	1	0.00	491	0.78
225	1	0.00	333	0.53	302	3	0.00	402	0.64	361	2	0.00	493	0.78
226	1	0.00	334	0.53	304	1	0.00	403	0.64	362	3	0.00	496	0.78
227	1	0.00	335	0.53	306	1	0.00	404	0.64	363	4	0.01	500	0.79
228	1	0.00	336	0.53	307	2	0.00	406	0.64	364	7	0.01	507	0.80
229	1	0.00	337	0.53	308	3	0.00	409	0.65	365	1	0.00	508	0.80
230	1	0.00	338	0.53	309	2	0.00	411	0.65	366	2	0.00	510	0.81
231	1	0.00	339	0.54	310	1	0.00	412	0.65	367	2	0.00	512	0.81
232	1	0.00	340	0.54	311	1	0.00	413	0.65	368	1	0.00	513	0.81
233	1	0.00	341	0.54	313	4	0.01	417	0.66	369	4	0.01	517	0.82
235	3	0.00	344	0.54	316	1	0.00	418	0.66	370	1	0.00	518	0.82
236	1	0.00	345	0.55	319	1	0.00	419	0.66	372	3	0.00	521	0.82
237	1	0.00	346	0.55	320	1	0.00	420	0.66	373	4	0.01	525	0.83
238	1	0.00	347	0.55	321	3	0.00	423	0.67	374	4	0.01	529	0.84
239	2	0.00	349	0.55	322	1	0.00	424	0.67	375	1	0.00	530	0.84
240	1	0.00	350	0.55	323	1	0.00	425	0.67	376	2	0.00	532	0.84
242	1	0.00	351	0.56	324	3	0.00	428	0.68	377	5	0.01	537	0.85
243	1	0.00	352	0.56	326	1	0.00	429	0.68	378	3	0.00	540	0.85
244	1	0.00	353	0.56	328	2	0.00	431	0.68	379	4	0.01	544	0.86
247	2	0.00	355	0.56	329	1	0.00	432	0.68	380	2	0.00	546	0.86
251	2	0.00	357	0.56	330	2	0.00	434	0.69	381	4	0.01	550	0.87
252	2	0.00	359	0.57	331	1	0.00	435	0.69	382	3	0.00	553	0.88
254	1	0.00	360	0.57	333	2	0.00	437	0.69	383	3	0.00	556	0.88
255	3	0.00	363	0.57	334	3	0.00	440	0.70	384	1	0.00	557	0.88
259	1	0.00	364	0.58	335	1	0.00	441	0.70	385	7	0.01	564	0.89
260	1	0.00	365	0.58	336	4	0.01	445	0.70	386	2	0.00	566	0.90
263	1	0.00	366	0.58	337	2	0.00	447	0.71	387	3	0.00	569	0.90
264	1	0.00	367	0.58	338	5	0.01	452	0.72	388	5	0.01	574	0.91
266	1	0.00	368	0.58	340	2	0.00	454	0.72	389	7	0.01	581	0.92
267	1	0.00	369	0.58	341	1	0.00	455	0.72	390	5	0.01	586	0.93
268	2	0.00	371	0.59	342	1	0.00	456	0.72	391	1	0.00	587	0.93
270	1	0.00	372	0.59	344	2	0.00	458	0.72	392	5	0.01	592	0.94
272	1	0.00	373	0.59	345	1	0.00	459	0.73	393	3	0.00	595	0.94
273	1	0.00	374	0.59	346	1	0.00	460	0.73	394	6	0.01	601	0.95
276	2	0.00	376	0.60	347	5	0.01	465	0.74	395	8	0.01	609	0.96
277	1	0.00	377	0.60	348	5	0.01	470	0.74	396	3	0.00	612	0.97
278	1	0.00	378	0.60	349	2	0.00	472	0.75	397	4	0.01	616	0.97
279	2	0.00	380	0.60	350	1	0.00	473	0.75	398	4	0.01	620	0.98
282	1	0.00	381	0.60	351	1	0.00	474	0.75	399	4	0.01	624	0.99
288	1	0.00	382	0.60	352	1	0.00	475	0.75	400	9	0.01	633	1.00
289	1	0.00	383	0.61	353	2	0.00	477	0.75	401	9	0.01	642	1.02
290	2	0.00	385	0.61	354	1	0.00	478	0.76	402	5	0.01	647	1.02
291	1	0.00	386	0.61	355	3	0.00	481	0.76	403	9	0.01	656	1.04
294	2	0.00	388	0.61	356	1	0.00	482	0.76	404	12	0.02	668	1.06
295	4	0.01	392	0.62	357	3	0.00	485	0.77	405	8	0.01	676	1.07

Table 169. Scale Score Distribution, Reading Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
406	7	0.01	683	1.08	453	44	0.07	1471	2.33	500	65	0.10	3564	5.64
407	4	0.01	687	1.09	454	23	0.04	1494	2.36	501	83	0.13	3647	5.77
408	6	0.01	693	1.10	455	29	0.05	1523	2.41	502	67	0.11	3714	5.88
409	9	0.01	702	1.11	456	28	0.04	1551	2.45	503	72	0.11	3786	5.99
410	9	0.01	711	1.13	457	25	0.04	1576	2.49	504	62	0.10	3848	6.09
411	9	0.01	720	1.14	458	26	0.04	1602	2.54	505	86	0.14	3934	6.23
412	9	0.01	729	1.15	459	22	0.03	1624	2.57	506	65	0.10	3999	6.33
413	14	0.02	743	1.18	460	34	0.05	1658	2.62	507	78	0.12	4077	6.45
414	16	0.03	759	1.20	461	34	0.05	1692	2.68	508	71	0.11	4148	6.56
415	10	0.02	769	1.22	462	29	0.05	1721	2.72	509	83	0.13	4231	6.70
416	10	0.02	779	1.23	463	21	0.03	1742	2.76	510	88	0.14	4319	6.84
417	11	0.02	790	1.25	464	40	0.06	1782	2.82	511	87	0.14	4406	6.97
418	19	0.03	809	1.28	465	30	0.05	1812	2.87	512	88	0.14	4494	7.11
419	11	0.02	820	1.30	466	34	0.05	1846	2.92	513	94	0.15	4588	7.26
420	15	0.02	835	1.32	467	30	0.05	1876	2.97	514	100	0.16	4688	7.42
421	8	0.01	843	1.33	468	40	0.06	1916	3.03	515	104	0.16	4792	7.58
422	12	0.02	855	1.35	469	36	0.06	1952	3.09	516	85	0.13	4877	7.72
423	16	0.03	871	1.38	470	38	0.06	1990	3.15	517	106	0.17	4983	7.89
424	16	0.03	887	1.40	471	42	0.07	2032	3.22	518	93	0.15	5076	8.03
425	12	0.02	899	1.42	472	34	0.05	2066	3.27	519	92	0.15	5168	8.18
426	10	0.02	909	1.44	473	39	0.06	2105	3.33	520	90	0.14	5258	8.32
427	19	0.03	928	1.47	474	37	0.06	2142	3.39	521	105	0.17	5363	8.49
428	13	0.02	941	1.49	475	45	0.07	2187	3.46	522	113	0.18	5476	8.67
429	17	0.03	958	1.52	476	35	0.06	2222	3.52	523	128	0.20	5604	8.87
430	15	0.02	973	1.54	477	36	0.06	2258	3.57	524	91	0.14	5695	9.01
431	24	0.04	997	1.58	478	51	0.08	2309	3.65	525	127	0.20	5822	9.21
432	19	0.03	1016	1.61	479	37	0.06	2346	3.71	526	123	0.19	5945	9.41
433	20	0.03	1036	1.64	480	56	0.09	2402	3.80	527	112	0.18	6057	9.59
434	12	0.02	1048	1.66	481	44	0.07	2446	3.87	528	147	0.23	6204	9.82
435	12	0.02	1060	1.68	482	42	0.07	2488	3.94	529	114	0.18	6318	10.00
436	18	0.03	1078	1.71	483	42	0.07	2530	4.00	530	129	0.20	6447	10.20
437	13	0.02	1091	1.73	484	44	0.07	2574	4.07	531	102	0.16	6549	10.36
438	13	0.02	1104	1.75	485	43	0.07	2617	4.14	532	111	0.18	6660	10.54
439	16	0.03	1120	1.77	486	58	0.09	2675	4.23	533	124	0.20	6784	10.74
440	26	0.04	1146	1.81	487	55	0.09	2730	4.32	534	135	0.21	6919	10.95
441	19	0.03	1165	1.84	488	57	0.09	2787	4.41	535	111	0.18	7030	11.13
442	26	0.04	1191	1.88	489	60	0.09	2847	4.51	536	126	0.20	7156	11.32
443	20	0.03	1211	1.92	490	69	0.11	2916	4.61	537	138	0.22	7294	11.54
444	20	0.03	1231	1.95	491	60	0.09	2976	4.71	538	127	0.20	7421	11.74
445	26	0.04	1257	1.99	492	64	0.10	3040	4.81	539	154	0.24	7575	11.99
446	28	0.04	1285	2.03	493	58	0.09	3098	4.90	540	148	0.23	7723	12.22
447	25	0.04	1310	2.07	494	59	0.09	3157	5.00	541	149	0.24	7872	12.46
448	15	0.02	1325	2.10	495	67	0.11	3224	5.10	542	136	0.22	8008	12.67
449	23	0.04	1348	2.13	496	83	0.13	3307	5.23	543	150	0.24	8158	12.91
450	29	0.05	1377	2.18	497	58	0.09	3365	5.33	544	145	0.23	8303	13.14
451	22	0.03	1399	2.21	498	72	0.11	3437	5.44	545	175	0.28	8478	13.42
452	28	0.04	1427	2.26	499	62	0.10	3499	5.54	546	184	0.29	8662	13.71

Table 169. Scale Score Distribution, Reading Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
547	154	0.24	8816	13.95	594	339	0.54	20932	33.13	641	445	0.70	41224	65.24
548	167	0.26	8983	14.22	595	373	0.59	21305	33.72	642	454	0.72	41678	65.96
549	164	0.26	9147	14.48	596	358	0.57	21663	34.28	643	477	0.75	42155	66.71
550	184	0.29	9331	14.77	597	391	0.62	22054	34.90	644	443	0.70	42598	67.41
551	177	0.28	9508	15.05	598	355	0.56	22409	35.46	645	437	0.69	43035	68.11
552	180	0.28	9688	15.33	599	396	0.63	22805	36.09	646	441	0.70	43476	68.80
553	172	0.27	9860	15.60	600	404	0.64	23209	36.73	647	418	0.66	43894	69.47
554	186	0.29	10046	15.90	601	407	0.64	23616	37.37	648	455	0.72	44349	70.19
555	211	0.33	10257	16.23	602	366	0.58	23982	37.95	649	428	0.68	44777	70.86
556	213	0.34	10470	16.57	603	425	0.67	24407	38.63	650	429	0.68	45206	71.54
557	197	0.31	10667	16.88	604	388	0.61	24795	39.24	651	427	0.68	45633	72.22
558	202	0.32	10869	17.20	605	429	0.68	25224	39.92	652	396	0.63	46029	72.84
559	204	0.32	11073	17.52	606	417	0.66	25641	40.58	653	414	0.66	46443	73.50
560	212	0.34	11285	17.86	607	413	0.65	26054	41.23	654	383	0.61	46826	74.11
561	228	0.36	11513	18.22	608	422	0.67	26476	41.90	655	461	0.73	47287	74.84
562	216	0.34	11729	18.56	609	427	0.68	26903	42.58	656	401	0.63	47688	75.47
563	207	0.33	11936	18.89	610	416	0.66	27319	43.23	657	382	0.60	48070	76.07
564	237	0.38	12173	19.26	611	422	0.67	27741	43.90	658	397	0.63	48467	76.70
565	232	0.37	12405	19.63	612	417	0.66	28158	44.56	659	383	0.61	48850	77.31
566	236	0.37	12641	20.01	613	452	0.72	28610	45.28	660	367	0.58	49217	77.89
567	249	0.39	12890	20.40	614	407	0.64	29017	45.92	661	373	0.59	49590	78.48
568	264	0.42	13154	20.82	615	470	0.74	29487	46.67	662	368	0.58	49958	79.06
569	235	0.37	13389	21.19	616	441	0.70	29928	47.36	663	355	0.56	50313	79.62
570	218	0.35	13607	21.53	617	429	0.68	30357	48.04	664	376	0.60	50689	80.22
571	247	0.39	13854	21.93	618	465	0.74	30822	48.78	665	375	0.59	51064	80.81
572	238	0.38	14092	22.30	619	436	0.69	31258	49.47	666	339	0.54	51403	81.35
573	243	0.38	14335	22.69	620	442	0.70	31700	50.17	667	345	0.55	51748	81.90
574	245	0.39	14580	23.07	621	449	0.71	32149	50.88	668	332	0.53	52080	82.42
575	278	0.44	14858	23.51	622	453	0.72	32602	51.60	669	308	0.49	52388	82.91
576	285	0.45	15143	23.96	623	448	0.71	33050	52.30	670	321	0.51	52709	83.42
577	310	0.49	15453	24.46	624	452	0.72	33502	53.02	671	331	0.52	53040	83.94
578	299	0.47	15752	24.93	625	484	0.77	33986	53.79	672	249	0.39	53289	84.33
579	257	0.41	16009	25.34	626	450	0.71	34436	54.50	673	312	0.49	53601	84.83
580	298	0.47	16307	25.81	627	475	0.75	34911	55.25	674	322	0.51	53923	85.34
581	322	0.51	16629	26.32	628	475	0.75	35386	56.00	675	360	0.57	54283	85.91
582	327	0.52	16956	26.83	629	463	0.73	35849	56.73	676	297	0.47	54580	86.38
583	280	0.44	17236	27.28	630	443	0.70	36292	57.43	677	281	0.44	54861	86.82
584	303	0.48	17539	27.76	631	437	0.69	36729	58.13	678	265	0.42	55126	87.24
585	340	0.54	17879	28.29	632	439	0.69	37168	58.82	679	252	0.40	55378	87.64
586	347	0.55	18226	28.84	633	476	0.75	37644	59.57	680	267	0.42	55645	88.06
587	328	0.52	18554	29.36	634	433	0.69	38077	60.26	681	273	0.43	55918	88.49
588	339	0.54	18893	29.90	635	399	0.63	38476	60.89	682	227	0.36	56145	88.85
589	330	0.52	19223	30.42	636	462	0.73	38938	61.62	683	231	0.37	56376	89.22
590	346	0.55	19569	30.97	637	423	0.67	39361	62.29	684	230	0.36	56606	89.58
591	322	0.51	19891	31.48	638	471	0.75	39832	63.04	685	238	0.38	56844	89.96
592	336	0.53	20227	32.01	639	461	0.73	40293	63.77	686	244	0.39	57088	90.35
593	366	0.58	20593	32.59	640	486	0.77	40779	64.54	687	242	0.38	57330	90.73

Table 169. Scale Score Distribution, Reading Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
688	216	0.34	57546	91.07	735	43	0.07	62560	99.01	783	3	0.00	63156	99.95
689	208	0.33	57754	91.40	736	34	0.05	62594	99.06	784	3	0.00	63159	99.95
690	228	0.36	57982	91.76	737	26	0.04	62620	99.10	785	1	0.00	63160	99.96
691	186	0.29	58168	92.06	738	24	0.04	62644	99.14	786	2	0.00	63162	99.96
692	217	0.34	58385	92.40	739	25	0.04	62669	99.18	787	2	0.00	63164	99.96
693	189	0.30	58574	92.70	740	28	0.04	62697	99.22	788	2	0.00	63166	99.97
694	190	0.30	58764	93.00	741	22	0.03	62719	99.26	790	2	0.00	63168	99.97
695	179	0.28	58943	93.28	742	27	0.04	62746	99.30	791	2	0.00	63170	99.97
696	176	0.28	59119	93.56	743	22	0.03	62768	99.34	793	2	0.00	63172	99.97
697	166	0.26	59285	93.82	744	31	0.05	62799	99.38	794	1	0.00	63173	99.98
698	173	0.27	59458	94.10	745	23	0.04	62822	99.42	797	3	0.00	63176	99.98
699	147	0.23	59605	94.33	746	19	0.03	62841	99.45	798	1	0.00	63177	99.98
700	158	0.25	59763	94.58	747	21	0.03	62862	99.48	801	1	0.00	63178	99.98
701	131	0.21	59894	94.79	748	23	0.04	62885	99.52	802	1	0.00	63179	99.99
702	135	0.21	60029	95.00	749	21	0.03	62906	99.55	807	1	0.00	63180	99.99
703	129	0.20	60158	95.20	750	15	0.02	62921	99.58	813	1	0.00	63181	99.99
704	122	0.19	60280	95.40	751	16	0.03	62937	99.60	821	1	0.00	63182	99.99
705	112	0.18	60392	95.58	752	12	0.02	62949	99.62	823	1	0.00	63183	99.99
706	122	0.19	60514	95.77	753	23	0.04	62972	99.66	825	1	0.00	63184	99.99
707	116	0.18	60630	95.95	754	12	0.02	62984	99.68	826	1	0.00	63185	100.00
708	119	0.19	60749	96.14	755	13	0.02	62997	99.70	835	1	0.00	63186	100.00
709	122	0.19	60871	96.33	756	22	0.03	63019	99.73	845	1	0.00	63187	100.00
710	111	0.18	60982	96.51	757	16	0.03	63035	99.76	852	1	0.00	63188	100.00
711	96	0.15	61078	96.66	758	10	0.02	63045	99.77					
712	100	0.16	61178	96.82	759	9	0.01	63054	99.79					
713	101	0.16	61279	96.98	760	10	0.02	63064	99.80					
714	92	0.15	61371	97.12	761	9	0.01	63073	99.82					
715	74	0.12	61445	97.24	762	11	0.02	63084	99.84					
716	71	0.11	61516	97.35	763	3	0.00	63087	99.84					
717	79	0.13	61595	97.48	764	6	0.01	63093	99.85					
718	73	0.12	61668	97.59	765	4	0.01	63097	99.86					
719	78	0.12	61746	97.72	766	3	0.00	63100	99.86					
720	67	0.11	61813	97.82	767	8	0.01	63108	99.87					
721	63	0.10	61876	97.92	768	6	0.01	63114	99.88					
722	53	0.08	61929	98.01	769	5	0.01	63119	99.89					
723	68	0.11	61997	98.12	770	8	0.01	63127	99.90					
724	64	0.10	62061	98.22	771	2	0.00	63129	99.91					
725	53	0.08	62114	98.30	772	1	0.00	63130	99.91					
726	55	0.09	62169	98.39	773	4	0.01	63134	99.91					
727	47	0.07	62216	98.46	774	3	0.00	63137	99.92					
728	56	0.09	62272	98.55	775	2	0.00	63139	99.92					
729	47	0.07	62319	98.62	776	6	0.01	63145	99.93					
730	44	0.07	62363	98.69	777	2	0.00	63147	99.94					
731	39	0.06	62402	98.76	778	1	0.00	63148	99.94					
732	34	0.05	62436	98.81	779	3	0.00	63151	99.94					
733	45	0.07	62481	98.88	781	1	0.00	63152	99.94					
734	36	0.06	62517	98.94	782	1	0.00	63153	99.94					

Table 170. Scale Score Distribution, Writing Grade 5

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
220	20	0.03	20	0.03	323	1	0.00	102	0.16	370	34	0.05	541	0.86
224	1	0.00	21	0.03	324	1	0.00	103	0.16	371	26	0.04	567	0.90
229	2	0.00	23	0.04	325	6	0.01	109	0.17	372	32	0.05	599	0.95
230	1	0.00	24	0.04	326	2	0.00	111	0.18	373	28	0.04	627	1.00
231	2	0.00	26	0.04	327	3	0.00	114	0.18	374	22	0.03	649	1.03
234	1	0.00	27	0.04	328	8	0.01	122	0.19	375	23	0.04	672	1.07
236	3	0.00	30	0.05	329	3	0.00	125	0.20	376	38	0.06	710	1.13
239	2	0.00	32	0.05	330	3	0.00	128	0.20	377	22	0.03	732	1.16
241	1	0.00	33	0.05	331	5	0.01	133	0.21	378	39	0.06	771	1.22
242	1	0.00	34	0.05	332	5	0.01	138	0.22	379	27	0.04	798	1.27
248	1	0.00	35	0.06	333	5	0.01	143	0.23	380	33	0.05	831	1.32
250	1	0.00	36	0.06	334	4	0.01	147	0.23	381	30	0.05	861	1.37
254	2	0.00	38	0.06	335	6	0.01	153	0.24	382	33	0.05	894	1.42
260	1	0.00	39	0.06	336	6	0.01	159	0.25	383	25	0.04	919	1.46
261	1	0.00	40	0.06	337	1	0.00	160	0.25	384	37	0.06	956	1.52
264	1	0.00	41	0.07	338	5	0.01	165	0.26	385	39	0.06	995	1.58
267	3	0.00	44	0.07	339	7	0.01	172	0.27	386	31	0.05	1026	1.63
268	2	0.00	46	0.07	340	4	0.01	176	0.28	387	29	0.05	1055	1.67
269	2	0.00	48	0.08	341	9	0.01	185	0.29	388	39	0.06	1094	1.74
271	1	0.00	49	0.08	342	4	0.01	189	0.30	389	38	0.06	1132	1.80
283	1	0.00	50	0.08	343	5	0.01	194	0.31	390	45	0.07	1177	1.87
285	2	0.00	52	0.08	344	6	0.01	200	0.32	391	45	0.07	1222	1.94
286	1	0.00	53	0.08	345	6	0.01	206	0.33	392	44	0.07	1266	2.01
287	2	0.00	55	0.09	346	6	0.01	212	0.34	393	42	0.07	1308	2.08
288	1	0.00	56	0.09	347	4	0.01	216	0.34	394	41	0.07	1349	2.14
289	3	0.00	59	0.09	348	15	0.02	231	0.37	395	49	0.08	1398	2.22
293	1	0.00	60	0.10	349	11	0.02	242	0.38	396	48	0.08	1446	2.30
294	1	0.00	61	0.10	350	9	0.01	251	0.40	397	60	0.10	1506	2.39
301	3	0.00	64	0.10	351	9	0.01	260	0.41	398	64	0.10	1570	2.49
302	1	0.00	65	0.10	352	16	0.03	276	0.44	399	64	0.10	1634	2.59
304	4	0.01	69	0.11	353	15	0.02	291	0.46	400	62	0.10	1696	2.69
305	2	0.00	71	0.11	354	15	0.02	306	0.49	401	58	0.09	1754	2.78
307	1	0.00	72	0.11	355	10	0.02	316	0.50	402	59	0.09	1813	2.88
308	1	0.00	73	0.12	356	10	0.02	326	0.52	403	66	0.10	1879	2.98
309	2	0.00	75	0.12	357	12	0.02	338	0.54	404	83	0.13	1962	3.11
310	1	0.00	76	0.12	358	11	0.02	349	0.55	405	90	0.14	2052	3.26
311	1	0.00	77	0.12	359	9	0.01	358	0.57	406	64	0.10	2116	3.36
312	2	0.00	79	0.13	360	14	0.02	372	0.59	407	70	0.11	2186	3.47
314	1	0.00	80	0.13	361	11	0.02	383	0.61	408	58	0.09	2244	3.56
315	3	0.00	83	0.13	362	20	0.03	403	0.64	409	102	0.16	2346	3.72
316	1	0.00	84	0.13	363	15	0.02	418	0.66	410	86	0.14	2432	3.86
317	3	0.00	87	0.14	364	15	0.02	433	0.69	411	105	0.17	2537	4.03
318	5	0.01	92	0.15	365	15	0.02	448	0.71	412	85	0.13	2622	4.16
319	2	0.00	94	0.15	366	16	0.03	464	0.74	413	94	0.15	2716	4.31
320	2	0.00	96	0.15	367	15	0.02	479	0.76	414	94	0.15	2810	4.46
321	2	0.00	98	0.16	368	12	0.02	491	0.78	415	107	0.17	2917	4.63
322	3	0.00	101	0.16	369	16	0.03	507	0.80	416	108	0.17	3025	4.80

Table 170. Scale Score Distribution, Writing Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
417	119	0.19	3144	4.99	464	309	0.49	13019	20.67	511	528	0.84	33731	53.55
418	112	0.18	3256	5.17	465	368	0.58	13387	21.25	512	452	0.72	34183	54.26
419	128	0.20	3384	5.37	466	331	0.53	13718	21.78	513	496	0.79	34679	55.05
420	118	0.19	3502	5.56	467	330	0.52	14048	22.30	514	496	0.79	35175	55.84
421	115	0.18	3617	5.74	468	351	0.56	14399	22.86	515	477	0.76	35652	56.59
422	144	0.23	3761	5.97	469	326	0.52	14725	23.37	516	525	0.83	36177	57.43
423	130	0.21	3891	6.18	470	352	0.56	15077	23.93	517	505	0.80	36682	58.23
424	136	0.22	4027	6.39	471	370	0.59	15447	24.52	518	511	0.81	37193	59.04
425	134	0.21	4161	6.61	472	363	0.58	15810	25.10	519	531	0.84	37724	59.88
426	160	0.25	4321	6.86	473	396	0.63	16206	25.73	520	488	0.77	38212	60.66
427	149	0.24	4470	7.10	474	390	0.62	16596	26.34	521	495	0.79	38707	61.44
428	174	0.28	4644	7.37	475	397	0.63	16993	26.98	522	452	0.72	39159	62.16
429	142	0.23	4786	7.60	476	402	0.64	17395	27.61	523	505	0.80	39664	62.96
430	169	0.27	4955	7.87	477	364	0.58	17759	28.19	524	495	0.79	40159	63.75
431	150	0.24	5105	8.10	478	392	0.62	18151	28.81	525	519	0.82	40678	64.57
432	171	0.27	5276	8.38	479	395	0.63	18546	29.44	526	510	0.81	41188	65.38
433	185	0.29	5461	8.67	480	402	0.64	18948	30.08	527	479	0.76	41667	66.14
434	170	0.27	5631	8.94	481	424	0.67	19372	30.75	528	471	0.75	42138	66.89
435	159	0.25	5790	9.19	482	379	0.60	19751	31.35	529	471	0.75	42609	67.64
436	194	0.31	5984	9.50	483	420	0.67	20171	32.02	530	458	0.73	43067	68.37
437	198	0.31	6182	9.81	484	450	0.71	20621	32.73	531	463	0.73	43530	69.10
438	161	0.26	6343	10.07	485	397	0.63	21018	33.36	532	446	0.71	43976	69.81
439	208	0.33	6551	10.40	486	469	0.74	21487	34.11	533	431	0.68	44407	70.49
440	177	0.28	6728	10.68	487	423	0.67	21910	34.78	534	451	0.72	44858	71.21
441	196	0.31	6924	10.99	488	463	0.73	22373	35.52	535	440	0.70	45298	71.91
442	215	0.34	7139	11.33	489	492	0.78	22865	36.30	536	402	0.64	45700	72.55
443	209	0.33	7348	11.66	490	473	0.75	23338	37.05	537	462	0.73	46162	73.28
444	226	0.36	7574	12.02	491	467	0.74	23805	37.79	538	397	0.63	46559	73.91
445	199	0.32	7773	12.34	492	454	0.72	24259	38.51	539	395	0.63	46954	74.54
446	249	0.40	8022	12.73	493	484	0.77	24743	39.28	540	379	0.60	47333	75.14
447	226	0.36	8248	13.09	494	493	0.78	25236	40.06	541	425	0.67	47758	75.81
448	243	0.39	8491	13.48	495	491	0.78	25727	40.84	542	417	0.66	48175	76.47
449	241	0.38	8732	13.86	496	488	0.77	26215	41.61	543	378	0.60	48553	77.07
450	242	0.38	8974	14.25	497	484	0.77	26699	42.38	544	385	0.61	48938	77.69
451	262	0.42	9236	14.66	498	491	0.78	27190	43.16	545	390	0.62	49328	78.30
452	247	0.39	9483	15.05	499	473	0.75	27663	43.91	546	353	0.56	49681	78.86
453	268	0.43	9751	15.48	500	510	0.81	28173	44.72	547	371	0.59	50052	79.45
454	284	0.45	10035	15.93	501	455	0.72	28628	45.44	548	326	0.52	50378	79.97
455	285	0.45	10320	16.38	502	510	0.81	29138	46.25	549	327	0.52	50705	80.49
456	250	0.40	10570	16.78	503	489	0.78	29627	47.03	550	336	0.53	51041	81.02
457	300	0.48	10870	17.26	504	497	0.79	30124	47.82	551	347	0.55	51388	81.57
458	286	0.45	11156	17.71	505	461	0.73	30585	48.55	552	296	0.47	51684	82.04
459	304	0.48	11460	18.19	506	509	0.81	31094	49.36	553	342	0.54	52026	82.59
460	298	0.47	11758	18.66	507	517	0.82	31611	50.18	554	307	0.49	52333	83.07
461	320	0.51	12078	19.17	508	559	0.89	32170	51.07	555	266	0.42	52599	83.50
462	306	0.49	12384	19.66	509	498	0.79	32668	51.86	556	300	0.48	52899	83.97
463	326	0.52	12710	20.18	510	535	0.85	33203	52.71	557	282	0.45	53181	84.42

Table 170. Scale Score Distribution, Writing Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
558	256	0.41	53437	84.83	605	67	0.11	60829	96.56	652	14	0.02	62527	99.26
559	286	0.45	53723	85.28	606	70	0.11	60899	96.67	653	8	0.01	62535	99.27
560	268	0.43	53991	85.71	607	69	0.11	60968	96.78	654	7	0.01	62542	99.28
561	258	0.41	54249	86.12	608	67	0.11	61035	96.89	655	10	0.02	62552	99.30
562	253	0.40	54502	86.52	609	68	0.11	61103	97.00	656	18	0.03	62570	99.33
563	236	0.37	54738	86.89	610	55	0.09	61158	97.08	657	25	0.04	62595	99.37
564	218	0.35	54956	87.24	611	52	0.08	61210	97.17	658	14	0.02	62609	99.39
565	254	0.40	55210	87.64	612	62	0.10	61272	97.26	659	11	0.02	62620	99.40
566	232	0.37	55442	88.01	613	72	0.11	61344	97.38	660	11	0.02	62631	99.42
567	229	0.36	55671	88.37	614	44	0.07	61388	97.45	661	7	0.01	62638	99.43
568	232	0.37	55903	88.74	615	76	0.12	61464	97.57	662	10	0.02	62648	99.45
569	192	0.30	56095	89.05	616	66	0.10	61530	97.67	663	27	0.04	62675	99.49
570	199	0.32	56294	89.36	617	67	0.11	61597	97.78	664	17	0.03	62692	99.52
571	210	0.33	56504	89.70	618	63	0.10	61660	97.88	665	17	0.03	62709	99.55
572	215	0.34	56719	90.04	619	35	0.06	61695	97.94	666	11	0.02	62720	99.56
573	190	0.30	56909	90.34	620	39	0.06	61734	98.00	667	6	0.01	62726	99.57
574	205	0.33	57114	90.66	621	44	0.07	61778	98.07	668	4	0.01	62730	99.58
575	168	0.27	57282	90.93	622	32	0.05	61810	98.12	671	6	0.01	62736	99.59
576	174	0.28	57456	91.21	623	22	0.03	61832	98.15	672	8	0.01	62744	99.60
577	170	0.27	57626	91.48	624	31	0.05	61863	98.20	673	6	0.01	62750	99.61
578	165	0.26	57791	91.74	625	41	0.07	61904	98.27	674	4	0.01	62754	99.62
579	165	0.26	57956	92.00	626	34	0.05	61938	98.32	675	2	0.00	62756	99.62
580	147	0.23	58103	92.23	627	25	0.04	61963	98.36	676	3	0.00	62759	99.63
581	163	0.26	58266	92.49	628	23	0.04	61986	98.40	677	4	0.01	62763	99.63
582	172	0.27	58438	92.77	629	23	0.04	62009	98.43	679	2	0.00	62765	99.63
583	131	0.21	58569	92.97	630	26	0.04	62035	98.48	680	1	0.00	62766	99.64
584	114	0.18	58683	93.16	631	61	0.10	62096	98.57	681	1	0.00	62767	99.64
585	113	0.18	58796	93.33	632	17	0.03	62113	98.60	682	1	0.00	62768	99.64
586	114	0.18	58910	93.52	633	27	0.04	62140	98.64	686	2	0.00	62770	99.64
587	133	0.21	59043	93.73	634	20	0.03	62160	98.67	687	6	0.01	62776	99.65
588	118	0.19	59161	93.91	635	35	0.06	62195	98.73	688	3	0.00	62779	99.66
589	129	0.20	59290	94.12	636	71	0.11	62266	98.84	689	10	0.02	62789	99.67
590	133	0.21	59423	94.33	637	44	0.07	62310	98.91	690	8	0.01	62797	99.69
591	138	0.22	59561	94.55	638	24	0.04	62334	98.95	691	19	0.03	62816	99.72
592	114	0.18	59675	94.73	639	15	0.02	62349	98.97	693	2	0.00	62818	99.72
593	97	0.15	59772	94.88	640	12	0.02	62361	98.99	694	1	0.00	62819	99.72
594	114	0.18	59886	95.06	641	23	0.04	62384	99.03	695	6	0.01	62825	99.73
595	89	0.14	59975	95.21	642	15	0.02	62399	99.05	696	3	0.00	62828	99.73
596	91	0.14	60066	95.35	643	11	0.02	62410	99.07	699	2	0.00	62830	99.74
597	99	0.16	60165	95.51	644	11	0.02	62421	99.09	700	8	0.01	62838	99.75
598	86	0.14	60251	95.64	645	8	0.01	62429	99.10	701	14	0.02	62852	99.77
599	89	0.14	60340	95.79	646	11	0.02	62440	99.12	702	10	0.02	62862	99.79
600	95	0.15	60435	95.94	647	7	0.01	62447	99.13	703	6	0.01	62868	99.80
601	82	0.13	60517	96.07	648	14	0.02	62461	99.15	704	10	0.02	62878	99.81
602	81	0.13	60598	96.19	649	16	0.03	62477	99.18	707	1	0.00	62879	99.82
603	70	0.11	60668	96.31	650	14	0.02	62491	99.20	709	13	0.02	62892	99.84
604	94	0.15	60762	96.46	651	22	0.03	62513	99.23	714	1	0.00	62893	99.84

Table 170. Scale Score Distribution, Writing Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
715	28	0.04	62921	99.88
717	18	0.03	62939	99.91
719	6	0.01	62945	99.92
780	50	0.08	62995	100.00

Table 171. Scale Score Distribution, Mathematics Grade 5

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
220	90	0.14	90	0.14	277	5	0.01	207	0.33	324	7	0.01	578	0.91
221	1	0.00	91	0.14	278	6	0.01	213	0.34	325	12	0.02	590	0.93
223	2	0.00	93	0.15	279	9	0.01	222	0.35	326	11	0.02	601	0.95
224	2	0.00	95	0.15	280	6	0.01	228	0.36	327	13	0.02	614	0.97
225	2	0.00	97	0.15	281	4	0.01	232	0.37	328	18	0.03	632	1.00
226	2	0.00	99	0.16	282	3	0.00	235	0.37	329	10	0.02	642	1.01
227	1	0.00	100	0.16	283	5	0.01	240	0.38	330	14	0.02	656	1.04
229	1	0.00	101	0.16	284	3	0.00	243	0.38	331	16	0.03	672	1.06
230	1	0.00	102	0.16	285	3	0.00	246	0.39	332	13	0.02	685	1.08
231	1	0.00	103	0.16	286	5	0.01	251	0.40	333	14	0.02	699	1.10
232	1	0.00	104	0.16	287	3	0.00	254	0.40	334	13	0.02	712	1.13
234	2	0.00	106	0.17	288	7	0.01	261	0.41	335	22	0.03	734	1.16
235	1	0.00	107	0.17	289	6	0.01	267	0.42	336	15	0.02	749	1.18
236	3	0.00	110	0.17	290	3	0.00	270	0.43	337	16	0.03	765	1.21
238	2	0.00	112	0.18	291	4	0.01	274	0.43	324	7	0.01	578	0.91
241	3	0.00	115	0.18	292	8	0.01	282	0.45	325	12	0.02	590	0.93
242	2	0.00	117	0.18	293	6	0.01	288	0.46	326	11	0.02	601	0.95
244	4	0.01	121	0.19	294	6	0.01	294	0.46	327	13	0.02	614	0.97
245	1	0.00	122	0.19	295	5	0.01	299	0.47	328	18	0.03	632	1.00
247	1	0.00	123	0.19	296	8	0.01	307	0.49	329	10	0.02	642	1.01
248	3	0.00	126	0.20	297	8	0.01	315	0.50	330	14	0.02	656	1.04
249	2	0.00	128	0.20	298	7	0.01	322	0.51	331	16	0.03	672	1.06
250	3	0.00	131	0.21	299	8	0.01	330	0.52	332	13	0.02	685	1.08
251	3	0.00	134	0.21	300	4	0.01	334	0.53	333	14	0.02	699	1.10
252	2	0.00	136	0.21	301	4	0.01	338	0.53	334	13	0.02	712	1.13
253	3	0.00	139	0.22	302	9	0.01	347	0.55	335	22	0.03	734	1.16
254	2	0.00	141	0.22	303	12	0.02	359	0.57	336	15	0.02	749	1.18
255	1	0.00	142	0.22	304	10	0.02	369	0.58	337	16	0.03	765	1.21
256	5	0.01	147	0.23	305	6	0.01	375	0.59	338	17	0.03	782	1.24
257	3	0.00	150	0.24	306	5	0.01	380	0.60	339	15	0.02	797	1.26
258	3	0.00	153	0.24	307	10	0.02	390	0.62	340	18	0.03	815	1.29
261	3	0.00	156	0.25	308	8	0.01	398	0.63	341	25	0.04	840	1.33
262	1	0.00	157	0.25	309	10	0.02	408	0.64	342	23	0.04	863	1.36
263	2	0.00	159	0.25	310	10	0.02	418	0.66	343	22	0.03	885	1.40
264	2	0.00	161	0.25	311	9	0.01	427	0.67	344	17	0.03	902	1.43
265	2	0.00	163	0.26	312	12	0.02	439	0.69	345	24	0.04	926	1.46
266	7	0.01	170	0.27	313	9	0.01	448	0.71	346	20	0.03	946	1.50
267	3	0.00	173	0.27	314	8	0.01	456	0.72	347	26	0.04	972	1.54
268	3	0.00	176	0.28	315	8	0.01	464	0.73	348	25	0.04	997	1.58
269	2	0.00	178	0.28	316	11	0.02	475	0.75	349	20	0.03	1017	1.61
270	5	0.01	183	0.29	317	10	0.02	485	0.77	350	40	0.06	1057	1.67
271	3	0.00	186	0.29	318	16	0.03	501	0.79	351	19	0.03	1076	1.70
272	4	0.01	190	0.30	319	6	0.01	507	0.80	352	30	0.05	1106	1.75
273	2	0.00	192	0.30	320	15	0.02	522	0.83	353	24	0.04	1130	1.79
274	3	0.00	195	0.31	321	16	0.03	538	0.85	354	25	0.04	1155	1.83
275	4	0.01	199	0.31	322	16	0.03	554	0.88	355	32	0.05	1187	1.88
276	3	0.00	202	0.32	323	17	0.03	571	0.90	356	20	0.03	1207	1.91

Table 171. Scale Score Distribution, Mathematics Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
357	33	0.05	1240	1.96	404	105	0.17	3945	6.24	451	200	0.32	10670	16.87
358	32	0.05	1272	2.01	405	81	0.13	4026	6.36	452	202	0.32	10872	17.19
359	31	0.05	1303	2.06	406	97	0.15	4123	6.52	453	225	0.36	11097	17.54
360	28	0.04	1331	2.10	407	91	0.14	4214	6.66	454	213	0.34	11310	17.88
361	27	0.04	1358	2.15	408	108	0.17	4322	6.83	455	219	0.35	11529	18.22
362	32	0.05	1390	2.20	409	101	0.16	4423	6.99	456	187	0.30	11716	18.52
363	43	0.07	1433	2.27	410	119	0.19	4542	7.18	457	226	0.36	11942	18.88
364	34	0.05	1467	2.32	411	105	0.17	4647	7.35	458	238	0.38	12180	19.25
365	40	0.06	1507	2.38	412	110	0.17	4757	7.52	459	238	0.38	12418	19.63
366	39	0.06	1546	2.44	413	112	0.18	4869	7.70	460	243	0.38	12661	20.01
367	30	0.05	1576	2.49	414	116	0.18	4985	7.88	461	249	0.39	12910	20.41
368	39	0.06	1615	2.55	415	113	0.18	5098	8.06	462	256	0.40	13166	20.81
369	46	0.07	1661	2.63	416	142	0.22	5240	8.28	463	224	0.35	13390	21.17
370	44	0.07	1705	2.70	417	110	0.17	5350	8.46	464	265	0.42	13655	21.59
371	39	0.06	1744	2.76	418	97	0.15	5447	8.61	465	230	0.36	13885	21.95
372	40	0.06	1784	2.82	419	113	0.18	5560	8.79	466	258	0.41	14143	22.36
373	42	0.07	1826	2.89	420	129	0.20	5689	8.99	467	249	0.39	14392	22.75
374	40	0.06	1866	2.95	421	127	0.20	5816	9.19	468	252	0.40	14644	23.15
375	46	0.07	1912	3.02	422	118	0.19	5934	9.38	469	273	0.43	14917	23.58
376	62	0.10	1974	3.12	423	127	0.20	6061	9.58	470	241	0.38	15158	23.96
377	71	0.11	2045	3.23	424	142	0.22	6203	9.81	471	277	0.44	15435	24.40
378	55	0.09	2100	3.32	425	123	0.19	6326	10.00	472	250	0.40	15685	24.79
379	47	0.07	2147	3.39	426	134	0.21	6460	10.21	473	288	0.46	15973	25.25
380	52	0.08	2199	3.48	427	133	0.21	6593	10.42	474	246	0.39	16219	25.64
381	42	0.07	2241	3.54	428	138	0.22	6731	10.64	475	284	0.45	16503	26.09
382	58	0.09	2299	3.63	429	135	0.21	6866	10.85	476	292	0.46	16795	26.55
383	57	0.09	2356	3.72	430	159	0.25	7025	11.10	477	233	0.37	17028	26.92
384	56	0.09	2412	3.81	431	138	0.22	7163	11.32	478	310	0.49	17338	27.41
385	60	0.09	2472	3.91	432	133	0.21	7296	11.53	479	277	0.44	17615	27.84
386	81	0.13	2553	4.04	433	160	0.25	7456	11.79	480	294	0.46	17909	28.31
387	60	0.09	2613	4.13	434	149	0.24	7605	12.02	481	297	0.47	18206	28.78
388	64	0.10	2677	4.23	435	144	0.23	7749	12.25	482	276	0.44	18482	29.22
389	80	0.13	2757	4.36	436	146	0.23	7895	12.48	483	251	0.40	18733	29.61
390	61	0.10	2818	4.45	437	154	0.24	8049	12.72	484	315	0.50	19048	30.11
391	75	0.12	2893	4.57	438	179	0.28	8228	13.01	485	300	0.47	19348	30.58
392	76	0.12	2969	4.69	439	170	0.27	8398	13.28	486	297	0.47	19645	31.05
393	80	0.13	3049	4.82	440	164	0.26	8562	13.53	487	310	0.49	19955	31.54
394	85	0.13	3134	4.95	441	188	0.30	8750	13.83	488	282	0.45	20237	31.99
395	66	0.10	3200	5.06	442	178	0.28	8928	14.11	489	295	0.47	20532	32.46
396	82	0.13	3282	5.19	443	184	0.29	9112	14.40	490	320	0.51	20852	32.96
397	69	0.11	3351	5.30	444	170	0.27	9282	14.67	491	339	0.54	21191	33.50
398	76	0.12	3427	5.42	445	177	0.28	9459	14.95	492	326	0.52	21517	34.01
399	80	0.13	3507	5.54	446	194	0.31	9653	15.26	493	314	0.50	21831	34.51
400	81	0.13	3588	5.67	447	192	0.30	9845	15.56	494	322	0.51	22153	35.02
401	79	0.12	3667	5.80	448	195	0.31	10040	15.87	495	322	0.51	22475	35.53
402	94	0.15	3761	5.95	449	196	0.31	10236	16.18	496	324	0.51	22799	36.04
403	79	0.12	3840	6.07	450	234	0.37	10470	16.55	497	347	0.55	23146	36.59

Table 171. Scale Score Distribution, Mathematics Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
498	302	0.48	23448	37.07	545	340	0.54	39738	62.82	592	223	0.35	53346	84.33
499	323	0.51	23771	37.58	546	302	0.48	40040	63.29	593	205	0.32	53551	84.65
500	327	0.52	24098	38.09	547	306	0.48	40346	63.78	594	215	0.34	53766	84.99
501	334	0.53	24432	38.62	548	350	0.55	40696	64.33	595	208	0.33	53974	85.32
502	293	0.46	24725	39.08	549	335	0.53	41031	64.86	596	194	0.31	54168	85.63
503	316	0.50	25041	39.58	550	348	0.55	41379	65.41	597	177	0.28	54345	85.91
504	313	0.49	25354	40.08	551	316	0.50	41695	65.91	598	241	0.38	54586	86.29
505	308	0.49	25662	40.57	552	325	0.51	42020	66.42	599	198	0.31	54784	86.60
506	322	0.51	25984	41.07	553	334	0.53	42354	66.95	600	208	0.33	54992	86.93
507	343	0.54	26327	41.62	554	358	0.57	42712	67.52	601	210	0.33	55202	87.26
508	349	0.55	26676	42.17	555	343	0.54	43055	68.06	602	203	0.32	55405	87.58
509	358	0.57	27034	42.73	556	323	0.51	43378	68.57	603	195	0.31	55600	87.89
510	344	0.54	27378	43.28	557	321	0.51	43699	69.08	604	170	0.27	55770	88.16
511	327	0.52	27705	43.79	558	337	0.53	44036	69.61	605	186	0.29	55956	88.45
512	362	0.57	28067	44.37	559	318	0.50	44354	70.11	606	186	0.29	56142	88.75
513	367	0.58	28434	44.95	560	287	0.45	44641	70.57	607	154	0.24	56296	88.99
514	351	0.55	28785	45.50	561	337	0.53	44978	71.10	608	189	0.30	56485	89.29
515	387	0.61	29172	46.11	562	310	0.49	45288	71.59	609	159	0.25	56644	89.54
516	371	0.59	29543	46.70	563	322	0.51	45610	72.10	610	157	0.25	56801	89.79
517	343	0.54	29886	47.24	564	282	0.45	45892	72.54	611	160	0.25	56961	90.04
518	375	0.59	30261	47.84	565	289	0.46	46181	73.00	612	157	0.25	57118	90.29
519	341	0.54	30602	48.37	566	352	0.56	46533	73.56	613	128	0.20	57246	90.49
520	351	0.55	30953	48.93	567	287	0.45	46820	74.01	614	172	0.27	57418	90.76
521	366	0.58	31319	49.51	568	266	0.42	47086	74.43	615	168	0.27	57586	91.03
522	373	0.59	31692	50.10	569	295	0.47	47381	74.90	616	154	0.24	57740	91.27
523	337	0.53	32029	50.63	570	289	0.46	47670	75.35	617	146	0.23	57886	91.50
524	352	0.56	32381	51.19	571	270	0.43	47940	75.78	618	141	0.22	58027	91.73
525	344	0.54	32725	51.73	572	283	0.45	48223	76.23	619	144	0.23	58171	91.95
526	335	0.53	33060	52.26	573	301	0.48	48524	76.70	620	134	0.21	58305	92.17
527	356	0.56	33416	52.82	574	261	0.41	48785	77.12	621	139	0.22	58444	92.39
528	317	0.50	33733	53.32	575	291	0.46	49076	77.58	622	134	0.21	58578	92.60
529	365	0.58	34098	53.90	576	272	0.43	49348	78.01	623	120	0.19	58698	92.79
530	359	0.57	34457	54.47	577	266	0.42	49614	78.43	624	110	0.17	58808	92.96
531	321	0.51	34778	54.98	578	269	0.43	49883	78.85	625	112	0.18	58920	93.14
532	349	0.55	35127	55.53	579	245	0.39	50128	79.24	626	119	0.19	59039	93.33
533	367	0.58	35494	56.11	580	277	0.44	50405	79.68	627	124	0.20	59163	93.52
534	351	0.55	35845	56.66	581	298	0.47	50703	80.15	628	105	0.17	59268	93.69
535	369	0.58	36214	57.25	582	254	0.40	50957	80.55	629	118	0.19	59386	93.87
536	341	0.54	36555	57.78	583	244	0.39	51201	80.94	630	108	0.17	59494	94.05
537	379	0.60	36934	58.38	584	250	0.40	51451	81.33	631	105	0.17	59599	94.21
538	342	0.54	37276	58.92	585	233	0.37	51684	81.70	632	87	0.14	59686	94.35
539	381	0.60	37657	59.53	586	252	0.40	51936	82.10	633	107	0.17	59793	94.52
540	373	0.59	38030	60.12	587	220	0.35	52156	82.45	634	94	0.15	59887	94.67
541	344	0.54	38374	60.66	588	248	0.39	52404	82.84	635	97	0.15	59984	94.82
542	331	0.52	38705	61.18	589	244	0.39	52648	83.22	636	92	0.15	60076	94.97
543	346	0.55	39051	61.73	590	225	0.36	52873	83.58	637	99	0.16	60175	95.12
544	347	0.55	39398	62.28	591	250	0.40	53123	83.97	638	100	0.16	60275	95.28

Table 171. Scale Score Distribution, Mathematics Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
639	80	0.13	60355	95.41	686	28	0.04	62481	98.77	733	3	0.00	63046	99.66
640	78	0.12	60433	95.53	687	21	0.03	62502	98.80	734	8	0.01	63054	99.67
641	80	0.13	60513	95.66	688	21	0.03	62523	98.83	735	2	0.00	63056	99.68
642	89	0.14	60602	95.80	689	21	0.03	62544	98.87	736	6	0.01	63062	99.69
643	70	0.11	60672	95.91	690	21	0.03	62565	98.90	737	3	0.00	63065	99.69
644	62	0.10	60734	96.01	691	24	0.04	62589	98.94	738	9	0.01	63074	99.70
645	72	0.11	60806	96.12	692	16	0.03	62605	98.96	739	3	0.00	63077	99.71
646	72	0.11	60878	96.23	693	17	0.03	62622	98.99	740	4	0.01	63081	99.72
647	63	0.10	60941	96.33	694	16	0.03	62638	99.02	741	5	0.01	63086	99.72
648	59	0.09	61000	96.43	695	14	0.02	62652	99.04	742	2	0.00	63088	99.73
649	59	0.09	61059	96.52	696	16	0.03	62668	99.06	743	1	0.00	63089	99.73
650	59	0.09	61118	96.61	697	23	0.04	62691	99.10	744	2	0.00	63091	99.73
651	56	0.09	61174	96.70	698	19	0.03	62710	99.13	745	5	0.01	63096	99.74
652	57	0.09	61231	96.79	699	14	0.02	62724	99.15	746	4	0.01	63100	99.75
653	67	0.11	61298	96.90	700	14	0.02	62738	99.17	747	13	0.02	63113	99.77
654	69	0.11	61367	97.01	701	12	0.02	62750	99.19	748	5	0.01	63118	99.77
655	57	0.09	61424	97.10	702	16	0.03	62766	99.22	749	1	0.00	63119	99.78
656	47	0.07	61471	97.17	703	14	0.02	62780	99.24	750	7	0.01	63126	99.79
657	47	0.07	61518	97.24	704	9	0.01	62789	99.25	751	4	0.01	63130	99.79
658	44	0.07	61562	97.31	705	14	0.02	62803	99.28	752	1	0.00	63131	99.79
659	48	0.08	61610	97.39	706	20	0.03	62823	99.31	753	1	0.00	63132	99.80
660	46	0.07	61656	97.46	707	12	0.02	62835	99.33	754	2	0.00	63134	99.80
661	35	0.06	61691	97.52	708	11	0.02	62846	99.34	755	2	0.00	63136	99.80
662	45	0.07	61736	97.59	709	13	0.02	62859	99.36	756	3	0.00	63139	99.81
663	42	0.07	61778	97.66	710	18	0.03	62877	99.39	757	2	0.00	63141	99.81
664	40	0.06	61818	97.72	711	14	0.02	62891	99.42	760	1	0.00	63142	99.81
665	42	0.07	61860	97.79	712	11	0.02	62902	99.43	762	1	0.00	63143	99.81
666	46	0.07	61906	97.86	713	10	0.02	62912	99.45	763	2	0.00	63145	99.82
667	34	0.05	61940	97.91	714	13	0.02	62925	99.47	764	2	0.00	63147	99.82
668	36	0.06	61976	97.97	715	8	0.01	62933	99.48	765	5	0.01	63152	99.83
669	39	0.06	62015	98.03	716	13	0.02	62946	99.50	766	6	0.01	63158	99.84
670	35	0.06	62050	98.09	717	4	0.01	62950	99.51	767	15	0.02	63173	99.86
671	28	0.04	62078	98.13	718	12	0.02	62962	99.53	768	1	0.00	63174	99.86
672	30	0.05	62108	98.18	719	8	0.01	62970	99.54	775	5	0.01	63179	99.87
673	39	0.06	62147	98.24	720	4	0.01	62974	99.55	779	3	0.00	63182	99.88
674	30	0.05	62177	98.29	721	8	0.01	62982	99.56	782	10	0.02	63192	99.89
675	23	0.04	62200	98.32	722	2	0.00	62984	99.56	783	5	0.01	63197	99.90
676	34	0.05	62234	98.38	723	7	0.01	62991	99.57	785	2	0.00	63199	99.90
677	29	0.05	62263	98.42	724	4	0.01	62995	99.58	786	4	0.01	63203	99.91
678	24	0.04	62287	98.46	725	4	0.01	62999	99.59	788	2	0.00	63205	99.91
679	16	0.03	62303	98.49	726	16	0.03	63015	99.61	790	4	0.01	63209	99.92
680	35	0.06	62338	98.54	727	5	0.01	63020	99.62	794	3	0.00	63212	99.92
681	23	0.04	62361	98.58	728	5	0.01	63025	99.63	796	2	0.00	63214	99.93
682	28	0.04	62389	98.62	729	3	0.00	63028	99.63	798	2	0.00	63216	99.93
683	20	0.03	62409	98.65	730	4	0.01	63032	99.64	800	45	0.07	63261	100.00
684	19	0.03	62428	98.68	731	2	0.00	63034	99.64					
685	25	0.04	62453	98.72	732	9	0.01	63043	99.66					

Table 172. Scale Score Distribution, Science Grade 5

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	541	0.86	541	0.86	347	36	0.06	1514	2.39	394	106	0.17	4293	6.79
301	11	0.02	552	0.87	348	22	0.03	1536	2.43	395	90	0.14	4383	6.93
302	11	0.02	563	0.89	349	40	0.06	1576	2.49	396	82	0.13	4465	7.06
303	15	0.02	578	0.91	350	33	0.05	1609	2.54	397	93	0.15	4558	7.21
304	10	0.02	588	0.93	351	39	0.06	1648	2.61	398	101	0.16	4659	7.37
305	14	0.02	602	0.95	352	29	0.05	1677	2.65	399	108	0.17	4767	7.54
306	11	0.02	613	0.97	353	44	0.07	1721	2.72	400	135	0.21	4902	7.75
307	16	0.03	629	0.99	354	35	0.06	1756	2.78	401	114	0.18	5016	7.93
308	16	0.03	645	1.02	355	48	0.08	1804	2.85	402	85	0.13	5101	8.07
309	10	0.02	655	1.04	356	36	0.06	1840	2.91	403	114	0.18	5215	8.25
310	15	0.02	670	1.06	357	32	0.05	1872	2.96	404	121	0.19	5336	8.44
311	14	0.02	684	1.08	358	54	0.09	1926	3.05	405	134	0.21	5470	8.65
312	11	0.02	695	1.10	359	44	0.07	1970	3.12	406	152	0.24	5622	8.89
313	26	0.04	721	1.14	360	42	0.07	2012	3.18	407	145	0.23	5767	9.12
314	17	0.03	738	1.17	361	48	0.08	2060	3.26	408	121	0.19	5888	9.31
315	17	0.03	755	1.19	362	35	0.06	2095	3.31	409	118	0.19	6006	9.50
316	13	0.02	768	1.21	363	43	0.07	2138	3.38	410	125	0.20	6131	9.69
317	22	0.03	790	1.25	364	45	0.07	2183	3.45	411	132	0.21	6263	9.90
318	15	0.02	805	1.27	365	58	0.09	2241	3.54	412	139	0.22	6402	10.12
319	16	0.03	821	1.30	366	40	0.06	2281	3.61	413	124	0.20	6526	10.32
320	11	0.02	832	1.32	367	51	0.08	2332	3.69	414	128	0.20	6654	10.52
321	15	0.02	847	1.34	368	60	0.09	2392	3.78	415	131	0.21	6785	10.73
322	19	0.03	866	1.37	369	70	0.11	2462	3.89	416	148	0.23	6933	10.96
323	18	0.03	884	1.40	370	55	0.09	2517	3.98	417	144	0.23	7077	11.19
324	19	0.03	903	1.43	371	54	0.09	2571	4.07	418	152	0.24	7229	11.43
325	16	0.03	919	1.45	372	52	0.08	2623	4.15	419	157	0.25	7386	11.68
326	23	0.04	942	1.49	373	66	0.10	2689	4.25	420	161	0.25	7547	11.93
327	29	0.05	971	1.54	374	56	0.09	2745	4.34	421	152	0.24	7699	12.17
328	27	0.04	998	1.58	375	52	0.08	2797	4.42	422	146	0.23	7845	12.41
329	25	0.04	1023	1.62	376	83	0.13	2880	4.55	423	142	0.22	7987	12.63
330	18	0.03	1041	1.65	377	72	0.11	2952	4.67	424	179	0.28	8166	12.91
331	28	0.04	1069	1.69	378	66	0.10	3018	4.77	425	150	0.24	8316	13.15
332	27	0.04	1096	1.73	379	83	0.13	3101	4.90	426	165	0.26	8481	13.41
333	38	0.06	1134	1.79	380	58	0.09	3159	5.00	427	183	0.29	8664	13.70
334	23	0.04	1157	1.83	381	69	0.11	3228	5.10	428	178	0.28	8842	13.98
335	18	0.03	1175	1.86	382	73	0.12	3301	5.22	429	155	0.25	8997	14.23
336	24	0.04	1199	1.90	383	99	0.16	3400	5.38	430	162	0.26	9159	14.48
337	22	0.03	1221	1.93	384	73	0.12	3473	5.49	431	187	0.30	9346	14.78
338	21	0.03	1242	1.96	385	73	0.12	3546	5.61	432	193	0.31	9539	15.08
339	29	0.05	1271	2.01	386	69	0.11	3615	5.72	433	188	0.30	9727	15.38
340	25	0.04	1296	2.05	387	78	0.12	3693	5.84	434	187	0.30	9914	15.68
341	23	0.04	1319	2.09	388	69	0.11	3762	5.95	435	204	0.32	10118	16.00
342	30	0.05	1349	2.13	389	73	0.12	3835	6.06	436	203	0.32	10321	16.32
343	33	0.05	1382	2.19	390	82	0.13	3917	6.19	437	194	0.31	10515	16.63
344	35	0.06	1417	2.24	391	78	0.12	3995	6.32	438	189	0.30	10704	16.93
345	27	0.04	1444	2.28	392	102	0.16	4097	6.48	439	216	0.34	10920	17.27
346	34	0.05	1478	2.34	393	90	0.14	4187	6.62	440	226	0.36	11146	17.62

Table 172. Scale Score Distribution, Science Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
441	245	0.39	11391	18.01	488	364	0.58	25365	40.11	535	379	0.60	43600	68.94
442	209	0.33	11600	18.34	489	356	0.56	25721	40.67	536	369	0.58	43969	69.53
443	228	0.36	11828	18.70	490	379	0.60	26100	41.27	537	424	0.67	44393	70.20
444	241	0.38	12069	19.08	491	364	0.58	26464	41.85	538	399	0.63	44792	70.83
445	257	0.41	12326	19.49	492	375	0.59	26839	42.44	539	376	0.59	45168	71.42
446	259	0.41	12585	19.90	493	361	0.57	27200	43.01	540	365	0.58	45533	72.00
447	251	0.40	12836	20.30	494	356	0.56	27556	43.57	541	383	0.61	45916	72.61
448	256	0.40	13092	20.70	495	366	0.58	27922	44.15	542	392	0.62	46308	73.23
449	214	0.34	13306	21.04	496	376	0.59	28298	44.75	543	383	0.61	46691	73.83
450	272	0.43	13578	21.47	497	384	0.61	28682	45.35	544	347	0.55	47038	74.38
451	268	0.42	13846	21.89	498	352	0.56	29034	45.91	545	375	0.59	47413	74.97
452	264	0.42	14110	22.31	499	421	0.67	29455	46.58	546	378	0.60	47791	75.57
453	240	0.38	14350	22.69	500	368	0.58	29823	47.16	547	373	0.59	48164	76.16
454	294	0.46	14644	23.16	501	377	0.60	30200	47.75	548	372	0.59	48536	76.75
455	277	0.44	14921	23.59	502	355	0.56	30555	48.32	549	357	0.56	48893	77.31
456	281	0.44	15202	24.04	503	368	0.58	30923	48.90	550	321	0.51	49214	77.82
457	270	0.43	15472	24.47	504	370	0.59	31293	49.48	551	336	0.53	49550	78.35
458	269	0.43	15741	24.89	505	394	0.62	31687	50.11	552	344	0.54	49894	78.90
459	296	0.47	16037	25.36	506	415	0.66	32102	50.76	553	368	0.58	50262	79.48
460	284	0.45	16321	25.81	507	404	0.64	32506	51.40	554	349	0.55	50611	80.03
461	241	0.38	16562	26.19	508	356	0.56	32862	51.96	555	304	0.48	50915	80.51
462	308	0.49	16870	26.68	509	367	0.58	33229	52.54	556	335	0.53	51250	81.04
463	331	0.52	17201	27.20	510	430	0.68	33659	53.22	557	346	0.55	51596	81.59
464	283	0.45	17484	27.65	511	364	0.58	34023	53.80	558	339	0.54	51935	82.12
465	336	0.53	17820	28.18	512	375	0.59	34398	54.39	559	301	0.48	52236	82.60
466	309	0.49	18129	28.67	513	415	0.66	34813	55.05	560	325	0.51	52561	83.11
467	290	0.46	18419	29.13	514	439	0.69	35252	55.74	561	282	0.45	52843	83.56
468	285	0.45	18704	29.58	515	411	0.65	35663	56.39	562	326	0.52	53169	84.07
469	295	0.47	18999	30.04	516	413	0.65	36076	57.05	563	299	0.47	53468	84.55
470	337	0.53	19336	30.58	517	373	0.59	36449	57.64	564	311	0.49	53779	85.04
471	295	0.47	19631	31.04	518	395	0.62	36844	58.26	565	315	0.50	54094	85.54
472	302	0.48	19933	31.52	519	390	0.62	37234	58.88	566	288	0.46	54382	85.99
473	319	0.50	20252	32.02	520	425	0.67	37659	59.55	567	277	0.44	54659	86.43
474	310	0.49	20562	32.51	521	414	0.65	38073	60.20	568	296	0.47	54955	86.90
475	359	0.57	20921	33.08	522	403	0.64	38476	60.84	569	282	0.45	55237	87.35
476	307	0.49	21228	33.57	523	374	0.59	38850	61.43	570	257	0.41	55494	87.75
477	337	0.53	21565	34.10	524	398	0.63	39248	62.06	571	248	0.39	55742	88.14
478	354	0.56	21919	34.66	525	379	0.60	39627	62.66	572	253	0.40	55995	88.54
479	308	0.49	22227	35.15	526	418	0.66	40045	63.32	573	239	0.38	56234	88.92
480	358	0.57	22585	35.71	527	444	0.70	40489	64.02	574	281	0.44	56515	89.37
481	322	0.51	22907	36.22	528	420	0.66	40909	64.69	575	254	0.40	56769	89.77
482	331	0.52	23238	36.75	529	382	0.60	41291	65.29	576	239	0.38	57008	90.15
483	341	0.54	23579	37.28	530	382	0.60	41673	65.90	577	240	0.38	57248	90.52
484	312	0.49	23891	37.78	531	378	0.60	42051	66.49	578	221	0.35	57469	90.87
485	369	0.58	24260	38.36	532	401	0.63	42452	67.13	579	191	0.30	57660	91.18
486	370	0.59	24630	38.95	533	402	0.64	42854	67.76	580	220	0.35	57880	91.52
487	371	0.59	25001	39.53	534	367	0.58	43221	68.34	581	213	0.34	58093	91.86

Table 172. Scale Score Distribution, Science Grade 5 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
582	216	0.34	58309	92.20	629	19	0.03	62788	99.29	683	1	0.00	63231	99.99
583	188	0.30	58497	92.50	630	25	0.04	62813	99.32	687	1	0.00	63232	99.99
584	181	0.29	58678	92.79	631	34	0.05	62847	99.38	688	2	0.00	63234	99.99
585	203	0.32	58881	93.11	632	27	0.04	62874	99.42	689	1	0.00	63235	99.99
586	184	0.29	59065	93.40	633	21	0.03	62895	99.45	691	2	0.00	63237	100.00
587	161	0.25	59226	93.65	634	27	0.04	62922	99.50	694	1	0.00	63238	100.00
588	165	0.26	59391	93.91	635	16	0.03	62938	99.52	698	1	0.00	63239	100.00
589	166	0.26	59557	94.18	636	32	0.05	62970	99.57	720	1	0.00	63240	100.00
590	174	0.28	59731	94.45	637	24	0.04	62994	99.61					
591	143	0.23	59874	94.68	638	17	0.03	63011	99.64					
592	140	0.22	60014	94.90	639	19	0.03	63030	99.67					
593	147	0.23	60161	95.13	640	16	0.03	63046	99.69					
594	119	0.19	60280	95.32	641	10	0.02	63056	99.71					
595	139	0.22	60419	95.54	642	13	0.02	63069	99.73					
596	120	0.19	60539	95.73	643	12	0.02	63081	99.75					
597	137	0.22	60676	95.95	644	15	0.02	63096	99.77					
598	114	0.18	60790	96.13	645	10	0.02	63106	99.79					
599	100	0.16	60890	96.28	646	8	0.01	63114	99.80					
600	111	0.18	61001	96.46	647	9	0.01	63123	99.81					
601	107	0.17	61108	96.63	648	6	0.01	63129	99.82					
602	102	0.16	61210	96.79	649	3	0.00	63132	99.83					
603	91	0.14	61301	96.93	650	7	0.01	63139	99.84					
604	104	0.16	61405	97.10	651	10	0.02	63149	99.86					
605	110	0.17	61515	97.27	652	5	0.01	63154	99.86					
606	86	0.14	61601	97.41	653	7	0.01	63161	99.88					
607	78	0.12	61679	97.53	654	4	0.01	63165	99.88					
608	69	0.11	61748	97.64	655	9	0.01	63174	99.90					
609	80	0.13	61828	97.77	657	4	0.01	63178	99.90					
610	74	0.12	61902	97.88	658	2	0.00	63180	99.91					
611	68	0.11	61970	97.99	659	7	0.01	63187	99.92					
612	64	0.10	62034	98.09	660	4	0.01	63191	99.92					
613	65	0.10	62099	98.20	661	2	0.00	63193	99.93					
614	57	0.09	62156	98.29	662	2	0.00	63195	99.93					
615	62	0.10	62218	98.38	663	4	0.01	63199	99.94					
616	62	0.10	62280	98.48	664	4	0.01	63203	99.94					
617	59	0.09	62339	98.58	665	1	0.00	63204	99.94					
618	67	0.11	62406	98.68	667	3	0.00	63207	99.95					
619	49	0.08	62455	98.76	668	1	0.00	63208	99.95					
620	45	0.07	62500	98.83	669	2	0.00	63210	99.95					
621	41	0.06	62541	98.89	670	2	0.00	63212	99.96					
622	33	0.05	62574	98.95	671	5	0.01	63217	99.96					
623	40	0.06	62614	99.01	673	3	0.00	63220	99.97					
624	37	0.06	62651	99.07	675	1	0.00	63221	99.97					
625	38	0.06	62689	99.13	676	2	0.00	63223	99.97					
626	23	0.04	62712	99.17	677	3	0.00	63226	99.98					
627	23	0.04	62735	99.20	680	1	0.00	63227	99.98					
628	34	0.05	62769	99.26	681	3	0.00	63230	99.98					

Table 173. Scale Score Distribution, Reading Grade 6

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
260	236	0.38	236	0.38	375	1	0.00	294	0.47	426	10	0.02	458	0.74
263	1	0.00	237	0.38	376	1	0.00	295	0.47	427	8	0.01	466	0.75
268	1	0.00	238	0.38	377	1	0.00	296	0.48	428	8	0.01	474	0.76
271	1	0.00	239	0.38	379	3	0.00	299	0.48	429	6	0.01	480	0.77
272	1	0.00	240	0.39	381	1	0.00	300	0.48	430	5	0.01	485	0.78
282	2	0.00	242	0.39	383	2	0.00	302	0.49	431	6	0.01	491	0.79
284	1	0.00	243	0.39	384	5	0.01	307	0.49	432	7	0.01	498	0.80
289	1	0.00	244	0.39	385	1	0.00	308	0.50	433	9	0.01	507	0.82
292	1	0.00	245	0.39	386	1	0.00	309	0.50	434	10	0.02	517	0.83
294	1	0.00	246	0.40	387	3	0.00	312	0.50	435	6	0.01	523	0.84
295	1	0.00	247	0.40	388	1	0.00	313	0.50	436	6	0.01	529	0.85
297	1	0.00	248	0.40	389	2	0.00	315	0.51	437	14	0.02	543	0.87
298	1	0.00	249	0.40	390	1	0.00	316	0.51	438	9	0.01	552	0.89
302	1	0.00	250	0.40	391	1	0.00	317	0.51	439	8	0.01	560	0.90
303	1	0.00	251	0.40	392	4	0.01	321	0.52	440	14	0.02	574	0.92
305	1	0.00	252	0.41	393	1	0.00	322	0.52	441	10	0.02	584	0.94
308	2	0.00	254	0.41	394	2	0.00	324	0.52	442	13	0.02	597	0.96
310	1	0.00	255	0.41	395	5	0.01	329	0.53	443	5	0.01	602	0.97
312	1	0.00	256	0.41	396	4	0.01	333	0.54	444	9	0.01	611	0.98
317	1	0.00	257	0.41	397	1	0.00	334	0.54	445	9	0.01	620	1.00
318	2	0.00	259	0.42	398	1	0.00	335	0.54	446	7	0.01	627	1.01
325	2	0.00	261	0.42	399	3	0.00	338	0.54	447	11	0.02	638	1.03
329	2	0.00	263	0.42	400	3	0.00	341	0.55	448	15	0.02	653	1.05
331	1	0.00	264	0.42	401	3	0.00	344	0.55	449	12	0.02	665	1.07
332	1	0.00	265	0.43	402	5	0.01	349	0.56	450	8	0.01	673	1.08
336	1	0.00	266	0.43	403	3	0.00	352	0.57	451	14	0.02	687	1.10
339	1	0.00	267	0.43	405	1	0.00	353	0.57	452	6	0.01	693	1.11
341	1	0.00	268	0.43	406	2	0.00	355	0.57	453	17	0.03	710	1.14
343	1	0.00	269	0.43	407	4	0.01	359	0.58	454	13	0.02	723	1.16
345	2	0.00	271	0.44	408	1	0.00	360	0.58	455	8	0.01	731	1.18
347	1	0.00	272	0.44	409	4	0.01	364	0.59	456	19	0.03	750	1.21
348	1	0.00	273	0.44	410	3	0.00	367	0.59	457	17	0.03	767	1.23
352	1	0.00	274	0.44	411	4	0.01	371	0.60	458	9	0.01	776	1.25
353	2	0.00	276	0.44	412	6	0.01	377	0.61	459	10	0.02	786	1.26
355	1	0.00	277	0.45	413	4	0.01	381	0.61	460	13	0.02	799	1.28
356	1	0.00	278	0.45	414	5	0.01	386	0.62	461	16	0.03	815	1.31
360	2	0.00	280	0.45	415	8	0.01	394	0.63	462	21	0.03	836	1.34
361	1	0.00	281	0.45	416	4	0.01	398	0.64	463	13	0.02	849	1.36
363	2	0.00	283	0.45	417	4	0.01	402	0.65	464	21	0.03	870	1.40
364	1	0.00	284	0.46	418	7	0.01	409	0.66	465	13	0.02	883	1.42
366	1	0.00	285	0.46	419	7	0.01	416	0.67	466	22	0.04	905	1.45
367	2	0.00	287	0.46	420	5	0.01	421	0.68	467	17	0.03	922	1.48
368	1	0.00	288	0.46	421	3	0.00	424	0.68	468	23	0.04	945	1.52
369	2	0.00	290	0.47	422	4	0.01	428	0.69	469	24	0.04	969	1.56
370	1	0.00	291	0.47	423	5	0.01	433	0.70	470	11	0.02	980	1.58
372	1	0.00	292	0.47	424	8	0.01	441	0.71	471	29	0.05	1009	1.62
374	1	0.00	293	0.47	425	7	0.01	448	0.72	472	22	0.04	1031	1.66

Table 173. Scale Score Distribution, Reading Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
473	16	0.03	1047	1.68	520	53	0.09	3041	4.89	567	157	0.25	8428	13.55
474	30	0.05	1077	1.73	521	68	0.11	3109	5.00	568	185	0.30	8613	13.85
475	21	0.03	1098	1.77	522	53	0.09	3162	5.08	569	193	0.31	8806	14.16
476	32	0.05	1130	1.82	523	67	0.11	3229	5.19	570	190	0.31	8996	14.46
477	27	0.04	1157	1.86	524	68	0.11	3297	5.30	571	199	0.32	9195	14.78
478	26	0.04	1183	1.90	525	68	0.11	3365	5.41	572	184	0.30	9379	15.08
479	23	0.04	1206	1.94	526	76	0.12	3441	5.53	573	184	0.30	9563	15.37
480	26	0.04	1232	1.98	527	95	0.15	3536	5.68	574	206	0.33	9769	15.70
481	28	0.05	1260	2.03	528	80	0.13	3616	5.81	575	198	0.32	9967	16.02
482	21	0.03	1281	2.06	529	97	0.16	3713	5.97	576	188	0.30	10155	16.32
483	26	0.04	1307	2.10	530	68	0.11	3781	6.08	577	203	0.33	10358	16.65
484	34	0.05	1341	2.16	531	85	0.14	3866	6.21	578	233	0.37	10591	17.03
485	30	0.05	1371	2.20	532	76	0.12	3942	6.34	579	229	0.37	10820	17.39
486	31	0.05	1402	2.25	533	83	0.13	4025	6.47	580	247	0.40	11067	17.79
487	25	0.04	1427	2.29	534	93	0.15	4118	6.62	581	235	0.38	11302	18.17
488	32	0.05	1459	2.35	535	103	0.17	4221	6.79	582	233	0.37	11535	18.54
489	32	0.05	1491	2.40	536	108	0.17	4329	6.96	583	226	0.36	11761	18.91
490	44	0.07	1535	2.47	537	104	0.17	4433	7.13	584	247	0.40	12008	19.30
491	38	0.06	1573	2.53	538	88	0.14	4521	7.27	585	224	0.36	12232	19.66
492	35	0.06	1608	2.58	539	113	0.18	4634	7.45	586	282	0.45	12514	20.12
493	35	0.06	1643	2.64	540	92	0.15	4726	7.60	587	260	0.42	12774	20.53
494	40	0.06	1683	2.71	541	104	0.17	4830	7.76	588	265	0.43	13039	20.96
495	33	0.05	1716	2.76	542	108	0.17	4938	7.94	589	250	0.40	13289	21.36
496	40	0.06	1756	2.82	543	140	0.23	5078	8.16	590	267	0.43	13556	21.79
497	44	0.07	1800	2.89	544	109	0.18	5187	8.34	591	263	0.42	13819	22.21
498	39	0.06	1839	2.96	545	102	0.16	5289	8.50	592	290	0.47	14109	22.68
499	45	0.07	1884	3.03	546	115	0.18	5404	8.69	593	288	0.46	14397	23.14
500	56	0.09	1940	3.12	547	135	0.22	5539	8.90	594	297	0.48	14694	23.62
501	49	0.08	1989	3.20	548	116	0.19	5655	9.09	595	293	0.47	14987	24.09
502	47	0.08	2036	3.27	549	130	0.21	5785	9.30	596	319	0.51	15306	24.61
503	44	0.07	2080	3.34	550	109	0.18	5894	9.47	597	310	0.50	15616	25.10
504	35	0.06	2115	3.40	551	114	0.18	6008	9.66	598	324	0.52	15940	25.62
505	59	0.09	2174	3.49	552	139	0.22	6147	9.88	599	307	0.49	16247	26.12
506	48	0.08	2222	3.57	553	121	0.19	6268	10.08	600	300	0.48	16547	26.60
507	44	0.07	2266	3.64	554	132	0.21	6400	10.29	601	327	0.53	16874	27.13
508	52	0.08	2318	3.73	555	162	0.26	6562	10.55	602	322	0.52	17196	27.64
509	64	0.10	2382	3.83	556	119	0.19	6681	10.74	603	318	0.51	17514	28.15
510	56	0.09	2438	3.92	557	146	0.23	6827	10.97	604	340	0.55	17854	28.70
511	61	0.10	2499	4.02	558	151	0.24	6978	11.22	605	336	0.54	18190	29.24
512	58	0.09	2557	4.11	559	145	0.23	7123	11.45	606	363	0.58	18553	29.83
513	54	0.09	2611	4.20	560	162	0.26	7285	11.71	607	358	0.58	18911	30.40
514	55	0.09	2666	4.29	561	144	0.23	7429	11.94	608	342	0.55	19253	30.95
515	60	0.10	2726	4.38	562	163	0.26	7592	12.20	609	357	0.57	19610	31.52
516	59	0.09	2785	4.48	563	162	0.26	7754	12.47	610	327	0.53	19937	32.05
517	57	0.09	2842	4.57	564	166	0.27	7920	12.73	611	345	0.55	20282	32.60
518	60	0.10	2902	4.67	565	195	0.31	8115	13.05	612	376	0.60	20658	33.21
519	86	0.14	2988	4.80	566	156	0.25	8271	13.30	613	378	0.61	21036	33.82

Table 173. Scale Score Distribution, Reading Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
614	349	0.56	21385	34.38	661	466	0.75	42556	68.41	708	159	0.26	58097	93.39
615	367	0.59	21752	34.97	662	438	0.70	42994	69.12	709	171	0.27	58268	93.67
616	407	0.65	22159	35.62	663	481	0.77	43475	69.89	710	178	0.29	58446	93.96
617	400	0.64	22559	36.26	664	469	0.75	43944	70.64	711	144	0.23	58590	94.19
618	421	0.68	22980	36.94	665	436	0.70	44380	71.34	712	163	0.26	58753	94.45
619	370	0.59	23350	37.54	666	425	0.68	44805	72.03	713	143	0.23	58896	94.68
620	423	0.68	23773	38.22	667	467	0.75	45272	72.78	714	148	0.24	59044	94.92
621	401	0.64	24174	38.86	668	393	0.63	45665	73.41	715	148	0.24	59192	95.15
622	381	0.61	24555	39.47	669	418	0.67	46083	74.08	716	140	0.23	59332	95.38
623	437	0.70	24992	40.18	670	457	0.73	46540	74.82	717	138	0.22	59470	95.60
624	380	0.61	25372	40.79	671	396	0.64	46936	75.45	718	145	0.23	59615	95.83
625	423	0.68	25795	41.47	672	416	0.67	47352	76.12	719	121	0.19	59736	96.03
626	442	0.71	26237	42.18	673	389	0.63	47741	76.75	720	121	0.19	59857	96.22
627	451	0.73	26688	42.90	674	414	0.67	48155	77.41	721	117	0.19	59974	96.41
628	422	0.68	27110	43.58	675	399	0.64	48554	78.05	722	129	0.21	60103	96.62
629	443	0.71	27553	44.29	676	376	0.60	48930	78.66	723	115	0.18	60218	96.80
630	462	0.74	28015	45.04	677	379	0.61	49309	79.27	724	100	0.16	60318	96.96
631	470	0.76	28485	45.79	678	411	0.66	49720	79.93	725	87	0.14	60405	97.10
632	453	0.73	28938	46.52	679	405	0.65	50125	80.58	726	81	0.13	60486	97.23
633	480	0.77	29418	47.29	680	347	0.56	50472	81.14	727	93	0.15	60579	97.38
634	529	0.85	29947	48.14	681	357	0.57	50829	81.71	728	90	0.14	60669	97.53
635	418	0.67	30365	48.81	682	334	0.54	51163	82.25	729	74	0.12	60743	97.65
636	461	0.74	30826	49.55	683	312	0.50	51475	82.75	730	70	0.11	60813	97.76
637	438	0.70	31264	50.26	684	320	0.51	51795	83.26	731	71	0.11	60884	97.87
638	452	0.73	31716	50.99	685	319	0.51	52114	83.78	732	67	0.11	60951	97.98
639	468	0.75	32184	51.74	686	337	0.54	52451	84.32	733	60	0.10	61011	98.08
640	503	0.81	32687	52.55	687	319	0.51	52770	84.83	734	74	0.12	61085	98.20
641	491	0.79	33178	53.34	688	336	0.54	53106	85.37	735	73	0.12	61158	98.32
642	472	0.76	33650	54.09	689	295	0.47	53401	85.85	736	59	0.09	61217	98.41
643	469	0.75	34119	54.85	690	312	0.50	53713	86.35	737	59	0.09	61276	98.50
644	435	0.70	34554	55.55	691	306	0.49	54019	86.84	738	54	0.09	61330	98.59
645	485	0.78	35039	56.33	692	287	0.46	54306	87.30	739	49	0.08	61379	98.67
646	470	0.76	35509	57.08	693	274	0.44	54580	87.74	740	51	0.08	61430	98.75
647	480	0.77	35989	57.85	694	269	0.43	54849	88.17	741	32	0.05	61462	98.80
648	461	0.74	36450	58.60	695	260	0.42	55109	88.59	742	41	0.07	61503	98.87
649	491	0.79	36941	59.38	696	293	0.47	55402	89.06	743	35	0.06	61538	98.93
650	484	0.78	37425	60.16	697	266	0.43	55668	89.49	744	37	0.06	61575	98.99
651	456	0.73	37881	60.90	698	258	0.41	55926	89.90	745	41	0.07	61616	99.05
652	471	0.76	38352	61.65	699	250	0.40	56176	90.31	746	32	0.05	61648	99.10
653	500	0.80	38852	62.46	700	233	0.37	56409	90.68	747	32	0.05	61680	99.15
654	463	0.74	39315	63.20	701	246	0.40	56655	91.08	748	23	0.04	61703	99.19
655	448	0.72	39763	63.92	702	228	0.37	56883	91.44	749	40	0.06	61743	99.26
656	470	0.76	40233	64.68	703	233	0.37	57116	91.82	750	29	0.05	61772	99.30
657	460	0.74	40693	65.42	704	216	0.35	57332	92.16	751	25	0.04	61797	99.34
658	451	0.73	41144	66.14	705	231	0.37	57563	92.54	752	21	0.03	61818	99.38
659	458	0.74	41602	66.88	706	191	0.31	57754	92.84	753	24	0.04	61842	99.41
660	488	0.78	42090	67.66	707	184	0.30	57938	93.14	754	28	0.05	61870	99.46

Table 173. Scale Score Distribution, Reading Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
755	23	0.04	61893	99.50	797	1	0.00	62185	99.97
756	20	0.03	61913	99.53	800	2	0.00	62187	99.97
757	13	0.02	61926	99.55	801	2	0.00	62189	99.97
758	13	0.02	61939	99.57	802	1	0.00	62190	99.97
759	18	0.03	61957	99.60	805	1	0.00	62191	99.98
760	16	0.03	61973	99.63	808	2	0.00	62193	99.98
761	15	0.02	61988	99.65	812	1	0.00	62194	99.98
762	12	0.02	62000	99.67	814	1	0.00	62195	99.98
763	13	0.02	62013	99.69	817	1	0.00	62196	99.98
764	14	0.02	62027	99.71	818	3	0.00	62199	99.99
765	7	0.01	62034	99.72	824	1	0.00	62200	99.99
766	11	0.02	62045	99.74	826	2	0.00	62202	99.99
767	8	0.01	62053	99.75	828	1	0.00	62203	100.00
768	10	0.02	62063	99.77	836	1	0.00	62204	100.00
769	6	0.01	62069	99.78	837	1	0.00	62205	100.00
770	6	0.01	62075	99.79	904	1	0.00	62206	100.00
771	11	0.02	62086	99.81					
772	8	0.01	62094	99.82					
773	4	0.01	62098	99.83					
774	7	0.01	62105	99.84					
775	2	0.00	62107	99.84					
776	8	0.01	62115	99.85					
777	7	0.01	62122	99.86					
778	4	0.01	62126	99.87					
779	4	0.01	62130	99.88					
780	4	0.01	62134	99.88					
781	4	0.01	62138	99.89					
782	5	0.01	62143	99.90					
783	1	0.00	62144	99.90					
784	3	0.00	62147	99.91					
785	3	0.00	62150	99.91					
787	4	0.01	62154	99.92					
788	3	0.00	62157	99.92					
790	5	0.01	62162	99.93					
791	3	0.00	62165	99.93					
792	5	0.01	62170	99.94					
793	3	0.00	62173	99.95					
794	2	0.00	62175	99.95					
795	5	0.01	62180	99.96					
796	4	0.01	62184	99.96					

Table 174. Scale Score Distribution, Writing Grade 6

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
230	12	0.02	12	0.02	328	5	0.01	95	0.15	375	21	0.03	508	0.81
238	1	0.00	13	0.02	329	2	0.00	97	0.15	376	21	0.03	529	0.84
241	2	0.00	15	0.02	330	3	0.00	100	0.16	377	12	0.02	541	0.86
242	2	0.00	17	0.03	331	6	0.01	106	0.17	378	20	0.03	561	0.89
244	1	0.00	18	0.03	332	3	0.00	109	0.17	379	31	0.05	592	0.94
253	1	0.00	19	0.03	333	2	0.00	111	0.18	380	16	0.03	608	0.97
259	1	0.00	20	0.03	334	8	0.01	119	0.19	381	21	0.03	629	1.00
261	2	0.00	22	0.04	335	3	0.00	122	0.19	382	27	0.04	656	1.05
265	1	0.00	23	0.04	336	5	0.01	127	0.20	383	18	0.03	674	1.07
268	1	0.00	24	0.04	337	7	0.01	134	0.21	384	30	0.05	704	1.12
269	1	0.00	25	0.04	338	6	0.01	140	0.22	385	27	0.04	731	1.17
270	2	0.00	27	0.04	339	4	0.01	144	0.23	386	20	0.03	751	1.20
271	1	0.00	28	0.04	340	8	0.01	152	0.24	387	27	0.04	778	1.24
276	1	0.00	29	0.05	341	2	0.00	154	0.25	388	28	0.04	806	1.29
277	1	0.00	30	0.05	342	3	0.00	157	0.25	389	20	0.03	826	1.32
278	1	0.00	31	0.05	343	4	0.01	161	0.26	390	27	0.04	853	1.36
280	1	0.00	32	0.05	344	5	0.01	166	0.26	391	22	0.04	875	1.40
281	1	0.00	33	0.05	345	6	0.01	172	0.27	392	24	0.04	899	1.43
286	2	0.00	35	0.06	346	5	0.01	177	0.28	393	41	0.07	940	1.50
287	1	0.00	36	0.06	347	3	0.00	180	0.29	394	33	0.05	973	1.55
288	1	0.00	37	0.06	348	9	0.01	189	0.30	395	33	0.05	1006	1.60
290	1	0.00	38	0.06	349	5	0.01	194	0.31	396	32	0.05	1038	1.66
292	1	0.00	39	0.06	350	7	0.01	201	0.32	397	38	0.06	1076	1.72
295	1	0.00	40	0.06	351	5	0.01	206	0.33	398	33	0.05	1109	1.77
297	1	0.00	41	0.07	352	7	0.01	213	0.34	399	44	0.07	1153	1.84
299	3	0.00	44	0.07	353	12	0.02	225	0.36	400	31	0.05	1184	1.89
300	3	0.00	47	0.07	354	14	0.02	239	0.38	401	38	0.06	1222	1.95
303	1	0.00	48	0.08	355	11	0.02	250	0.40	402	48	0.08	1270	2.03
304	1	0.00	49	0.08	356	6	0.01	256	0.41	403	53	0.08	1323	2.11
306	1	0.00	50	0.08	357	7	0.01	263	0.42	404	60	0.10	1383	2.21
308	1	0.00	51	0.08	358	12	0.02	275	0.44	405	42	0.07	1425	2.27
309	1	0.00	52	0.08	359	17	0.03	292	0.47	406	50	0.08	1475	2.35
310	5	0.01	57	0.09	360	11	0.02	303	0.48	407	44	0.07	1519	2.42
311	1	0.00	58	0.09	361	10	0.02	313	0.50	408	53	0.08	1572	2.51
313	2	0.00	60	0.10	362	8	0.01	321	0.51	409	83	0.13	1655	2.64
314	2	0.00	62	0.10	363	18	0.03	339	0.54	410	70	0.11	1725	2.75
317	2	0.00	64	0.10	364	13	0.02	352	0.56	411	59	0.09	1784	2.85
318	1	0.00	65	0.10	365	9	0.01	361	0.58	412	57	0.09	1841	2.94
319	2	0.00	67	0.11	366	8	0.01	369	0.59	413	67	0.11	1908	3.04
320	2	0.00	69	0.11	367	12	0.02	381	0.61	414	63	0.10	1971	3.14
321	1	0.00	70	0.11	368	15	0.02	396	0.63	415	69	0.11	2040	3.25
322	3	0.00	73	0.12	369	15	0.02	411	0.66	416	68	0.11	2108	3.36
323	2	0.00	75	0.12	370	11	0.02	422	0.67	417	68	0.11	2176	3.47
324	3	0.00	78	0.12	371	16	0.03	438	0.70	418	84	0.13	2260	3.60
325	3	0.00	81	0.13	372	20	0.03	458	0.73	419	100	0.16	2360	3.76
326	5	0.01	86	0.14	373	11	0.02	469	0.75	420	84	0.13	2444	3.90
327	4	0.01	90	0.14	374	18	0.03	487	0.78	421	85	0.14	2529	4.03

Table 174. Scale Score Distribution, Writing Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
422	100	0.16	2629	4.19	469	234	0.37	10478	16.71	516	469	0.75	28228	45.02
423	102	0.16	2731	4.36	470	234	0.37	10712	17.09	517	470	0.75	28698	45.77
424	99	0.16	2830	4.51	471	268	0.43	10980	17.51	518	450	0.72	29148	46.49
425	93	0.15	2923	4.66	472	284	0.45	11264	17.97	519	445	0.71	29593	47.20
426	126	0.20	3049	4.86	473	291	0.46	11555	18.43	520	463	0.74	30056	47.94
427	106	0.17	3155	5.03	474	281	0.45	11836	18.88	521	467	0.74	30523	48.68
428	100	0.16	3255	5.19	475	256	0.41	12092	19.29	522	454	0.72	30977	49.41
429	94	0.15	3349	5.34	476	297	0.47	12389	19.76	523	483	0.77	31460	50.18
430	123	0.20	3472	5.54	477	315	0.50	12704	20.26	524	436	0.70	31896	50.87
431	108	0.17	3580	5.71	478	315	0.50	13019	20.76	525	476	0.76	32372	51.63
432	126	0.20	3706	5.91	479	319	0.51	13338	21.27	526	441	0.70	32813	52.34
433	117	0.19	3823	6.10	480	338	0.54	13676	21.81	527	512	0.82	33325	53.15
434	118	0.19	3941	6.29	481	337	0.54	14013	22.35	528	460	0.73	33785	53.89
435	110	0.18	4051	6.46	482	313	0.50	14326	22.85	529	443	0.71	34228	54.59
436	121	0.19	4172	6.65	483	350	0.56	14676	23.41	530	433	0.69	34661	55.28
437	129	0.21	4301	6.86	484	327	0.52	15003	23.93	531	470	0.75	35131	56.03
438	158	0.25	4459	7.11	485	351	0.56	15354	24.49	532	423	0.67	35554	56.71
439	152	0.24	4611	7.35	486	395	0.63	15749	25.12	533	399	0.64	35953	57.34
440	144	0.23	4755	7.58	487	349	0.56	16098	25.68	534	454	0.72	36407	58.07
441	140	0.22	4895	7.81	488	339	0.54	16437	26.22	535	503	0.80	36910	58.87
442	151	0.24	5046	8.05	489	394	0.63	16831	26.84	536	452	0.72	37362	59.59
443	156	0.25	5202	8.30	490	355	0.57	17186	27.41	537	428	0.68	37790	60.27
444	146	0.23	5348	8.53	491	389	0.62	17575	28.03	538	417	0.67	38207	60.94
445	161	0.26	5509	8.79	492	396	0.63	17971	28.66	539	464	0.74	38671	61.68
446	165	0.26	5674	9.05	493	368	0.59	18339	29.25	540	449	0.72	39120	62.39
447	189	0.30	5863	9.35	494	371	0.59	18710	29.84	541	420	0.67	39540	63.06
448	163	0.26	6026	9.61	495	401	0.64	19111	30.48	542	427	0.68	39967	63.75
449	178	0.28	6204	9.90	496	422	0.67	19533	31.15	543	453	0.72	40420	64.47
450	185	0.30	6389	10.19	497	422	0.67	19955	31.83	544	426	0.68	40846	65.15
451	191	0.30	6580	10.49	498	386	0.62	20341	32.44	545	430	0.69	41276	65.83
452	172	0.27	6752	10.77	499	386	0.62	20727	33.06	546	422	0.67	41698	66.51
453	188	0.30	6940	11.07	500	426	0.68	21153	33.74	547	420	0.67	42118	67.18
454	188	0.30	7128	11.37	501	458	0.73	21611	34.47	548	403	0.64	42521	67.82
455	172	0.27	7300	11.64	502	417	0.67	22028	35.13	549	350	0.56	42871	68.38
456	186	0.30	7486	11.94	503	431	0.69	22459	35.82	550	449	0.72	43320	69.09
457	216	0.34	7702	12.28	504	458	0.73	22917	36.55	551	387	0.62	43707	69.71
458	226	0.36	7928	12.64	505	423	0.67	23340	37.23	552	401	0.64	44108	70.35
459	215	0.34	8143	12.99	506	421	0.67	23761	37.90	553	390	0.62	44498	70.97
460	222	0.35	8365	13.34	507	420	0.67	24181	38.57	554	399	0.64	44897	71.61
461	201	0.32	8566	13.66	508	420	0.67	24601	39.24	555	393	0.63	45290	72.24
462	233	0.37	8799	14.03	509	389	0.62	24990	39.86	556	352	0.56	45642	72.80
463	236	0.38	9035	14.41	510	450	0.72	25440	40.58	557	346	0.55	45988	73.35
464	217	0.35	9252	14.76	511	455	0.73	25895	41.30	558	360	0.57	46348	73.92
465	238	0.38	9490	15.14	512	474	0.76	26369	42.06	559	353	0.56	46701	74.49
466	234	0.37	9724	15.51	513	450	0.72	26819	42.77	560	349	0.56	47050	75.04
467	248	0.40	9972	15.90	514	479	0.76	27298	43.54	561	375	0.60	47425	75.64
468	272	0.43	10244	16.34	515	461	0.74	27759	44.27	562	338	0.54	47763	76.18

Table 174. Scale Score Distribution, Writing Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
563	352	0.56	48115	76.74	610	108	0.17	58751	93.70	657	27	0.04	61914	98.75
564	327	0.52	48442	77.26	611	116	0.19	58867	93.89	658	28	0.04	61942	98.79
565	314	0.50	48756	77.76	612	127	0.20	58994	94.09	659	24	0.04	61966	98.83
566	312	0.50	49068	78.26	613	110	0.18	59104	94.27	660	39	0.06	62005	98.89
567	300	0.48	49368	78.74	614	115	0.18	59219	94.45	661	24	0.04	62029	98.93
568	366	0.58	49734	79.32	615	114	0.18	59333	94.63	662	19	0.03	62048	98.96
569	297	0.47	50031	79.80	616	110	0.18	59443	94.81	663	31	0.05	62079	99.01
570	297	0.47	50328	80.27	617	96	0.15	59539	94.96	664	19	0.03	62098	99.04
571	311	0.50	50639	80.77	618	116	0.19	59655	95.15	665	18	0.03	62116	99.07
572	282	0.45	50921	81.22	619	106	0.17	59761	95.32	666	12	0.02	62128	99.09
573	266	0.42	51187	81.64	620	104	0.17	59865	95.48	667	15	0.02	62143	99.11
574	299	0.48	51486	82.12	621	89	0.14	59954	95.62	668	17	0.03	62160	99.14
575	267	0.43	51753	82.54	622	83	0.13	60037	95.76	669	17	0.03	62177	99.17
576	258	0.41	52011	82.95	623	91	0.15	60128	95.90	670	18	0.03	62195	99.20
577	257	0.41	52268	83.36	624	74	0.12	60202	96.02	671	15	0.02	62210	99.22
578	277	0.44	52545	83.81	625	83	0.13	60285	96.15	672	18	0.03	62228	99.25
579	255	0.41	52800	84.21	626	102	0.16	60387	96.31	673	11	0.02	62239	99.27
580	247	0.39	53047	84.61	627	69	0.11	60456	96.42	674	7	0.01	62246	99.28
581	255	0.41	53302	85.01	628	85	0.14	60541	96.56	675	20	0.03	62266	99.31
582	229	0.37	53531	85.38	629	68	0.11	60609	96.67	676	35	0.06	62301	99.37
583	258	0.41	53789	85.79	630	70	0.11	60679	96.78	677	19	0.03	62320	99.40
584	218	0.35	54007	86.14	631	68	0.11	60747	96.89	678	10	0.02	62330	99.41
585	238	0.38	54245	86.52	632	74	0.12	60821	97.01	679	8	0.01	62338	99.43
586	218	0.35	54463	86.87	633	40	0.06	60861	97.07	680	5	0.01	62343	99.43
587	219	0.35	54682	87.21	634	45	0.07	60906	97.14	681	21	0.03	62364	99.47
588	221	0.35	54903	87.57	635	57	0.09	60963	97.23	682	22	0.04	62386	99.50
589	221	0.35	55124	87.92	636	75	0.12	61038	97.35	683	9	0.01	62395	99.52
590	212	0.34	55336	88.26	637	52	0.08	61090	97.44	684	7	0.01	62402	99.53
591	223	0.36	55559	88.61	638	57	0.09	61147	97.53	685	4	0.01	62406	99.53
592	187	0.30	55746	88.91	639	48	0.08	61195	97.60	686	3	0.00	62409	99.54
593	195	0.31	55941	89.22	640	50	0.08	61245	97.68	687	5	0.01	62414	99.55
594	192	0.31	56133	89.53	641	57	0.09	61302	97.77	688	6	0.01	62420	99.56
595	218	0.35	56351	89.88	642	51	0.08	61353	97.85	689	9	0.01	62429	99.57
596	208	0.33	56559	90.21	643	48	0.08	61401	97.93	690	11	0.02	62440	99.59
597	184	0.29	56743	90.50	644	44	0.07	61445	98.00	691	4	0.01	62444	99.59
598	189	0.30	56932	90.80	645	45	0.07	61490	98.07	692	3	0.00	62447	99.60
599	188	0.30	57120	91.10	646	48	0.08	61538	98.15	693	11	0.02	62458	99.62
600	167	0.27	57287	91.37	647	34	0.05	61572	98.20	694	4	0.01	62462	99.62
601	181	0.29	57468	91.66	648	50	0.08	61622	98.28	695	11	0.02	62473	99.64
602	158	0.25	57626	91.91	649	36	0.06	61658	98.34	696	1	0.00	62474	99.64
603	170	0.27	57796	92.18	650	33	0.05	61691	98.39	697	9	0.01	62483	99.66
604	152	0.24	57948	92.42	651	15	0.02	61706	98.42	698	7	0.01	62490	99.67
605	155	0.25	58103	92.67	652	38	0.06	61744	98.48	699	2	0.00	62492	99.67
606	134	0.21	58237	92.88	653	28	0.04	61772	98.52	700	5	0.01	62497	99.68
607	152	0.24	58389	93.13	654	48	0.08	61820	98.60	701	7	0.01	62504	99.69
608	132	0.21	58521	93.34	655	34	0.05	61854	98.65	702	6	0.01	62510	99.70
609	122	0.19	58643	93.53	656	33	0.05	61887	98.71	703	14	0.02	62524	99.72

Table 174. Scale Score Distribution, Writing Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
704	7	0.01	62531	99.73
705	3	0.00	62534	99.74
706	16	0.03	62550	99.76
707	9	0.01	62559	99.78
708	1	0.00	62560	99.78
709	1	0.00	62561	99.78
710	2	0.00	62563	99.78
711	7	0.01	62570	99.80
712	6	0.01	62576	99.81
714	17	0.03	62593	99.83
715	2	0.00	62595	99.84
716	1	0.00	62596	99.84
717	3	0.00	62599	99.84
719	6	0.01	62605	99.85
722	3	0.00	62608	99.86
723	7	0.01	62615	99.87
725	3	0.00	62618	99.87
727	1	0.00	62619	99.87
731	1	0.00	62620	99.88
737	1	0.00	62621	99.88
741	1	0.00	62622	99.88
743	13	0.02	62635	99.90
744	3	0.00	62638	99.90
746	2	0.00	62640	99.91
749	5	0.01	62645	99.92
755	19	0.03	62664	99.95
761	1	0.00	62665	99.95
764	12	0.02	62677	99.97
786	1	0.00	62678	99.97
840	20	0.03	62698	100.00

Table 175. Scale Score Distribution, Mathematics Grade 6

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
240	130	0.21	130	0.21	292	2	0.00	234	0.37	340	16	0.03	607	0.97
241	1	0.00	131	0.21	294	3	0.00	237	0.38	341	16	0.03	623	0.99
242	1	0.00	132	0.21	295	5	0.01	242	0.39	342	15	0.02	638	1.02
243	1	0.00	133	0.21	296	2	0.00	244	0.39	343	21	0.03	659	1.05
244	1	0.00	134	0.21	297	4	0.01	248	0.40	344	11	0.02	670	1.07
245	2	0.00	136	0.22	298	4	0.01	252	0.40	345	8	0.01	678	1.08
246	1	0.00	137	0.22	299	4	0.01	256	0.41	346	19	0.03	697	1.11
247	1	0.00	138	0.22	300	7	0.01	263	0.42	347	16	0.03	713	1.14
248	2	0.00	140	0.22	301	7	0.01	270	0.43	348	22	0.04	735	1.17
249	1	0.00	141	0.22	302	5	0.01	275	0.44	349	18	0.03	753	1.20
250	1	0.00	142	0.23	303	5	0.01	280	0.45	350	11	0.02	764	1.22
251	1	0.00	143	0.23	304	4	0.01	284	0.45	351	16	0.03	780	1.24
252	1	0.00	144	0.23	305	7	0.01	291	0.46	352	24	0.04	804	1.28
253	1	0.00	145	0.23	306	5	0.01	296	0.47	353	13	0.02	817	1.30
256	3	0.00	148	0.24	307	3	0.00	299	0.48	354	19	0.03	836	1.33
257	2	0.00	150	0.24	308	5	0.01	304	0.48	355	19	0.03	855	1.36
258	2	0.00	152	0.24	309	7	0.01	311	0.50	356	13	0.02	868	1.38
259	1	0.00	153	0.24	310	6	0.01	317	0.51	357	20	0.03	888	1.41
260	2	0.00	155	0.25	311	4	0.01	321	0.51	358	17	0.03	905	1.44
261	3	0.00	158	0.25	312	11	0.02	332	0.53	359	19	0.03	924	1.47
262	2	0.00	160	0.25	313	5	0.01	337	0.54	360	21	0.03	945	1.51
263	1	0.00	161	0.26	314	6	0.01	343	0.55	361	18	0.03	963	1.53
265	2	0.00	163	0.26	315	10	0.02	353	0.56	362	25	0.04	988	1.57
267	4	0.01	167	0.27	316	4	0.01	357	0.57	363	22	0.04	1010	1.61
268	3	0.00	170	0.27	317	8	0.01	365	0.58	364	20	0.03	1030	1.64
269	3	0.00	173	0.28	318	8	0.01	373	0.59	365	23	0.04	1053	1.68
270	2	0.00	175	0.28	319	5	0.01	378	0.60	366	30	0.05	1083	1.73
271	2	0.00	177	0.28	320	8	0.01	386	0.62	367	32	0.05	1115	1.78
272	1	0.00	178	0.28	321	16	0.03	402	0.64	368	29	0.05	1144	1.82
273	2	0.00	180	0.29	322	5	0.01	407	0.65	369	32	0.05	1176	1.87
274	4	0.01	184	0.29	323	9	0.01	416	0.66	370	21	0.03	1197	1.91
275	4	0.01	188	0.30	324	9	0.01	425	0.68	371	26	0.04	1223	1.95
276	3	0.00	191	0.30	325	14	0.02	439	0.70	372	24	0.04	1247	1.99
277	5	0.01	196	0.31	326	6	0.01	445	0.71	373	29	0.05	1276	2.03
278	1	0.00	197	0.31	327	9	0.01	454	0.72	374	18	0.03	1294	2.06
279	3	0.00	200	0.32	328	7	0.01	461	0.73	375	26	0.04	1320	2.10
280	2	0.00	202	0.32	329	7	0.01	468	0.75	376	22	0.04	1342	2.14
281	2	0.00	204	0.33	330	17	0.03	485	0.77	377	34	0.05	1376	2.19
282	2	0.00	206	0.33	331	10	0.02	495	0.79	378	40	0.06	1416	2.26
283	2	0.00	208	0.33	332	8	0.01	503	0.80	379	43	0.07	1459	2.32
284	4	0.01	212	0.34	333	13	0.02	516	0.82	380	42	0.07	1501	2.39
285	2	0.00	214	0.34	334	15	0.02	531	0.85	381	39	0.06	1540	2.45
286	5	0.01	219	0.35	335	14	0.02	545	0.87	382	36	0.06	1576	2.51
287	4	0.01	223	0.36	336	17	0.03	562	0.90	383	46	0.07	1622	2.58
288	2	0.00	225	0.36	337	6	0.01	568	0.91	384	39	0.06	1661	2.65
290	5	0.01	230	0.37	338	13	0.02	581	0.93	385	35	0.06	1696	2.70
291	2	0.00	232	0.37	339	10	0.02	591	0.94	386	39	0.06	1735	2.76

Table 175. Scale Score Distribution, Mathematics Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
387	39	0.06	1774	2.83	434	94	0.15	5058	8.06	481	213	0.34	12718	20.26
388	50	0.08	1824	2.91	435	100	0.16	5158	8.22	482	243	0.39	12961	20.65
389	36	0.06	1860	2.96	436	101	0.16	5259	8.38	483	244	0.39	13205	21.04
390	42	0.07	1902	3.03	437	124	0.20	5383	8.58	484	252	0.40	13457	21.44
391	41	0.07	1943	3.10	438	105	0.17	5488	8.74	485	261	0.42	13718	21.86
392	50	0.08	1993	3.18	439	109	0.17	5597	8.92	486	260	0.41	13978	22.27
393	61	0.10	2054	3.27	440	118	0.19	5715	9.11	487	257	0.41	14235	22.68
394	65	0.10	2119	3.38	441	118	0.19	5833	9.29	488	247	0.39	14482	23.07
395	43	0.07	2162	3.44	442	111	0.18	5944	9.47	489	239	0.38	14721	23.46
396	57	0.09	2219	3.54	443	111	0.18	6055	9.65	490	249	0.40	14970	23.85
397	58	0.09	2277	3.63	444	123	0.20	6178	9.84	491	256	0.41	15226	24.26
398	55	0.09	2332	3.72	445	131	0.21	6309	10.05	492	271	0.43	15497	24.69
399	45	0.07	2377	3.79	446	132	0.21	6441	10.26	493	280	0.45	15777	25.14
400	66	0.11	2443	3.89	447	141	0.22	6582	10.49	494	250	0.40	16027	25.54
401	42	0.07	2485	3.96	448	150	0.24	6732	10.73	495	286	0.46	16313	25.99
402	57	0.09	2542	4.05	449	148	0.24	6880	10.96	496	271	0.43	16584	26.42
403	60	0.10	2602	4.15	450	135	0.22	7015	11.18	497	250	0.40	16834	26.82
404	55	0.09	2657	4.23	451	129	0.21	7144	11.38	498	280	0.45	17114	27.27
405	66	0.11	2723	4.34	452	148	0.24	7292	11.62	499	281	0.45	17395	27.72
406	63	0.10	2786	4.44	453	165	0.26	7457	11.88	500	292	0.47	17687	28.18
407	59	0.09	2845	4.53	454	173	0.28	7630	12.16	501	283	0.45	17970	28.63
408	65	0.10	2910	4.64	455	146	0.23	7776	12.39	502	289	0.46	18259	29.09
409	68	0.11	2978	4.74	456	149	0.24	7925	12.63	503	309	0.49	18568	29.58
410	62	0.10	3040	4.84	457	158	0.25	8083	12.88	504	282	0.45	18850	30.03
411	65	0.10	3105	4.95	458	155	0.25	8238	13.13	505	316	0.50	19166	30.54
412	59	0.09	3164	5.04	459	168	0.27	8406	13.39	506	310	0.49	19476	31.03
413	83	0.13	3247	5.17	460	161	0.26	8567	13.65	507	304	0.48	19780	31.52
414	73	0.12	3320	5.29	461	159	0.25	8726	13.90	508	330	0.53	20110	32.04
415	75	0.12	3395	5.41	462	169	0.27	8895	14.17	509	292	0.47	20402	32.51
416	75	0.12	3470	5.53	463	197	0.31	9092	14.49	510	296	0.47	20698	32.98
417	88	0.14	3558	5.67	464	210	0.33	9302	14.82	511	310	0.49	21008	33.47
418	71	0.11	3629	5.78	465	166	0.26	9468	15.09	512	306	0.49	21314	33.96
419	79	0.13	3708	5.91	466	160	0.25	9628	15.34	513	343	0.55	21657	34.51
420	84	0.13	3792	6.04	467	165	0.26	9793	15.60	514	330	0.53	21987	35.03
421	65	0.10	3857	6.15	468	195	0.31	9988	15.91	515	371	0.59	22358	35.62
422	88	0.14	3945	6.29	469	194	0.31	10182	16.22	516	321	0.51	22679	36.13
423	81	0.13	4026	6.41	470	178	0.28	10360	16.51	517	342	0.54	23021	36.68
424	71	0.11	4097	6.53	471	211	0.34	10571	16.84	518	312	0.50	23333	37.18
425	91	0.14	4188	6.67	472	216	0.34	10787	17.19	519	324	0.52	23657	37.69
426	86	0.14	4274	6.81	473	199	0.32	10986	17.50	520	321	0.51	23978	38.20
427	84	0.13	4358	6.94	474	201	0.32	11187	17.82	521	314	0.50	24292	38.70
428	109	0.17	4467	7.12	475	204	0.33	11391	18.15	522	347	0.55	24639	39.26
429	101	0.16	4568	7.28	476	214	0.34	11605	18.49	523	372	0.59	25011	39.85
430	102	0.16	4670	7.44	477	234	0.37	11839	18.86	524	298	0.47	25309	40.33
431	93	0.15	4763	7.59	478	213	0.34	12052	19.20	525	312	0.50	25621	40.82
432	101	0.16	4864	7.75	479	223	0.36	12275	19.56	526	276	0.44	25897	41.26
433	100	0.16	4964	7.91	480	230	0.37	12505	19.92	527	345	0.55	26242	41.81

Table 175. Scale Score Distribution, Mathematics Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
528	340	0.54	26582	42.35	575	288	0.46	41897	66.76	622	214	0.34	54182	86.33
529	328	0.52	26910	42.88	576	320	0.51	42217	67.27	623	212	0.34	54394	86.67
530	321	0.51	27231	43.39	577	291	0.46	42508	67.73	624	170	0.27	54564	86.94
531	363	0.58	27594	43.97	578	278	0.44	42786	68.17	625	208	0.33	54772	87.27
532	353	0.56	27947	44.53	579	322	0.51	43108	68.68	626	232	0.37	55004	87.64
533	381	0.61	28328	45.14	580	284	0.45	43392	69.14	627	191	0.30	55195	87.94
534	340	0.54	28668	45.68	581	262	0.42	43654	69.55	628	195	0.31	55390	88.25
535	351	0.56	29019	46.24	582	296	0.47	43950	70.03	629	198	0.32	55588	88.57
536	332	0.53	29351	46.77	583	263	0.42	44213	70.45	630	186	0.30	55774	88.87
537	345	0.55	29696	47.32	584	316	0.50	44529	70.95	631	177	0.28	55951	89.15
538	344	0.55	30040	47.86	585	309	0.49	44838	71.44	632	190	0.30	56141	89.45
539	344	0.55	30384	48.41	586	301	0.48	45139	71.92	633	167	0.27	56308	89.72
540	322	0.51	30706	48.92	587	276	0.44	45415	72.36	634	173	0.28	56481	89.99
541	317	0.51	31023	49.43	588	298	0.47	45713	72.84	635	174	0.28	56655	90.27
542	322	0.51	31345	49.94	589	304	0.48	46017	73.32	636	165	0.26	56820	90.53
543	341	0.54	31686	50.49	590	273	0.43	46290	73.75	637	169	0.27	56989	90.80
544	299	0.48	31985	50.96	591	288	0.46	46578	74.21	638	166	0.26	57155	91.07
545	307	0.49	32292	51.45	592	271	0.43	46849	74.65	639	160	0.25	57315	91.32
546	317	0.51	32609	51.96	593	247	0.39	47096	75.04	640	162	0.26	57477	91.58
547	336	0.54	32945	52.49	594	286	0.46	47382	75.49	641	164	0.26	57641	91.84
548	348	0.55	33293	53.05	595	249	0.40	47631	75.89	642	164	0.26	57805	92.10
549	335	0.53	33628	53.58	596	295	0.47	47926	76.36	643	138	0.22	57943	92.32
550	353	0.56	33981	54.14	597	283	0.45	48209	76.81	644	138	0.22	58081	92.54
551	326	0.52	34307	54.66	598	261	0.42	48470	77.23	645	140	0.22	58221	92.76
552	322	0.51	34629	55.18	599	254	0.40	48724	77.63	646	161	0.26	58382	93.02
553	345	0.55	34974	55.72	600	248	0.40	48972	78.03	647	147	0.23	58529	93.26
554	316	0.50	35290	56.23	601	250	0.40	49222	78.43	648	126	0.20	58655	93.46
555	316	0.50	35606	56.73	602	251	0.40	49473	78.83	649	121	0.19	58776	93.65
556	334	0.53	35940	57.26	603	264	0.42	49737	79.25	650	120	0.19	58896	93.84
557	324	0.52	36264	57.78	604	272	0.43	50009	79.68	651	118	0.19	59014	94.03
558	313	0.50	36577	58.28	605	247	0.39	50256	80.07	652	106	0.17	59120	94.20
559	335	0.53	36912	58.81	606	251	0.40	50507	80.47	653	100	0.16	59220	94.36
560	337	0.54	37249	59.35	607	255	0.41	50762	80.88	654	104	0.17	59324	94.52
561	319	0.51	37568	59.86	608	240	0.38	51002	81.26	655	105	0.17	59429	94.69
562	325	0.52	37893	60.38	609	227	0.36	51229	81.62	656	110	0.18	59539	94.86
563	322	0.51	38215	60.89	610	232	0.37	51461	81.99	657	106	0.17	59645	95.03
564	314	0.50	38529	61.39	611	264	0.42	51725	82.41	658	110	0.18	59755	95.21
565	297	0.47	38826	61.86	612	248	0.40	51973	82.81	659	86	0.14	59841	95.35
566	331	0.53	39157	62.39	613	222	0.35	52195	83.16	660	99	0.16	59940	95.50
567	345	0.55	39502	62.94	614	222	0.35	52417	83.52	661	103	0.16	60043	95.67
568	281	0.45	39783	63.39	615	222	0.35	52639	83.87	662	100	0.16	60143	95.83
569	302	0.48	40085	63.87	616	222	0.35	52861	84.22	663	97	0.15	60240	95.98
570	288	0.46	40373	64.33	617	232	0.37	53093	84.59	664	89	0.14	60329	96.12
571	303	0.48	40676	64.81	618	210	0.33	53303	84.93	665	79	0.13	60408	96.25
572	328	0.52	41004	65.33	619	215	0.34	53518	85.27	666	80	0.13	60488	96.38
573	312	0.50	41316	65.83	620	227	0.36	53745	85.63	667	71	0.11	60559	96.49
574	293	0.47	41609	66.30	621	223	0.36	53968	85.99	668	71	0.11	60630	96.60

Table 175. Scale Score Distribution, Mathematics Grade 6 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
669	76	0.12	60706	96.72	716	7	0.01	62391	99.41	773	10	0.02	62689	99.88
670	78	0.12	60784	96.85	717	14	0.02	62405	99.43	774	5	0.01	62694	99.89
671	80	0.13	60864	96.98	718	11	0.02	62416	99.45	776	2	0.00	62696	99.89
672	65	0.10	60929	97.08	719	9	0.01	62425	99.46	777	2	0.00	62698	99.90
673	61	0.10	60990	97.18	720	14	0.02	62439	99.49	781	8	0.01	62706	99.91
674	65	0.10	61055	97.28	721	10	0.02	62449	99.50	783	1	0.00	62707	99.91
675	65	0.10	61120	97.38	722	9	0.01	62458	99.52	784	1	0.00	62708	99.91
676	62	0.10	61182	97.48	723	12	0.02	62470	99.53	788	2	0.00	62710	99.92
677	54	0.09	61236	97.57	724	5	0.01	62475	99.54	790	24	0.04	62734	99.96
678	50	0.08	61286	97.65	725	6	0.01	62481	99.55	791	3	0.00	62737	99.96
679	43	0.07	61329	97.72	726	12	0.02	62493	99.57	800	1	0.00	62738	99.96
680	35	0.06	61364	97.77	727	11	0.02	62504	99.59	804	1	0.00	62739	99.96
681	45	0.07	61409	97.84	728	6	0.01	62510	99.60	806	4	0.01	62743	99.97
682	52	0.08	61461	97.93	729	9	0.01	62519	99.61	807	4	0.01	62747	99.98
683	43	0.07	61504	98.00	730	4	0.01	62523	99.62	830	15	0.02	62762	100.00
684	55	0.09	61559	98.08	731	10	0.02	62533	99.64					
685	31	0.05	61590	98.13	732	4	0.01	62537	99.64					
686	37	0.06	61627	98.19	733	3	0.00	62540	99.65					
687	35	0.06	61662	98.25	734	4	0.01	62544	99.65					
688	37	0.06	61699	98.31	735	5	0.01	62549	99.66					
689	44	0.07	61743	98.38	736	9	0.01	62558	99.67					
690	44	0.07	61787	98.45	737	7	0.01	62565	99.69					
691	34	0.05	61821	98.50	738	5	0.01	62570	99.69					
692	39	0.06	61860	98.56	739	6	0.01	62576	99.70					
693	38	0.06	61898	98.62	740	2	0.00	62578	99.71					
694	33	0.05	61931	98.68	741	13	0.02	62591	99.73					
695	22	0.04	61953	98.71	742	1	0.00	62592	99.73					
696	26	0.04	61979	98.75	743	4	0.01	62596	99.74					
697	34	0.05	62013	98.81	744	8	0.01	62604	99.75					
698	33	0.05	62046	98.86	745	8	0.01	62612	99.76					
699	29	0.05	62075	98.91	746	7	0.01	62619	99.77					
700	27	0.04	62102	98.95	747	11	0.02	62630	99.79					
701	19	0.03	62121	98.98	748	4	0.01	62634	99.80					
702	24	0.04	62145	99.02	749	3	0.00	62637	99.80					
703	18	0.03	62163	99.05	750	2	0.00	62639	99.80					
704	22	0.04	62185	99.08	751	5	0.01	62644	99.81					
705	27	0.04	62212	99.12	754	2	0.00	62646	99.82					
706	22	0.04	62234	99.16	755	1	0.00	62647	99.82					
707	26	0.04	62260	99.20	756	10	0.02	62657	99.83					
708	12	0.02	62272	99.22	757	4	0.01	62661	99.84					
709	19	0.03	62291	99.25	760	2	0.00	62663	99.84					
710	18	0.03	62309	99.28	762	1	0.00	62664	99.84					
711	20	0.03	62329	99.31	763	1	0.00	62665	99.85					
712	12	0.02	62341	99.33	764	2	0.00	62667	99.85					
713	15	0.02	62356	99.35	765	9	0.01	62676	99.86					
714	14	0.02	62370	99.38	768	1	0.00	62677	99.86					
715	14	0.02	62384	99.40	769	2	0.00	62679	99.87					

Table 176. Scale Score Distribution, Reading Grade 7

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	140	0.23	140	0.23	389	5	0.01	223	0.36	437	8	0.01	454	0.73
301	1	0.00	141	0.23	390	3	0.00	226	0.36	438	9	0.01	463	0.75
305	1	0.00	142	0.23	391	2	0.00	228	0.37	439	7	0.01	470	0.76
308	1	0.00	143	0.23	392	4	0.01	232	0.37	440	5	0.01	475	0.77
310	1	0.00	144	0.23	393	5	0.01	237	0.38	441	8	0.01	483	0.78
318	1	0.00	145	0.23	394	4	0.01	241	0.39	442	9	0.01	492	0.79
319	1	0.00	146	0.24	395	6	0.01	247	0.40	443	10	0.02	502	0.81
330	1	0.00	147	0.24	396	3	0.00	250	0.40	444	4	0.01	506	0.82
331	2	0.00	149	0.24	397	1	0.00	251	0.40	445	8	0.01	514	0.83
333	1	0.00	150	0.24	398	2	0.00	253	0.41	446	8	0.01	522	0.84
334	1	0.00	151	0.24	400	2	0.00	255	0.41	447	15	0.02	537	0.87
335	1	0.00	152	0.25	401	5	0.01	260	0.42	448	15	0.02	552	0.89
336	1	0.00	153	0.25	402	3	0.00	263	0.42	449	15	0.02	567	0.91
337	1	0.00	154	0.25	403	2	0.00	265	0.43	450	13	0.02	580	0.93
340	1	0.00	155	0.25	404	2	0.00	267	0.43	451	10	0.02	590	0.95
342	1	0.00	156	0.25	405	3	0.00	270	0.44	452	8	0.01	598	0.96
345	1	0.00	157	0.25	406	6	0.01	276	0.44	453	17	0.03	615	0.99
346	1	0.00	158	0.25	407	4	0.01	280	0.45	454	11	0.02	626	1.01
347	1	0.00	159	0.26	408	2	0.00	282	0.45	455	11	0.02	637	1.03
348	2	0.00	161	0.26	409	8	0.01	290	0.47	456	9	0.01	646	1.04
351	1	0.00	162	0.26	410	5	0.01	295	0.48	457	15	0.02	661	1.07
352	3	0.00	165	0.27	411	2	0.00	297	0.48	458	10	0.02	671	1.08
354	1	0.00	166	0.27	412	4	0.01	301	0.49	459	9	0.01	680	1.10
355	3	0.00	169	0.27	413	1	0.00	302	0.49	460	16	0.03	696	1.12
359	1	0.00	170	0.27	414	5	0.01	307	0.49	461	18	0.03	714	1.15
360	1	0.00	171	0.28	415	5	0.01	312	0.50	462	12	0.02	726	1.17
361	2	0.00	173	0.28	416	5	0.01	317	0.51	463	16	0.03	742	1.20
362	1	0.00	174	0.28	417	7	0.01	324	0.52	464	14	0.02	756	1.22
366	1	0.00	175	0.28	418	7	0.01	331	0.53	465	18	0.03	774	1.25
367	1	0.00	176	0.28	419	4	0.01	335	0.54	466	18	0.03	792	1.28
368	3	0.00	179	0.29	420	4	0.01	339	0.55	467	19	0.03	811	1.31
369	1	0.00	180	0.29	421	6	0.01	345	0.56	468	22	0.04	833	1.34
370	1	0.00	181	0.29	422	6	0.01	351	0.57	469	15	0.02	848	1.37
371	1	0.00	182	0.29	423	3	0.00	354	0.57	470	14	0.02	862	1.39
373	1	0.00	183	0.29	424	7	0.01	361	0.58	471	26	0.04	888	1.43
374	7	0.01	190	0.31	425	8	0.01	369	0.59	472	15	0.02	903	1.46
375	1	0.00	191	0.31	426	4	0.01	373	0.60	473	9	0.01	912	1.47
377	1	0.00	192	0.31	427	10	0.02	383	0.62	474	26	0.04	938	1.51
378	3	0.00	195	0.31	428	7	0.01	390	0.63	475	17	0.03	955	1.54
379	3	0.00	198	0.32	429	5	0.01	395	0.64	476	22	0.04	977	1.57
380	2	0.00	200	0.32	430	9	0.01	404	0.65	477	22	0.04	999	1.61
381	2	0.00	202	0.33	431	8	0.01	412	0.66	478	14	0.02	1013	1.63
383	7	0.01	209	0.34	432	6	0.01	418	0.67	479	15	0.02	1028	1.66
384	2	0.00	211	0.34	433	11	0.02	429	0.69	480	12	0.02	1040	1.68
385	2	0.00	213	0.34	434	3	0.00	432	0.70	481	22	0.04	1062	1.71
386	1	0.00	214	0.34	435	6	0.01	438	0.71	482	32	0.05	1094	1.76
387	4	0.01	218	0.35	436	8	0.01	446	0.72	483	28	0.05	1122	1.81

Table 176. Scale Score Distribution, Reading Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
484	25	0.04	1147	1.85	531	77	0.12	3234	5.21	578	181	0.29	8767	14.13
485	27	0.04	1174	1.89	532	62	0.10	3296	5.31	579	193	0.31	8960	14.44
486	30	0.05	1204	1.94	533	84	0.14	3380	5.45	580	189	0.30	9149	14.75
487	36	0.06	1240	2.00	534	59	0.10	3439	5.54	581	189	0.30	9338	15.05
488	26	0.04	1266	2.04	535	59	0.10	3498	5.64	582	198	0.32	9536	15.37
489	31	0.05	1297	2.09	536	75	0.12	3573	5.76	583	200	0.32	9736	15.69
490	33	0.05	1330	2.14	537	74	0.12	3647	5.88	584	202	0.33	9938	16.02
491	24	0.04	1354	2.18	538	103	0.17	3750	6.04	585	203	0.33	10141	16.35
492	28	0.05	1382	2.23	539	90	0.15	3840	6.19	586	205	0.33	10346	16.68
493	32	0.05	1414	2.28	540	78	0.13	3918	6.32	587	231	0.37	10577	17.05
494	30	0.05	1444	2.33	541	83	0.13	4001	6.45	588	225	0.36	10802	17.41
495	37	0.06	1481	2.39	542	99	0.16	4100	6.61	589	226	0.36	11028	17.78
496	23	0.04	1504	2.42	543	82	0.13	4182	6.74	590	223	0.36	11251	18.14
497	34	0.05	1538	2.48	544	85	0.14	4267	6.88	591	237	0.38	11488	18.52
498	34	0.05	1572	2.53	545	88	0.14	4355	7.02	592	250	0.40	11738	18.92
499	22	0.04	1594	2.57	546	104	0.17	4459	7.19	593	240	0.39	11978	19.31
500	35	0.06	1629	2.63	547	113	0.18	4572	7.37	594	255	0.41	12233	19.72
501	25	0.04	1654	2.67	548	87	0.14	4659	7.51	595	262	0.42	12495	20.14
502	45	0.07	1699	2.74	549	95	0.15	4754	7.66	596	244	0.39	12739	20.53
503	39	0.06	1738	2.80	550	93	0.15	4847	7.81	597	250	0.40	12989	20.94
504	35	0.06	1773	2.86	551	93	0.15	4940	7.96	598	264	0.43	13253	21.36
505	42	0.07	1815	2.93	552	115	0.19	5055	8.15	599	280	0.45	13533	21.81
506	28	0.05	1843	2.97	553	109	0.18	5164	8.32	600	253	0.41	13786	22.22
507	48	0.08	1891	3.05	554	115	0.19	5279	8.51	601	285	0.46	14071	22.68
508	36	0.06	1927	3.11	555	119	0.19	5398	8.70	602	303	0.49	14374	23.17
509	40	0.06	1967	3.17	556	104	0.17	5502	8.87	603	289	0.47	14663	23.64
510	47	0.08	2014	3.25	557	115	0.19	5617	9.05	604	284	0.46	14947	24.09
511	45	0.07	2059	3.32	558	126	0.20	5743	9.26	605	333	0.54	15280	24.63
512	37	0.06	2096	3.38	559	120	0.19	5863	9.45	606	303	0.49	15583	25.12
513	55	0.09	2151	3.47	560	127	0.20	5990	9.66	607	283	0.46	15866	25.58
514	42	0.07	2193	3.54	561	145	0.23	6135	9.89	608	312	0.50	16178	26.08
515	48	0.08	2241	3.61	562	140	0.23	6275	10.12	609	310	0.50	16488	26.58
516	65	0.10	2306	3.72	563	113	0.18	6388	10.30	610	319	0.51	16807	27.09
517	61	0.10	2367	3.82	564	152	0.25	6540	10.54	611	337	0.54	17144	27.64
518	60	0.10	2427	3.91	565	140	0.23	6680	10.77	612	346	0.56	17490	28.19
519	58	0.09	2485	4.01	566	135	0.22	6815	10.99	613	329	0.53	17819	28.72
520	52	0.08	2537	4.09	567	143	0.23	6958	11.22	614	327	0.53	18146	29.25
521	71	0.11	2608	4.20	568	148	0.24	7106	11.45	615	349	0.56	18495	29.81
522	64	0.10	2672	4.31	569	141	0.23	7247	11.68	616	338	0.54	18833	30.36
523	41	0.07	2713	4.37	570	169	0.27	7416	11.95	617	338	0.54	19171	30.90
524	70	0.11	2783	4.49	571	170	0.27	7586	12.23	618	374	0.60	19545	31.51
525	57	0.09	2840	4.58	572	154	0.25	7740	12.48	619	340	0.55	19885	32.05
526	65	0.10	2905	4.68	573	185	0.30	7925	12.77	620	405	0.65	20290	32.71
527	56	0.09	2961	4.77	574	163	0.26	8088	13.04	621	377	0.61	20667	33.31
528	60	0.10	3021	4.87	575	150	0.24	8238	13.28	622	383	0.62	21050	33.93
529	57	0.09	3078	4.96	576	180	0.29	8418	13.57	623	394	0.64	21444	34.57
530	79	0.13	3157	5.09	577	168	0.27	8586	13.84	624	364	0.59	21808	35.15

Table 176. Scale Score Distribution, Reading Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
625	396	0.64	22204	35.79	672	412	0.66	42563	68.61	719	194	0.31	57338	92.43
626	389	0.63	22593	36.42	673	427	0.69	42990	69.30	720	195	0.31	57533	92.74
627	396	0.64	22989	37.06	674	382	0.62	43372	69.91	721	198	0.32	57731	93.06
628	424	0.68	23413	37.74	675	449	0.72	43821	70.64	722	188	0.30	57919	93.36
629	363	0.59	23776	38.33	676	420	0.68	44241	71.32	723	193	0.31	58112	93.67
630	386	0.62	24162	38.95	677	408	0.66	44649	71.97	724	162	0.26	58274	93.94
631	422	0.68	24584	39.63	678	386	0.62	45035	72.59	725	166	0.27	58440	94.20
632	421	0.68	25005	40.31	679	417	0.67	45452	73.27	726	155	0.25	58595	94.45
633	436	0.70	25441	41.01	680	433	0.70	45885	73.97	727	138	0.22	58733	94.68
634	400	0.64	25841	41.65	681	417	0.67	46302	74.64	728	129	0.21	58862	94.88
635	387	0.62	26228	42.28	682	396	0.64	46698	75.28	729	123	0.20	58985	95.08
636	410	0.66	26638	42.94	683	366	0.59	47064	75.87	730	136	0.22	59121	95.30
637	415	0.67	27053	43.61	684	363	0.59	47427	76.45	731	135	0.22	59256	95.52
638	411	0.66	27464	44.27	685	355	0.57	47782	77.02	732	128	0.21	59384	95.73
639	412	0.66	27876	44.94	686	366	0.59	48148	77.61	733	108	0.17	59492	95.90
640	415	0.67	28291	45.60	687	343	0.55	48491	78.17	734	110	0.18	59602	96.08
641	467	0.75	28758	46.36	688	370	0.60	48861	78.76	735	110	0.18	59712	96.25
642	425	0.69	29183	47.04	689	336	0.54	49197	79.30	736	105	0.17	59817	96.42
643	435	0.70	29618	47.74	690	354	0.57	49551	79.87	737	95	0.15	59912	96.58
644	455	0.73	30073	48.48	691	356	0.57	49907	80.45	738	97	0.16	60009	96.73
645	472	0.76	30545	49.24	692	374	0.60	50281	81.05	739	112	0.18	60121	96.91
646	403	0.65	30948	49.89	693	324	0.52	50605	81.57	740	92	0.15	60213	97.06
647	440	0.71	31388	50.60	694	327	0.53	50932	82.10	741	88	0.14	60301	97.20
648	455	0.73	31843	51.33	695	343	0.55	51275	82.65	742	86	0.14	60387	97.34
649	442	0.71	32285	52.04	696	326	0.53	51601	83.18	743	71	0.11	60458	97.46
650	433	0.70	32718	52.74	697	325	0.52	51926	83.70	744	78	0.13	60536	97.58
651	493	0.79	33211	53.54	698	269	0.43	52195	84.14	745	61	0.10	60597	97.68
652	425	0.69	33636	54.22	699	324	0.52	52519	84.66	746	80	0.13	60677	97.81
653	426	0.69	34062	54.91	700	300	0.48	52819	85.14	747	65	0.10	60742	97.91
654	412	0.66	34474	55.57	701	289	0.47	53108	85.61	748	65	0.10	60807	98.02
655	459	0.74	34933	56.31	702	291	0.47	53399	86.08	749	56	0.09	60863	98.11
656	453	0.73	35386	57.04	703	267	0.43	53666	86.51	750	70	0.11	60933	98.22
657	439	0.71	35825	57.75	704	265	0.43	53931	86.94	751	53	0.09	60986	98.31
658	420	0.68	36245	58.43	705	260	0.42	54191	87.35	752	57	0.09	61043	98.40
659	474	0.76	36719	59.19	706	269	0.43	54460	87.79	753	66	0.11	61109	98.51
660	450	0.73	37169	59.92	707	248	0.40	54708	88.19	754	40	0.06	61149	98.57
661	450	0.73	37619	60.64	708	236	0.38	54944	88.57	755	47	0.08	61196	98.65
662	462	0.74	38081	61.39	709	242	0.39	55186	88.96	756	34	0.05	61230	98.70
663	471	0.76	38552	62.14	710	228	0.37	55414	89.33	757	44	0.07	61274	98.77
664	470	0.76	39022	62.90	711	242	0.39	55656	89.72	758	33	0.05	61307	98.82
665	468	0.75	39490	63.66	712	219	0.35	55875	90.07	759	45	0.07	61352	98.90
666	427	0.69	39917	64.34	713	235	0.38	56110	90.45	760	34	0.05	61386	98.95
667	453	0.73	40370	65.08	714	218	0.35	56328	90.80	761	34	0.05	61420	99.01
668	474	0.76	40844	65.84	715	207	0.33	56535	91.13	762	37	0.06	61457	99.07
669	444	0.72	41288	66.55	716	210	0.34	56745	91.47	763	25	0.04	61482	99.11
670	421	0.68	41709	67.23	717	202	0.33	56947	91.80	764	23	0.04	61505	99.14
671	442	0.71	42151	67.95	718	197	0.32	57144	92.11	765	26	0.04	61531	99.19

Table 176. Scale Score Distribution, Reading Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
766	25	0.04	61556	99.23	815	1	0.00	62003	99.95
767	25	0.04	61581	99.27	816	2	0.00	62005	99.95
768	23	0.04	61604	99.30	817	1	0.00	62006	99.95
769	28	0.05	61632	99.35	818	3	0.00	62009	99.96
770	23	0.04	61655	99.39	819	2	0.00	62011	99.96
771	23	0.04	61678	99.42	820	1	0.00	62012	99.96
772	23	0.04	61701	99.46	821	1	0.00	62013	99.96
773	27	0.04	61728	99.50	822	1	0.00	62014	99.96
774	24	0.04	61752	99.54	823	1	0.00	62015	99.97
775	21	0.03	61773	99.58	825	1	0.00	62016	99.97
776	12	0.02	61785	99.60	829	3	0.00	62019	99.97
777	10	0.02	61795	99.61	830	1	0.00	62020	99.97
778	16	0.03	61811	99.64	835	1	0.00	62021	99.98
779	14	0.02	61825	99.66	836	1	0.00	62022	99.98
780	9	0.01	61834	99.67	837	2	0.00	62024	99.98
781	8	0.01	61842	99.69	838	1	0.00	62025	99.98
782	9	0.01	61851	99.70	840	4	0.01	62029	99.99
783	11	0.02	61862	99.72	841	1	0.00	62030	99.99
784	7	0.01	61869	99.73	846	1	0.00	62031	99.99
785	8	0.01	61877	99.74	848	1	0.00	62032	99.99
786	10	0.02	61887	99.76	862	1	0.00	62033	100.00
787	3	0.00	61890	99.76	863	1	0.00	62034	100.00
788	12	0.02	61902	99.78	865	1	0.00	62035	100.00
789	11	0.02	61913	99.80	889	1	0.00	62036	100.00
790	11	0.02	61924	99.82					
791	6	0.01	61930	99.83					
792	4	0.01	61934	99.84					
793	7	0.01	61941	99.85					
794	3	0.00	61944	99.85					
795	2	0.00	61946	99.85					
797	3	0.00	61949	99.86					
798	4	0.01	61953	99.87					
799	6	0.01	61959	99.88					
800	3	0.00	61962	99.88					
801	5	0.01	61967	99.89					
802	4	0.01	61971	99.90					
803	1	0.00	61972	99.90					
804	5	0.01	61977	99.90					
805	2	0.00	61979	99.91					
806	5	0.01	61984	99.92					
807	5	0.01	61989	99.92					
808	2	0.00	61991	99.93					
809	2	0.00	61993	99.93					
811	1	0.00	61994	99.93					
812	4	0.01	61998	99.94					
813	2	0.00	62000	99.94					
814	2	0.00	62002	99.95					

Table 177. Scale Score Distribution, Writing Grade 7

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
240	26	0.04	26	0.04	322	1	0.00	92	0.15	371	5	0.01	337	0.54
242	1	0.00	27	0.04	324	3	0.00	95	0.15	372	9	0.01	346	0.56
245	1	0.00	28	0.05	325	3	0.00	98	0.16	373	14	0.02	360	0.58
248	1	0.00	29	0.05	326	3	0.00	101	0.16	374	7	0.01	367	0.59
249	1	0.00	30	0.05	327	4	0.01	105	0.17	375	15	0.02	382	0.62
253	1	0.00	31	0.05	329	5	0.01	110	0.18	376	9	0.01	391	0.63
255	1	0.00	32	0.05	330	4	0.01	114	0.18	377	13	0.02	404	0.65
256	2	0.00	34	0.05	331	5	0.01	119	0.19	378	11	0.02	415	0.67
258	1	0.00	35	0.06	332	5	0.01	124	0.20	379	5	0.01	420	0.68
260	1	0.00	36	0.06	333	4	0.01	128	0.21	380	12	0.02	432	0.70
261	2	0.00	38	0.06	334	4	0.01	132	0.21	381	9	0.01	441	0.71
264	1	0.00	39	0.06	335	3	0.00	135	0.22	382	14	0.02	455	0.73
266	2	0.00	41	0.07	336	5	0.01	140	0.23	383	19	0.03	474	0.76
267	1	0.00	42	0.07	337	3	0.00	143	0.23	384	11	0.02	485	0.78
270	1	0.00	43	0.07	338	4	0.01	147	0.24	385	11	0.02	496	0.80
273	1	0.00	44	0.07	339	2	0.00	149	0.24	386	10	0.02	506	0.82
274	1	0.00	45	0.07	340	3	0.00	152	0.25	387	7	0.01	513	0.83
277	1	0.00	46	0.07	341	6	0.01	158	0.25	388	14	0.02	527	0.85
278	1	0.00	47	0.08	342	8	0.01	166	0.27	389	12	0.02	539	0.87
281	1	0.00	48	0.08	343	5	0.01	171	0.28	390	16	0.03	555	0.90
282	1	0.00	49	0.08	344	4	0.01	175	0.28	391	8	0.01	563	0.91
286	1	0.00	50	0.08	345	5	0.01	180	0.29	392	18	0.03	581	0.94
289	2	0.00	52	0.08	346	5	0.01	185	0.30	393	25	0.04	606	0.98
290	2	0.00	54	0.09	347	6	0.01	191	0.31	394	15	0.02	621	1.00
291	1	0.00	55	0.09	348	6	0.01	197	0.32	395	19	0.03	640	1.03
294	1	0.00	56	0.09	349	5	0.01	202	0.33	396	19	0.03	659	1.06
296	1	0.00	57	0.09	350	3	0.00	205	0.33	397	30	0.05	689	1.11
297	3	0.00	60	0.10	351	2	0.00	207	0.33	398	26	0.04	715	1.15
298	1	0.00	61	0.10	352	2	0.00	209	0.34	399	25	0.04	740	1.19
300	1	0.00	62	0.10	353	2	0.00	211	0.34	400	24	0.04	764	1.23
301	1	0.00	63	0.10	354	5	0.01	216	0.35	401	21	0.03	785	1.27
302	1	0.00	64	0.10	355	8	0.01	224	0.36	402	19	0.03	804	1.30
303	3	0.00	67	0.11	356	1	0.00	225	0.36	403	18	0.03	822	1.33
304	1	0.00	68	0.11	357	7	0.01	232	0.37	404	26	0.04	848	1.37
305	1	0.00	69	0.11	358	6	0.01	238	0.38	405	26	0.04	874	1.41
306	2	0.00	71	0.11	359	6	0.01	244	0.39	406	28	0.05	902	1.46
307	2	0.00	73	0.12	360	7	0.01	251	0.41	407	26	0.04	928	1.50
308	1	0.00	74	0.12	361	6	0.01	257	0.41	408	33	0.05	961	1.55
310	2	0.00	76	0.12	362	16	0.03	273	0.44	409	33	0.05	994	1.60
311	2	0.00	78	0.13	363	7	0.01	280	0.45	410	29	0.05	1023	1.65
314	1	0.00	79	0.13	364	7	0.01	287	0.46	411	35	0.06	1058	1.71
315	1	0.00	80	0.13	365	3	0.00	290	0.47	412	23	0.04	1081	1.74
316	2	0.00	82	0.13	366	10	0.02	300	0.48	413	38	0.06	1119	1.81
317	2	0.00	84	0.14	367	7	0.01	307	0.50	414	20	0.03	1139	1.84
319	1	0.00	85	0.14	368	7	0.01	314	0.51	415	29	0.05	1168	1.88
320	2	0.00	87	0.14	369	11	0.02	325	0.52	416	34	0.05	1202	1.94
321	4	0.01	91	0.15	370	7	0.01	332	0.54	417	42	0.07	1244	2.01

Table 177. Scale Score Distribution, Writing Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
418	30	0.05	1274	2.06	465	158	0.25	4966	8.01	512	301	0.49	14826	23.93
419	33	0.05	1307	2.11	466	140	0.23	5106	8.24	513	289	0.47	15115	24.39
420	25	0.04	1332	2.15	467	139	0.22	5245	8.46	514	297	0.48	15412	24.87
421	33	0.05	1365	2.20	468	158	0.25	5403	8.72	515	320	0.52	15732	25.39
422	35	0.06	1400	2.26	469	148	0.24	5551	8.96	516	325	0.52	16057	25.91
423	53	0.09	1453	2.34	470	148	0.24	5699	9.20	517	324	0.52	16381	26.44
424	45	0.07	1498	2.42	471	146	0.24	5845	9.43	518	311	0.50	16692	26.94
425	34	0.05	1532	2.47	472	142	0.23	5987	9.66	519	326	0.53	17018	27.46
426	60	0.10	1592	2.57	473	128	0.21	6115	9.87	520	330	0.53	17348	28.00
427	47	0.08	1639	2.64	474	180	0.29	6295	10.16	521	333	0.54	17681	28.53
428	52	0.08	1691	2.73	475	177	0.29	6472	10.44	522	313	0.51	17994	29.04
429	48	0.08	1739	2.81	476	162	0.26	6634	10.71	523	327	0.53	18321	29.57
430	43	0.07	1782	2.88	477	167	0.27	6801	10.98	524	309	0.50	18630	30.06
431	47	0.08	1829	2.95	478	184	0.30	6985	11.27	525	337	0.54	18967	30.61
432	42	0.07	1871	3.02	479	200	0.32	7185	11.59	526	336	0.54	19303	31.15
433	65	0.10	1936	3.12	480	185	0.30	7370	11.89	527	365	0.59	19668	31.74
434	51	0.08	1987	3.21	481	199	0.32	7569	12.21	528	387	0.62	20055	32.36
435	70	0.11	2057	3.32	482	183	0.30	7752	12.51	529	393	0.63	20448	33.00
436	63	0.10	2120	3.42	483	172	0.28	7924	12.79	530	342	0.55	20790	33.55
437	53	0.09	2173	3.51	484	171	0.28	8095	13.06	531	382	0.62	21172	34.17
438	67	0.11	2240	3.61	485	199	0.32	8294	13.38	532	351	0.57	21523	34.73
439	69	0.11	2309	3.73	486	207	0.33	8501	13.72	533	346	0.56	21869	35.29
440	82	0.13	2391	3.86	487	202	0.33	8703	14.04	534	361	0.58	22230	35.87
441	68	0.11	2459	3.97	488	206	0.33	8909	14.38	535	372	0.60	22602	36.47
442	61	0.10	2520	4.07	489	190	0.31	9099	14.68	536	343	0.55	22945	37.03
443	80	0.13	2600	4.20	490	199	0.32	9298	15.00	537	362	0.58	23307	37.61
444	75	0.12	2675	4.32	491	208	0.34	9506	15.34	538	362	0.58	23669	38.20
445	93	0.15	2768	4.47	492	209	0.34	9715	15.68	539	384	0.62	24053	38.82
446	79	0.13	2847	4.59	493	198	0.32	9913	16.00	540	401	0.65	24454	39.46
447	80	0.13	2927	4.72	494	211	0.34	10124	16.34	541	386	0.62	24840	40.09
448	77	0.12	3004	4.85	495	252	0.41	10376	16.74	542	369	0.60	25209	40.68
449	105	0.17	3109	5.02	496	248	0.40	10624	17.14	543	390	0.63	25599	41.31
450	91	0.15	3200	5.16	497	247	0.40	10871	17.54	544	380	0.61	25979	41.92
451	97	0.16	3297	5.32	498	246	0.40	11117	17.94	545	386	0.62	26365	42.55
452	97	0.16	3394	5.48	499	243	0.39	11360	18.33	546	407	0.66	26772	43.20
453	89	0.14	3483	5.62	500	224	0.36	11584	18.69	547	370	0.60	27142	43.80
454	102	0.16	3585	5.79	501	251	0.41	11835	19.10	548	377	0.61	27519	44.41
455	95	0.15	3680	5.94	502	277	0.45	12112	19.55	549	410	0.66	27929	45.07
456	96	0.15	3776	6.09	503	269	0.43	12381	19.98	550	373	0.60	28302	45.67
457	121	0.20	3897	6.29	504	244	0.39	12625	20.37	551	378	0.61	28680	46.28
458	110	0.18	4007	6.47	505	264	0.43	12889	20.80	552	366	0.59	29046	46.87
459	142	0.23	4149	6.70	506	249	0.40	13138	21.20	553	399	0.64	29445	47.52
460	122	0.20	4271	6.89	507	287	0.46	13425	21.66	554	398	0.64	29843	48.16
461	114	0.18	4385	7.08	508	266	0.43	13691	22.09	555	407	0.66	30250	48.82
462	139	0.22	4524	7.30	509	268	0.43	13959	22.53	556	400	0.65	30650	49.46
463	140	0.23	4664	7.53	510	286	0.46	14245	22.99	557	381	0.61	31031	50.08
464	144	0.23	4808	7.76	511	280	0.45	14525	23.44	558	365	0.59	31396	50.67

Table 177. Scale Score Distribution, Writing Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
559	388	0.63	31784	51.29	606	285	0.46	47560	76.75	653	122	0.20	56805	91.67
560	390	0.63	32174	51.92	607	246	0.40	47806	77.15	654	115	0.19	56920	91.86
561	379	0.61	32553	52.53	608	249	0.40	48055	77.55	655	126	0.20	57046	92.06
562	383	0.62	32936	53.15	609	279	0.45	48334	78.00	656	112	0.18	57158	92.24
563	399	0.64	33335	53.79	610	274	0.44	48608	78.44	657	122	0.20	57280	92.44
564	374	0.60	33709	54.40	611	280	0.45	48888	78.89	658	123	0.20	57403	92.63
565	419	0.68	34128	55.07	612	245	0.40	49133	79.29	659	116	0.19	57519	92.82
566	366	0.59	34494	55.67	613	240	0.39	49373	79.68	660	112	0.18	57631	93.00
567	368	0.59	34862	56.26	614	220	0.36	49593	80.03	661	113	0.18	57744	93.19
568	383	0.62	35245	56.88	615	264	0.43	49857	80.46	662	109	0.18	57853	93.36
569	391	0.63	35636	57.51	616	254	0.41	50111	80.87	663	89	0.14	57942	93.50
570	375	0.61	36011	58.11	617	252	0.41	50363	81.27	664	82	0.13	58024	93.64
571	369	0.60	36380	58.71	618	213	0.34	50576	81.62	665	102	0.16	58126	93.80
572	350	0.56	36730	59.27	619	221	0.36	50797	81.97	666	116	0.19	58242	93.99
573	373	0.60	37103	59.88	620	238	0.38	51035	82.36	667	82	0.13	58324	94.12
574	350	0.56	37453	60.44	621	206	0.33	51241	82.69	668	77	0.12	58401	94.25
575	338	0.55	37791	60.99	622	212	0.34	51453	83.03	669	105	0.17	58506	94.41
576	338	0.55	38129	61.53	623	218	0.35	51671	83.38	670	87	0.14	58593	94.56
577	347	0.56	38476	62.09	624	241	0.39	51912	83.77	671	102	0.16	58695	94.72
578	350	0.56	38826	62.66	625	185	0.30	52097	84.07	672	91	0.15	58786	94.87
579	348	0.56	39174	63.22	626	200	0.32	52297	84.39	673	79	0.13	58865	94.99
580	308	0.50	39482	63.71	627	208	0.34	52505	84.73	674	101	0.16	58966	95.16
581	320	0.52	39802	64.23	628	197	0.32	52702	85.05	675	64	0.10	59030	95.26
582	327	0.53	40129	64.76	629	192	0.31	52894	85.36	676	73	0.12	59103	95.38
583	353	0.57	40482	65.33	630	183	0.30	53077	85.65	677	76	0.12	59179	95.50
584	334	0.54	40816	65.87	631	229	0.37	53306	86.02	678	81	0.13	59260	95.63
585	317	0.51	41133	66.38	632	189	0.31	53495	86.33	679	86	0.14	59346	95.77
586	338	0.55	41471	66.92	633	182	0.29	53677	86.62	680	82	0.13	59428	95.90
587	349	0.56	41820	67.49	634	169	0.27	53846	86.89	681	61	0.10	59489	96.00
588	331	0.53	42151	68.02	635	169	0.27	54015	87.17	682	49	0.08	59538	96.08
589	314	0.51	42465	68.53	636	188	0.30	54203	87.47	683	62	0.10	59600	96.18
590	343	0.55	42808	69.08	637	166	0.27	54369	87.74	684	58	0.09	59658	96.27
591	309	0.50	43117	69.58	638	162	0.26	54531	88.00	685	57	0.09	59715	96.37
592	319	0.51	43436	70.10	639	174	0.28	54705	88.28	686	72	0.12	59787	96.48
593	307	0.50	43743	70.59	640	185	0.30	54890	88.58	687	61	0.10	59848	96.58
594	340	0.55	44083	71.14	641	165	0.27	55055	88.85	688	48	0.08	59896	96.66
595	276	0.45	44359	71.58	642	153	0.25	55208	89.09	689	60	0.10	59956	96.75
596	305	0.49	44664	72.08	643	148	0.24	55356	89.33	690	59	0.10	60015	96.85
597	295	0.48	44959	72.55	644	137	0.22	55493	89.55	691	48	0.08	60063	96.93
598	289	0.47	45248	73.02	645	156	0.25	55649	89.80	692	56	0.09	60119	97.02
599	309	0.50	45557	73.52	646	177	0.29	55826	90.09	693	63	0.10	60182	97.12
600	325	0.52	45882	74.04	647	130	0.21	55956	90.30	694	52	0.08	60234	97.20
601	275	0.44	46157	74.49	648	155	0.25	56111	90.55	695	43	0.07	60277	97.27
602	272	0.44	46429	74.93	649	148	0.24	56259	90.79	696	42	0.07	60319	97.34
603	277	0.45	46706	75.37	650	148	0.24	56407	91.03	697	40	0.06	60359	97.41
604	301	0.49	47007	75.86	651	152	0.25	56559	91.27	698	49	0.08	60408	97.48
605	268	0.43	47275	76.29	652	124	0.20	56683	91.47	699	50	0.08	60458	97.56

Table 177. Scale Score Distribution, Writing Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
700	34	0.05	60492	97.62	747	6	0.01	61541	99.31	797	1	0.00	61849	99.81
701	39	0.06	60531	97.68	748	7	0.01	61548	99.32	799	2	0.00	61851	99.81
702	34	0.05	60565	97.74	749	13	0.02	61561	99.34	800	2	0.00	61853	99.82
703	32	0.05	60597	97.79	750	16	0.03	61577	99.37	801	3	0.00	61856	99.82
704	41	0.07	60638	97.86	751	13	0.02	61590	99.39	802	4	0.01	61860	99.83
705	23	0.04	60661	97.89	752	5	0.01	61595	99.40	803	4	0.01	61864	99.83
706	38	0.06	60699	97.95	753	4	0.01	61599	99.41	804	1	0.00	61865	99.84
707	26	0.04	60725	98.00	754	5	0.01	61604	99.41	805	4	0.01	61869	99.84
708	54	0.09	60779	98.08	755	10	0.02	61614	99.43	806	8	0.01	61877	99.85
709	28	0.05	60807	98.13	756	4	0.01	61618	99.44	807	1	0.00	61878	99.86
710	23	0.04	60830	98.17	757	16	0.03	61634	99.46	808	1	0.00	61879	99.86
711	27	0.04	60857	98.21	758	9	0.01	61643	99.48	811	5	0.01	61884	99.87
712	36	0.06	60893	98.27	759	2	0.00	61645	99.48	812	3	0.00	61887	99.87
713	23	0.04	60916	98.30	760	6	0.01	61651	99.49	813	1	0.00	61888	99.87
714	33	0.05	60949	98.36	761	11	0.02	61662	99.51	816	3	0.00	61891	99.88
715	31	0.05	60980	98.41	762	7	0.01	61669	99.52	817	2	0.00	61893	99.88
716	15	0.02	60995	98.43	763	18	0.03	61687	99.55	818	4	0.01	61897	99.89
717	29	0.05	61024	98.48	764	9	0.01	61696	99.56	820	1	0.00	61898	99.89
718	24	0.04	61048	98.52	765	6	0.01	61702	99.57	822	1	0.00	61899	99.89
719	20	0.03	61068	98.55	766	8	0.01	61710	99.59	824	1	0.00	61900	99.89
720	38	0.06	61106	98.61	767	12	0.02	61722	99.60	827	2	0.00	61902	99.90
721	34	0.05	61140	98.67	768	10	0.02	61732	99.62	828	1	0.00	61903	99.90
722	13	0.02	61153	98.69	769	2	0.00	61734	99.62	831	1	0.00	61904	99.90
723	34	0.05	61187	98.74	770	13	0.02	61747	99.64	838	1	0.00	61905	99.90
724	24	0.04	61211	98.78	771	3	0.00	61750	99.65	842	3	0.00	61908	99.90
725	18	0.03	61229	98.81	772	4	0.01	61754	99.66	844	1	0.00	61909	99.91
726	12	0.02	61241	98.83	773	6	0.01	61760	99.67	845	29	0.05	61938	99.95
727	19	0.03	61260	98.86	774	8	0.01	61768	99.68	849	2	0.00	61940	99.96
728	14	0.02	61274	98.88	775	6	0.01	61774	99.69	855	2	0.00	61942	99.96
729	13	0.02	61287	98.90	776	1	0.00	61775	99.69	858	1	0.00	61943	99.96
730	16	0.03	61303	98.93	777	4	0.01	61779	99.70	861	2	0.00	61945	99.96
731	14	0.02	61317	98.95	779	11	0.02	61790	99.71	862	3	0.00	61948	99.97
732	7	0.01	61324	98.96	780	5	0.01	61795	99.72	872	1	0.00	61949	99.97
733	15	0.02	61339	98.99	781	1	0.00	61796	99.72	875	2	0.00	61951	99.97
734	22	0.04	61361	99.02	782	3	0.00	61799	99.73	883	2	0.00	61953	99.98
735	14	0.02	61375	99.04	783	1	0.00	61800	99.73	890	14	0.02	61967	100.00
736	16	0.03	61391	99.07	785	1	0.00	61801	99.73					
737	25	0.04	61416	99.11	786	3	0.00	61804	99.74					
738	15	0.02	61431	99.14	787	4	0.01	61808	99.74					
739	14	0.02	61445	99.16	788	1	0.00	61809	99.75					
740	22	0.04	61467	99.19	789	6	0.01	61815	99.75					
741	10	0.02	61477	99.21	790	1	0.00	61816	99.76					
742	11	0.02	61488	99.23	791	3	0.00	61819	99.76					
743	13	0.02	61501	99.25	792	3	0.00	61822	99.77					
744	12	0.02	61513	99.27	793	5	0.01	61827	99.77					
745	12	0.02	61525	99.29	795	5	0.01	61832	99.78					
746	10	0.02	61535	99.30	796	16	0.03	61848	99.81					

Table 178. Scale Score Distribution, Mathematics Grade 7

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
280	363	0.58	363	0.58	329	4	0.01	542	0.87	376	16	0.03	1066	1.72
281	3	0.00	366	0.59	330	6	0.01	548	0.88	377	22	0.04	1088	1.75
282	3	0.00	369	0.59	331	13	0.02	561	0.90	378	17	0.03	1105	1.78
283	2	0.00	371	0.60	332	8	0.01	569	0.92	379	14	0.02	1119	1.80
284	4	0.01	375	0.60	333	7	0.01	576	0.93	380	19	0.03	1138	1.83
285	2	0.00	377	0.61	334	10	0.02	586	0.94	381	16	0.03	1154	1.86
286	6	0.01	383	0.62	335	10	0.02	596	0.96	382	25	0.04	1179	1.90
287	5	0.01	388	0.63	336	3	0.00	599	0.96	383	25	0.04	1204	1.94
288	2	0.00	390	0.63	337	6	0.01	605	0.97	384	18	0.03	1222	1.97
289	7	0.01	397	0.64	338	6	0.01	611	0.98	385	22	0.04	1244	2.00
290	1	0.00	398	0.64	339	11	0.02	622	1.00	386	14	0.02	1258	2.03
292	3	0.00	401	0.65	340	3	0.00	625	1.01	387	21	0.03	1279	2.06
293	4	0.01	405	0.65	341	6	0.01	631	1.02	388	21	0.03	1300	2.09
294	1	0.00	406	0.65	342	4	0.01	635	1.02	389	29	0.05	1329	2.14
295	2	0.00	408	0.66	343	9	0.01	644	1.04	390	30	0.05	1359	2.19
296	2	0.00	410	0.66	344	7	0.01	651	1.05	391	29	0.05	1388	2.24
298	5	0.01	415	0.67	345	8	0.01	659	1.06	392	32	0.05	1420	2.29
299	2	0.00	417	0.67	346	6	0.01	665	1.07	393	37	0.06	1457	2.35
300	2	0.00	419	0.67	347	8	0.01	673	1.08	394	33	0.05	1490	2.40
301	2	0.00	421	0.68	348	12	0.02	685	1.10	395	23	0.04	1513	2.44
302	1	0.00	422	0.68	349	8	0.01	693	1.12	396	21	0.03	1534	2.47
303	3	0.00	425	0.68	350	13	0.02	706	1.14	397	24	0.04	1558	2.51
304	2	0.00	427	0.69	351	6	0.01	712	1.15	398	30	0.05	1588	2.56
305	3	0.00	430	0.69	352	7	0.01	719	1.16	399	37	0.06	1625	2.62
306	4	0.01	434	0.70	353	8	0.01	727	1.17	400	27	0.04	1652	2.66
307	5	0.01	439	0.71	354	12	0.02	739	1.19	401	30	0.05	1682	2.71
308	4	0.01	443	0.71	355	14	0.02	753	1.21	402	25	0.04	1707	2.75
309	4	0.01	447	0.72	356	7	0.01	760	1.22	403	34	0.05	1741	2.80
310	5	0.01	452	0.73	357	10	0.02	770	1.24	404	27	0.04	1768	2.85
311	3	0.00	455	0.73	358	18	0.03	788	1.27	405	27	0.04	1795	2.89
312	8	0.01	463	0.75	359	10	0.02	798	1.29	406	38	0.06	1833	2.95
313	6	0.01	469	0.76	360	12	0.02	810	1.30	407	35	0.06	1868	3.01
314	10	0.02	479	0.77	361	10	0.02	820	1.32	408	45	0.07	1913	3.08
315	3	0.00	482	0.78	362	16	0.03	836	1.35	409	47	0.08	1960	3.16
316	8	0.01	490	0.79	363	17	0.03	853	1.37	410	37	0.06	1997	3.22
317	3	0.00	493	0.79	364	15	0.02	868	1.40	411	35	0.06	2032	3.27
318	6	0.01	499	0.80	365	17	0.03	885	1.43	412	36	0.06	2068	3.33
319	3	0.00	502	0.81	366	18	0.03	903	1.45	413	32	0.05	2100	3.38
320	2	0.00	504	0.81	367	7	0.01	910	1.47	414	37	0.06	2137	3.44
321	5	0.01	509	0.82	368	12	0.02	922	1.49	415	33	0.05	2170	3.50
322	3	0.00	512	0.82	369	22	0.04	944	1.52	416	39	0.06	2209	3.56
323	3	0.00	515	0.83	370	20	0.03	964	1.55	417	48	0.08	2257	3.64
324	5	0.01	520	0.84	371	19	0.03	983	1.58	418	35	0.06	2292	3.69
325	5	0.01	525	0.85	372	20	0.03	1003	1.62	419	42	0.07	2334	3.76
326	6	0.01	531	0.86	373	18	0.03	1021	1.64	420	47	0.08	2381	3.84
327	4	0.01	535	0.86	374	14	0.02	1035	1.67	421	54	0.09	2435	3.92
328	3	0.00	538	0.87	375	15	0.02	1050	1.69	422	55	0.09	2490	4.01

Table 178. Scale Score Distribution, Mathematics Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
423	59	0.10	2549	4.11	470	124	0.20	6455	10.40	517	270	0.43	15546	25.04
424	41	0.07	2590	4.17	471	134	0.22	6589	10.61	518	287	0.46	15833	25.51
425	49	0.08	2639	4.25	472	110	0.18	6699	10.79	519	250	0.40	16083	25.91
426	57	0.09	2696	4.34	473	160	0.26	6859	11.05	520	260	0.42	16343	26.33
427	50	0.08	2746	4.42	474	141	0.23	7000	11.28	521	270	0.43	16613	26.76
428	55	0.09	2801	4.51	475	120	0.19	7120	11.47	522	267	0.43	16880	27.19
429	54	0.09	2855	4.60	476	148	0.24	7268	11.71	523	266	0.43	17146	27.62
430	49	0.08	2904	4.68	477	145	0.23	7413	11.94	524	286	0.46	17432	28.08
431	58	0.09	2962	4.77	478	151	0.24	7564	12.19	525	271	0.44	17703	28.52
432	50	0.08	3012	4.85	479	145	0.23	7709	12.42	526	268	0.43	17971	28.95
433	61	0.10	3073	4.95	480	138	0.22	7847	12.64	527	272	0.44	18243	29.39
434	69	0.11	3142	5.06	481	164	0.26	8011	12.91	528	273	0.44	18516	29.83
435	70	0.11	3212	5.17	482	180	0.29	8191	13.20	529	281	0.45	18797	30.28
436	61	0.10	3273	5.27	483	178	0.29	8369	13.48	530	268	0.43	19065	30.71
437	68	0.11	3341	5.38	484	153	0.25	8522	13.73	531	298	0.48	19363	31.19
438	73	0.12	3414	5.50	485	137	0.22	8659	13.95	532	312	0.50	19675	31.70
439	67	0.11	3481	5.61	486	183	0.29	8842	14.24	533	294	0.47	19969	32.17
440	77	0.12	3558	5.73	487	169	0.27	9011	14.52	534	286	0.46	20255	32.63
441	69	0.11	3627	5.84	488	163	0.26	9174	14.78	535	283	0.46	20538	33.09
442	88	0.14	3715	5.98	489	169	0.27	9343	15.05	536	307	0.49	20845	33.58
443	73	0.12	3788	6.10	490	179	0.29	9522	15.34	537	319	0.51	21164	34.09
444	79	0.13	3867	6.23	491	171	0.28	9693	15.61	538	305	0.49	21469	34.59
445	74	0.12	3941	6.35	492	191	0.31	9884	15.92	539	306	0.49	21775	35.08
446	70	0.11	4011	6.46	493	179	0.29	10063	16.21	540	299	0.48	22074	35.56
447	103	0.17	4114	6.63	494	198	0.32	10261	16.53	541	298	0.48	22372	36.04
448	71	0.11	4185	6.74	495	188	0.30	10449	16.83	542	305	0.49	22677	36.53
449	89	0.14	4274	6.89	496	193	0.31	10642	17.14	543	330	0.53	23007	37.06
450	88	0.14	4362	7.03	497	212	0.34	10854	17.49	544	281	0.45	23288	37.52
451	88	0.14	4450	7.17	498	219	0.35	11073	17.84	545	298	0.48	23586	38.00
452	98	0.16	4548	7.33	499	204	0.33	11277	18.17	546	307	0.49	23893	38.49
453	81	0.13	4629	7.46	500	208	0.34	11485	18.50	547	310	0.50	24203	38.99
454	86	0.14	4715	7.60	501	194	0.31	11679	18.81	548	318	0.51	24521	39.50
455	93	0.15	4808	7.75	502	210	0.34	11889	19.15	549	327	0.53	24848	40.03
456	104	0.17	4912	7.91	503	206	0.33	12095	19.48	550	333	0.54	25181	40.56
457	91	0.15	5003	8.06	504	219	0.35	12314	19.84	551	298	0.48	25479	41.04
458	100	0.16	5103	8.22	505	219	0.35	12533	20.19	552	335	0.54	25814	41.58
459	103	0.17	5206	8.39	506	228	0.37	12761	20.56	553	326	0.53	26140	42.11
460	97	0.16	5303	8.54	507	244	0.39	13005	20.95	554	329	0.53	26469	42.64
461	112	0.18	5415	8.72	508	245	0.39	13250	21.34	555	340	0.55	26809	43.19
462	97	0.16	5512	8.88	509	244	0.39	13494	21.74	556	311	0.50	27120	43.69
463	109	0.18	5621	9.06	510	213	0.34	13707	22.08	557	316	0.51	27436	44.20
464	130	0.21	5751	9.26	511	237	0.38	13944	22.46	558	341	0.55	27777	44.75
465	105	0.17	5856	9.43	512	252	0.41	14196	22.87	559	317	0.51	28094	45.26
466	129	0.21	5985	9.64	513	256	0.41	14452	23.28	560	333	0.54	28427	45.79
467	107	0.17	6092	9.81	514	266	0.43	14718	23.71	561	361	0.58	28788	46.38
468	112	0.18	6204	9.99	515	264	0.43	14982	24.13	562	330	0.53	29118	46.91
469	127	0.20	6331	10.20	516	294	0.47	15276	24.61	563	326	0.53	29444	47.43

Table 178. Scale Score Distribution, Mathematics Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
564	307	0.49	29751	47.93	611	296	0.48	44663	71.95	658	198	0.32	55759	89.82
565	347	0.56	30098	48.49	612	258	0.42	44921	72.36	659	178	0.29	55937	90.11
566	311	0.50	30409	48.99	613	262	0.42	45183	72.79	660	177	0.29	56114	90.40
567	319	0.51	30728	49.50	614	313	0.50	45496	73.29	661	165	0.27	56279	90.66
568	343	0.55	31071	50.05	615	305	0.49	45801	73.78	662	160	0.26	56439	90.92
569	316	0.51	31387	50.56	616	306	0.49	46107	74.28	663	161	0.26	56600	91.18
570	333	0.54	31720	51.10	617	265	0.43	46372	74.70	664	137	0.22	56737	91.40
571	345	0.56	32065	51.65	618	258	0.42	46630	75.12	665	162	0.26	56899	91.66
572	325	0.52	32390	52.18	619	286	0.46	46916	75.58	666	157	0.25	57056	91.91
573	342	0.55	32732	52.73	620	292	0.47	47208	76.05	667	152	0.24	57208	92.16
574	319	0.51	33051	53.24	621	279	0.45	47487	76.50	668	146	0.24	57354	92.39
575	332	0.53	33383	53.78	622	265	0.43	47752	76.93	669	153	0.25	57507	92.64
576	318	0.51	33701	54.29	623	279	0.45	48031	77.37	670	148	0.24	57655	92.88
577	323	0.52	34024	54.81	624	256	0.41	48287	77.79	671	158	0.25	57813	93.13
578	350	0.56	34374	55.37	625	300	0.48	48587	78.27	672	121	0.19	57934	93.33
579	328	0.53	34702	55.90	626	273	0.44	48860	78.71	673	118	0.19	58052	93.52
580	309	0.50	35011	56.40	627	244	0.39	49104	79.10	674	138	0.22	58190	93.74
581	348	0.56	35359	56.96	628	251	0.40	49355	79.51	675	123	0.20	58313	93.94
582	316	0.51	35675	57.47	629	250	0.40	49605	79.91	676	94	0.15	58407	94.09
583	314	0.51	35989	57.98	630	231	0.37	49836	80.28	677	102	0.16	58509	94.25
584	325	0.52	36314	58.50	631	236	0.38	50072	80.66	678	132	0.21	58641	94.47
585	351	0.57	36665	59.06	632	268	0.43	50340	81.09	679	102	0.16	58743	94.63
586	311	0.50	36976	59.57	633	251	0.40	50591	81.50	680	108	0.17	58851	94.80
587	311	0.50	37287	60.07	634	234	0.38	50825	81.88	681	103	0.17	58954	94.97
588	312	0.50	37599	60.57	635	208	0.34	51033	82.21	682	93	0.15	59047	95.12
589	317	0.51	37916	61.08	636	249	0.40	51282	82.61	683	99	0.16	59146	95.28
590	292	0.47	38208	61.55	637	220	0.35	51502	82.97	684	98	0.16	59244	95.44
591	302	0.49	38510	62.04	638	230	0.37	51732	83.34	685	86	0.14	59330	95.58
592	331	0.53	38841	62.57	639	213	0.34	51945	83.68	686	82	0.13	59412	95.71
593	297	0.48	39138	63.05	640	236	0.38	52181	84.06	687	88	0.14	59500	95.85
594	305	0.49	39443	63.54	641	246	0.40	52427	84.46	688	89	0.14	59589	95.99
595	320	0.52	39763	64.06	642	214	0.34	52641	84.80	689	94	0.15	59683	96.15
596	323	0.52	40086	64.58	643	209	0.34	52850	85.14	690	92	0.15	59775	96.29
597	323	0.52	40409	65.10	644	232	0.37	53082	85.51	691	84	0.14	59859	96.43
598	364	0.59	40773	65.68	645	223	0.36	53305	85.87	692	67	0.11	59926	96.54
599	306	0.49	41079	66.18	646	212	0.34	53517	86.21	693	64	0.10	59990	96.64
600	300	0.48	41379	66.66	647	175	0.28	53692	86.49	694	69	0.11	60059	96.75
601	294	0.47	41673	67.13	648	199	0.32	53891	86.81	695	69	0.11	60128	96.86
602	306	0.49	41979	67.63	649	215	0.35	54106	87.16	696	58	0.09	60186	96.96
603	293	0.47	42272	68.10	650	218	0.35	54324	87.51	697	83	0.13	60269	97.09
604	324	0.52	42596	68.62	651	170	0.27	54494	87.79	698	77	0.12	60346	97.21
605	260	0.42	42856	69.04	652	199	0.32	54693	88.11	699	59	0.10	60405	97.31
606	293	0.47	43149	69.51	653	173	0.28	54866	88.39	700	52	0.08	60457	97.39
607	292	0.47	43441	69.98	654	177	0.29	55043	88.67	701	59	0.10	60516	97.49
608	317	0.51	43758	70.49	655	175	0.28	55218	88.95	702	65	0.10	60581	97.59
609	324	0.52	44082	71.01	656	174	0.28	55392	89.23	703	57	0.09	60638	97.68
610	285	0.46	44367	71.47	657	169	0.27	55561	89.50	704	55	0.09	60693	97.77

Table 178. Scale Score Distribution, Mathematics Grade 7 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
705	62	0.10	60755	97.87	752	1	0.00	61876	99.68	805	1	0.00	62049	99.96
706	55	0.09	60810	97.96	753	10	0.02	61886	99.69	806	2	0.00	62051	99.96
707	51	0.08	60861	98.04	754	10	0.02	61896	99.71	807	1	0.00	62052	99.96
708	42	0.07	60903	98.11	755	10	0.02	61906	99.73	808	3	0.00	62055	99.97
709	31	0.05	60934	98.16	756	9	0.01	61915	99.74	809	1	0.00	62056	99.97
710	43	0.07	60977	98.23	757	5	0.01	61920	99.75	812	1	0.00	62057	99.97
711	42	0.07	61019	98.30	758	7	0.01	61927	99.76	813	1	0.00	62058	99.97
712	40	0.06	61059	98.36	759	7	0.01	61934	99.77	814	1	0.00	62059	99.97
713	34	0.05	61093	98.42	760	2	0.00	61936	99.77	816	2	0.00	62061	99.98
714	33	0.05	61126	98.47	761	6	0.01	61942	99.78	821	2	0.00	62063	99.98
715	37	0.06	61163	98.53	762	6	0.01	61948	99.79	822	1	0.00	62064	99.98
716	47	0.08	61210	98.60	763	1	0.00	61949	99.80	823	1	0.00	62065	99.98
717	28	0.05	61238	98.65	764	7	0.01	61956	99.81	830	1	0.00	62066	99.98
718	33	0.05	61271	98.70	765	7	0.01	61963	99.82	831	1	0.00	62067	99.99
719	29	0.05	61300	98.75	766	6	0.01	61969	99.83	832	1	0.00	62068	99.99
720	35	0.06	61335	98.81	767	4	0.01	61973	99.83	836	1	0.00	62069	99.99
721	35	0.06	61370	98.86	768	8	0.01	61981	99.85	837	1	0.00	62070	99.99
722	36	0.06	61406	98.92	769	3	0.00	61984	99.85	850	3	0.00	62073	100.00
723	30	0.05	61436	98.97	770	3	0.00	61987	99.86	860	3	0.00	62076	100.00
724	23	0.04	61459	99.01	771	1	0.00	61988	99.86					
725	18	0.03	61477	99.04	772	4	0.01	61992	99.86					
726	22	0.04	61499	99.07	773	3	0.00	61995	99.87					
727	20	0.03	61519	99.10	774	4	0.01	61999	99.88					
728	28	0.05	61547	99.15	775	3	0.00	62002	99.88					
729	28	0.05	61575	99.19	776	3	0.00	62005	99.89					
730	18	0.03	61593	99.22	777	1	0.00	62006	99.89					
731	12	0.02	61605	99.24	778	1	0.00	62007	99.89					
732	17	0.03	61622	99.27	779	2	0.00	62009	99.89					
733	21	0.03	61643	99.30	780	3	0.00	62012	99.90					
734	14	0.02	61657	99.33	781	3	0.00	62015	99.90					
735	19	0.03	61676	99.36	782	1	0.00	62016	99.90					
736	11	0.02	61687	99.37	783	2	0.00	62018	99.91					
737	20	0.03	61707	99.41	784	1	0.00	62019	99.91					
738	9	0.01	61716	99.42	785	2	0.00	62021	99.91					
739	16	0.03	61732	99.45	787	2	0.00	62023	99.91					
740	18	0.03	61750	99.47	788	6	0.01	62029	99.92					
741	13	0.02	61763	99.50	789	2	0.00	62031	99.93					
742	12	0.02	61775	99.52	790	2	0.00	62033	99.93					
743	15	0.02	61790	99.54	792	2	0.00	62035	99.93					
744	15	0.02	61805	99.56	794	2	0.00	62037	99.94					
745	14	0.02	61819	99.59	795	2	0.00	62039	99.94					
746	12	0.02	61831	99.61	796	2	0.00	62041	99.94					
747	10	0.02	61841	99.62	797	2	0.00	62043	99.95					
748	11	0.02	61852	99.64	799	1	0.00	62044	99.95					
749	8	0.01	61860	99.65	801	1	0.00	62045	99.95					
750	6	0.01	61866	99.66	802	2	0.00	62047	99.95					
751	9	0.01	61875	99.68	804	1	0.00	62048	99.95					

Table 179. Scale Score Distribution, Reading Grade 8

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
330	150	0.25	150	0.25	425	5	0.01	244	0.40	473	11	0.02	485	0.80
335	1	0.00	151	0.25	426	5	0.01	249	0.41	474	6	0.01	491	0.81
342	1	0.00	152	0.25	427	3	0.00	252	0.42	475	9	0.01	500	0.82
346	1	0.00	153	0.25	429	2	0.00	254	0.42	476	10	0.02	510	0.84
347	1	0.00	154	0.25	430	4	0.01	258	0.43	477	10	0.02	520	0.86
348	1	0.00	155	0.26	431	1	0.00	259	0.43	478	11	0.02	531	0.88
350	1	0.00	156	0.26	432	2	0.00	261	0.43	479	5	0.01	536	0.88
351	1	0.00	157	0.26	433	3	0.00	264	0.44	480	12	0.02	548	0.90
352	2	0.00	159	0.26	434	5	0.01	269	0.44	481	10	0.02	558	0.92
354	3	0.00	162	0.27	435	2	0.00	271	0.45	482	8	0.01	566	0.93
355	1	0.00	163	0.27	436	3	0.00	274	0.45	483	10	0.02	576	0.95
356	1	0.00	164	0.27	437	2	0.00	276	0.46	484	7	0.01	583	0.96
361	3	0.00	167	0.28	438	5	0.01	281	0.46	485	11	0.02	594	0.98
369	2	0.00	169	0.28	439	3	0.00	284	0.47	486	17	0.03	611	1.01
373	1	0.00	170	0.28	440	5	0.01	289	0.48	487	17	0.03	628	1.04
374	2	0.00	172	0.28	441	4	0.01	293	0.48	488	13	0.02	641	1.06
377	1	0.00	173	0.29	442	2	0.00	295	0.49	489	17	0.03	658	1.09
379	3	0.00	176	0.29	443	6	0.01	301	0.50	490	9	0.01	667	1.10
383	1	0.00	177	0.29	444	1	0.00	302	0.50	491	19	0.03	686	1.13
386	2	0.00	179	0.30	445	4	0.01	306	0.50	492	11	0.02	697	1.15
388	1	0.00	180	0.30	446	7	0.01	313	0.52	493	27	0.04	724	1.19
391	1	0.00	181	0.30	447	2	0.00	315	0.52	494	13	0.02	737	1.22
392	2	0.00	183	0.30	448	5	0.01	320	0.53	495	23	0.04	760	1.25
393	1	0.00	184	0.30	449	4	0.01	324	0.53	496	19	0.03	779	1.28
394	3	0.00	187	0.31	450	5	0.01	329	0.54	497	25	0.04	804	1.33
397	1	0.00	188	0.31	451	7	0.01	336	0.55	498	26	0.04	830	1.37
399	2	0.00	190	0.31	452	2	0.00	338	0.56	499	21	0.03	851	1.40
401	2	0.00	192	0.32	453	7	0.01	345	0.57	500	17	0.03	868	1.43
402	2	0.00	194	0.32	454	6	0.01	351	0.58	501	20	0.03	888	1.46
403	3	0.00	197	0.32	455	2	0.00	353	0.58	502	23	0.04	911	1.50
405	1	0.00	198	0.33	456	6	0.01	359	0.59	503	26	0.04	937	1.55
406	1	0.00	199	0.33	457	6	0.01	365	0.60	504	20	0.03	957	1.58
407	4	0.01	203	0.33	458	8	0.01	373	0.62	505	17	0.03	974	1.61
408	1	0.00	204	0.34	459	7	0.01	380	0.63	506	18	0.03	992	1.64
410	2	0.00	206	0.34	460	3	0.00	383	0.63	507	20	0.03	1012	1.67
412	1	0.00	207	0.34	461	5	0.01	388	0.64	508	27	0.04	1039	1.71
413	3	0.00	210	0.35	462	5	0.01	393	0.65	509	29	0.05	1068	1.76
414	5	0.01	215	0.35	463	5	0.01	398	0.66	510	25	0.04	1093	1.80
415	1	0.00	216	0.36	464	9	0.01	407	0.67	511	23	0.04	1116	1.84
416	2	0.00	218	0.36	465	11	0.02	418	0.69	512	28	0.05	1144	1.89
417	3	0.00	221	0.36	466	12	0.02	430	0.71	513	20	0.03	1164	1.92
418	1	0.00	222	0.37	467	6	0.01	436	0.72	514	39	0.06	1203	1.98
419	7	0.01	229	0.38	468	2	0.00	438	0.72	515	24	0.04	1227	2.02
421	4	0.01	233	0.38	469	9	0.01	447	0.74	516	23	0.04	1250	2.06
422	1	0.00	234	0.39	470	8	0.01	455	0.75	517	35	0.06	1285	2.12
423	4	0.01	238	0.39	471	11	0.02	466	0.77	518	35	0.06	1320	2.18
424	1	0.00	239	0.39	472	8	0.01	474	0.78	519	38	0.06	1358	2.24

Table 179. Scale Score Distribution, Reading Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
520	26	0.04	1384	2.28	567	117	0.19	4568	7.53	614	300	0.49	13861	22.86
521	29	0.05	1413	2.33	568	104	0.17	4672	7.71	615	320	0.53	14181	23.39
522	28	0.05	1441	2.38	569	112	0.18	4784	7.89	616	326	0.54	14507	23.93
523	28	0.05	1469	2.42	570	127	0.21	4911	8.10	617	328	0.54	14835	24.47
524	29	0.05	1498	2.47	571	116	0.19	5027	8.29	618	332	0.55	15167	25.02
525	51	0.08	1549	2.56	572	133	0.22	5160	8.51	619	369	0.61	15536	25.63
526	41	0.07	1590	2.62	573	129	0.21	5289	8.72	620	326	0.54	15862	26.16
527	50	0.08	1640	2.71	574	130	0.21	5419	8.94	621	358	0.59	16220	26.76
528	47	0.08	1687	2.78	575	136	0.22	5555	9.16	622	347	0.57	16567	27.33
529	39	0.06	1726	2.85	576	161	0.27	5716	9.43	623	362	0.60	16929	27.92
530	47	0.08	1773	2.92	577	166	0.27	5882	9.70	624	344	0.57	17273	28.49
531	49	0.08	1822	3.01	578	139	0.23	6021	9.93	625	305	0.50	17578	29.00
532	53	0.09	1875	3.09	579	158	0.26	6179	10.19	626	335	0.55	17913	29.55
533	45	0.07	1920	3.17	580	139	0.23	6318	10.42	627	372	0.61	18285	30.16
534	52	0.09	1972	3.25	581	163	0.27	6481	10.69	628	378	0.62	18663	30.78
535	46	0.08	2018	3.33	582	170	0.28	6651	10.97	629	367	0.61	19030	31.39
536	56	0.09	2074	3.42	583	167	0.28	6818	11.25	630	388	0.64	19418	32.03
537	56	0.09	2130	3.51	584	181	0.30	6999	11.54	631	355	0.59	19773	32.62
538	46	0.08	2176	3.59	585	168	0.28	7167	11.82	632	371	0.61	20144	33.23
539	66	0.11	2242	3.70	586	142	0.23	7309	12.06	633	370	0.61	20514	33.84
540	59	0.10	2301	3.80	587	196	0.32	7505	12.38	634	361	0.60	20875	34.43
541	55	0.09	2356	3.89	588	180	0.30	7685	12.68	635	395	0.65	21270	35.09
542	60	0.10	2416	3.99	589	183	0.30	7868	12.98	636	425	0.70	21695	35.79
543	57	0.09	2473	4.08	590	186	0.31	8054	13.29	637	378	0.62	22073	36.41
544	61	0.10	2534	4.18	591	158	0.26	8212	13.55	638	388	0.64	22461	37.05
545	67	0.11	2601	4.29	592	206	0.34	8418	13.89	639	420	0.69	22881	37.74
546	73	0.12	2674	4.41	593	185	0.31	8603	14.19	640	432	0.71	23313	38.46
547	75	0.12	2749	4.53	594	210	0.35	8813	14.54	641	423	0.70	23736	39.15
548	61	0.10	2810	4.64	595	211	0.35	9024	14.89	642	452	0.75	24188	39.90
549	89	0.15	2899	4.78	596	246	0.41	9270	15.29	643	403	0.66	24591	40.56
550	78	0.13	2977	4.91	597	217	0.36	9487	15.65	644	411	0.68	25002	41.24
551	77	0.13	3054	5.04	598	208	0.34	9695	15.99	645	395	0.65	25397	41.89
552	69	0.11	3123	5.15	599	212	0.35	9907	16.34	646	466	0.77	25863	42.66
553	66	0.11	3189	5.26	600	219	0.36	10126	16.70	647	455	0.75	26318	43.41
554	71	0.12	3260	5.38	601	276	0.46	10402	17.16	648	450	0.74	26768	44.15
555	101	0.17	3361	5.54	602	252	0.42	10654	17.57	649	442	0.73	27210	44.88
556	87	0.14	3448	5.69	603	248	0.41	10902	17.98	650	458	0.76	27668	45.64
557	75	0.12	3523	5.81	604	237	0.39	11139	18.37	651	495	0.82	28163	46.46
558	95	0.16	3618	5.97	605	241	0.40	11380	18.77	652	435	0.72	28598	47.17
559	91	0.15	3709	6.12	606	248	0.41	11628	19.18	653	454	0.75	29052	47.92
560	108	0.18	3817	6.30	607	258	0.43	11886	19.61	654	484	0.80	29536	48.72
561	112	0.18	3929	6.48	608	275	0.45	12161	20.06	655	492	0.81	30028	49.53
562	101	0.17	4030	6.65	609	266	0.44	12427	20.50	656	458	0.76	30486	50.29
563	87	0.14	4117	6.79	610	263	0.43	12690	20.93	657	457	0.75	30943	51.04
564	113	0.19	4230	6.98	611	294	0.48	12984	21.42	658	516	0.85	31459	51.89
565	101	0.17	4331	7.14	612	297	0.49	13281	21.91	659	476	0.79	31935	52.68
566	120	0.20	4451	7.34	613	280	0.46	13561	22.37	660	490	0.81	32425	53.49

Table 179. Scale Score Distribution, Reading Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
661	497	0.82	32922	54.31	708	298	0.49	52086	85.92	755	64	0.11	59620	98.34
662	464	0.77	33386	55.07	709	248	0.41	52334	86.33	756	57	0.09	59677	98.44
663	459	0.76	33845	55.83	710	311	0.51	52645	86.84	757	54	0.09	59731	98.53
664	479	0.79	34324	56.62	711	279	0.46	52924	87.30	758	51	0.08	59782	98.61
665	467	0.77	34791	57.39	712	263	0.43	53187	87.73	759	50	0.08	59832	98.69
666	476	0.79	35267	58.17	713	272	0.45	53459	88.18	760	47	0.08	59879	98.77
667	459	0.76	35726	58.93	714	272	0.45	53731	88.63	761	44	0.07	59923	98.84
668	484	0.80	36210	59.73	715	252	0.42	53983	89.05	762	23	0.04	59946	98.88
669	468	0.77	36678	60.50	716	244	0.40	54227	89.45	763	42	0.07	59988	98.95
670	459	0.76	37137	61.26	717	265	0.44	54492	89.89	764	29	0.05	60017	99.00
671	441	0.73	37578	61.99	718	225	0.37	54717	90.26	765	30	0.05	60047	99.05
672	447	0.74	38025	62.72	719	219	0.36	54936	90.62	766	27	0.04	60074	99.09
673	444	0.73	38469	63.46	720	206	0.34	55142	90.96	767	27	0.04	60101	99.14
674	440	0.73	38909	64.18	721	200	0.33	55342	91.29	768	26	0.04	60127	99.18
675	480	0.79	39389	64.97	722	186	0.31	55528	91.59	769	25	0.04	60152	99.22
676	493	0.81	39882	65.79	723	205	0.34	55733	91.93	770	28	0.05	60180	99.27
677	403	0.66	40285	66.45	724	184	0.30	55917	92.24	771	32	0.05	60212	99.32
678	433	0.71	40718	67.16	725	170	0.28	56087	92.52	772	22	0.04	60234	99.36
679	433	0.71	41151	67.88	726	184	0.30	56271	92.82	773	22	0.04	60256	99.39
680	443	0.73	41594	68.61	727	207	0.34	56478	93.16	774	24	0.04	60280	99.43
681	428	0.71	42022	69.32	728	190	0.31	56668	93.47	775	13	0.02	60293	99.45
682	407	0.67	42429	69.99	729	176	0.29	56844	93.76	776	17	0.03	60310	99.48
683	416	0.69	42845	70.67	730	169	0.28	57013	94.04	777	24	0.04	60334	99.52
684	414	0.68	43259	71.36	731	152	0.25	57165	94.29	778	15	0.02	60349	99.55
685	410	0.68	43669	72.03	732	154	0.25	57319	94.55	779	20	0.03	60369	99.58
686	415	0.68	44084	72.72	733	152	0.25	57471	94.80	780	20	0.03	60389	99.61
687	429	0.71	44513	73.42	734	153	0.25	57624	95.05	781	11	0.02	60400	99.63
688	427	0.70	44940	74.13	735	156	0.26	57780	95.31	782	14	0.02	60414	99.65
689	390	0.64	45330	74.77	736	129	0.21	57909	95.52	783	11	0.02	60425	99.67
690	388	0.64	45718	75.41	737	114	0.19	58023	95.71	784	14	0.02	60439	99.69
691	374	0.62	46092	76.03	738	118	0.19	58141	95.90	785	8	0.01	60447	99.71
692	389	0.64	46481	76.67	739	134	0.22	58275	96.13	786	8	0.01	60455	99.72
693	398	0.66	46879	77.33	740	119	0.20	58394	96.32	787	7	0.01	60462	99.73
694	399	0.66	47278	77.99	741	108	0.18	58502	96.50	788	11	0.02	60473	99.75
695	416	0.69	47694	78.67	742	91	0.15	58593	96.65	789	5	0.01	60478	99.76
696	368	0.61	48062	79.28	743	102	0.17	58695	96.82	790	10	0.02	60488	99.78
697	385	0.64	48447	79.91	744	102	0.17	58797	96.99	791	7	0.01	60495	99.79
698	358	0.59	48805	80.50	745	79	0.13	58876	97.12	792	6	0.01	60501	99.80
699	374	0.62	49179	81.12	746	97	0.16	58973	97.28	793	7	0.01	60508	99.81
700	359	0.59	49538	81.71	747	88	0.15	59061	97.42	794	9	0.01	60517	99.82
701	399	0.66	49937	82.37	748	86	0.14	59147	97.56	795	7	0.01	60524	99.84
702	322	0.53	50259	82.90	749	71	0.12	59218	97.68	796	7	0.01	60531	99.85
703	307	0.51	50566	83.41	750	86	0.14	59304	97.82	797	7	0.01	60538	99.86
704	306	0.50	50872	83.91	751	61	0.10	59365	97.92	798	7	0.01	60545	99.87
705	307	0.51	51179	84.42	752	73	0.12	59438	98.04	799	2	0.00	60547	99.87
706	308	0.51	51487	84.93	753	55	0.09	59493	98.13	800	6	0.01	60553	99.88
707	301	0.50	51788	85.42	754	63	0.10	59556	98.24	801	4	0.01	60557	99.89

Table 179. Scale Score Distribution, Reading Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
802	2	0.00	60559	99.89
803	9	0.01	60568	99.91
804	5	0.01	60573	99.92
805	6	0.01	60579	99.93
806	6	0.01	60585	99.94
808	1	0.00	60586	99.94
809	3	0.00	60589	99.94
810	4	0.01	60593	99.95
811	1	0.00	60594	99.95
812	6	0.01	60600	99.96
813	2	0.00	60602	99.96
816	1	0.00	60603	99.97
817	1	0.00	60604	99.97
819	1	0.00	60605	99.97
821	3	0.00	60608	99.97
822	1	0.00	60609	99.98
823	3	0.00	60612	99.98
826	1	0.00	60613	99.98
828	1	0.00	60614	99.98
832	2	0.00	60616	99.99
840	1	0.00	60617	99.99
841	3	0.00	60620	99.99
843	1	0.00	60621	100.00
854	1	0.00	60622	100.00
859	1	0.00	60623	100.00
892	1	0.00	60624	100.00

Table 180. Scale Score Distribution, Writing Grade 8

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
250	26	0.04	26	0.04	336	4	0.01	98	0.16	387	16	0.03	454	0.75
254	1	0.00	27	0.04	338	1	0.00	99	0.16	388	20	0.03	474	0.78
255	1	0.00	28	0.05	340	3	0.00	102	0.17	389	11	0.02	485	0.80
261	1	0.00	29	0.05	341	4	0.01	106	0.17	390	25	0.04	510	0.84
264	1	0.00	30	0.05	343	6	0.01	112	0.18	391	16	0.03	526	0.87
269	2	0.00	32	0.05	345	4	0.01	116	0.19	392	16	0.03	542	0.89
272	1	0.00	33	0.05	346	4	0.01	120	0.20	393	19	0.03	561	0.93
274	5	0.01	38	0.06	347	6	0.01	126	0.21	394	16	0.03	577	0.95
276	1	0.00	39	0.06	348	4	0.01	130	0.21	395	18	0.03	595	0.98
277	1	0.00	40	0.07	349	3	0.00	133	0.22	396	22	0.04	617	1.02
280	1	0.00	41	0.07	350	2	0.00	135	0.22	397	16	0.03	633	1.04
283	2	0.00	43	0.07	351	4	0.01	139	0.23	398	17	0.03	650	1.07
287	1	0.00	44	0.07	352	2	0.00	141	0.23	399	23	0.04	673	1.11
290	1	0.00	45	0.07	353	7	0.01	148	0.24	400	14	0.02	687	1.13
293	1	0.00	46	0.08	354	7	0.01	155	0.26	401	18	0.03	705	1.16
294	1	0.00	47	0.08	355	5	0.01	160	0.26	402	26	0.04	731	1.21
296	1	0.00	48	0.08	356	2	0.00	162	0.27	403	23	0.04	754	1.24
298	2	0.00	50	0.08	357	6	0.01	168	0.28	404	17	0.03	771	1.27
302	2	0.00	52	0.09	358	10	0.02	178	0.29	405	23	0.04	794	1.31
303	1	0.00	53	0.09	359	4	0.01	182	0.30	406	27	0.04	821	1.35
304	1	0.00	54	0.09	360	6	0.01	188	0.31	407	38	0.06	859	1.42
306	2	0.00	56	0.09	361	1	0.00	189	0.31	408	26	0.04	885	1.46
309	2	0.00	58	0.10	362	5	0.01	194	0.32	409	35	0.06	920	1.52
310	2	0.00	60	0.10	363	4	0.01	198	0.33	410	34	0.06	954	1.57
311	1	0.00	61	0.10	364	7	0.01	205	0.34	411	35	0.06	989	1.63
312	1	0.00	62	0.10	365	6	0.01	211	0.35	412	32	0.05	1021	1.68
313	1	0.00	63	0.10	366	7	0.01	218	0.36	413	31	0.05	1052	1.74
314	1	0.00	64	0.11	367	4	0.01	222	0.37	414	32	0.05	1084	1.79
315	1	0.00	65	0.11	368	14	0.02	236	0.39	415	38	0.06	1122	1.85
316	1	0.00	66	0.11	369	3	0.00	239	0.39	416	33	0.05	1155	1.91
317	1	0.00	67	0.11	370	8	0.01	247	0.41	417	31	0.05	1186	1.96
318	3	0.00	70	0.12	371	8	0.01	255	0.42	418	32	0.05	1218	2.01
319	1	0.00	71	0.12	372	11	0.02	266	0.44	419	33	0.05	1251	2.06
321	1	0.00	72	0.12	373	15	0.02	281	0.46	420	33	0.05	1284	2.12
322	2	0.00	74	0.12	374	12	0.02	293	0.48	421	32	0.05	1316	2.17
323	2	0.00	76	0.13	375	9	0.01	302	0.50	422	39	0.06	1355	2.24
324	1	0.00	77	0.13	376	8	0.01	310	0.51	423	48	0.08	1403	2.32
326	1	0.00	78	0.13	377	9	0.01	319	0.53	424	33	0.05	1436	2.37
327	1	0.00	79	0.13	378	11	0.02	330	0.54	425	36	0.06	1472	2.43
328	2	0.00	81	0.13	379	12	0.02	342	0.56	426	38	0.06	1510	2.49
329	2	0.00	83	0.14	380	11	0.02	353	0.58	427	42	0.07	1552	2.56
330	3	0.00	86	0.14	381	13	0.02	366	0.60	428	47	0.08	1599	2.64
331	1	0.00	87	0.14	382	9	0.01	375	0.62	429	42	0.07	1641	2.71
332	3	0.00	90	0.15	383	16	0.03	391	0.65	430	60	0.10	1701	2.81
333	2	0.00	92	0.15	384	12	0.02	403	0.67	431	55	0.09	1756	2.90
334	1	0.00	93	0.15	385	14	0.02	417	0.69	432	42	0.07	1798	2.97
335	1	0.00	94	0.16	386	21	0.03	438	0.72	433	38	0.06	1836	3.03

Table 180. Scale Score Distribution, Writing Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
434	44	0.07	1880	3.10	481	172	0.28	6530	10.78	528	281	0.46	17058	28.15
435	45	0.07	1925	3.18	482	124	0.20	6654	10.98	529	309	0.51	17367	28.66
436	59	0.10	1984	3.27	483	177	0.29	6831	11.27	530	337	0.56	17704	29.22
437	60	0.10	2044	3.37	484	154	0.25	6985	11.53	531	294	0.49	17998	29.70
438	53	0.09	2097	3.46	485	149	0.25	7134	11.77	532	291	0.48	18289	30.18
439	54	0.09	2151	3.55	486	154	0.25	7288	12.03	533	326	0.54	18615	30.72
440	54	0.09	2205	3.64	487	155	0.26	7443	12.28	534	341	0.56	18956	31.28
441	72	0.12	2277	3.76	488	165	0.27	7608	12.56	535	342	0.56	19298	31.85
442	72	0.12	2349	3.88	489	162	0.27	7770	12.82	536	335	0.55	19633	32.40
443	78	0.13	2427	4.01	490	175	0.29	7945	13.11	537	320	0.53	19953	32.93
444	75	0.12	2502	4.13	491	151	0.25	8096	13.36	538	325	0.54	20278	33.47
445	65	0.11	2567	4.24	492	178	0.29	8274	13.65	539	386	0.64	20664	34.10
446	70	0.12	2637	4.35	493	183	0.30	8457	13.96	540	343	0.57	21007	34.67
447	63	0.10	2700	4.46	494	190	0.31	8647	14.27	541	343	0.57	21350	35.23
448	81	0.13	2781	4.59	495	186	0.31	8833	14.58	542	399	0.66	21749	35.89
449	86	0.14	2867	4.73	496	182	0.30	9015	14.88	543	369	0.61	22118	36.50
450	73	0.12	2940	4.85	497	199	0.33	9214	15.21	544	329	0.54	22447	37.04
451	102	0.17	3042	5.02	498	199	0.33	9413	15.53	545	320	0.53	22767	37.57
452	68	0.11	3110	5.13	499	191	0.32	9604	15.85	546	368	0.61	23135	38.18
453	76	0.13	3186	5.26	500	231	0.38	9835	16.23	547	405	0.67	23540	38.85
454	60	0.10	3246	5.36	501	225	0.37	10060	16.60	548	387	0.64	23927	39.49
455	95	0.16	3341	5.51	502	207	0.34	10267	16.94	549	352	0.58	24279	40.07
456	107	0.18	3448	5.69	503	235	0.39	10502	17.33	550	364	0.60	24643	40.67
457	109	0.18	3557	5.87	504	225	0.37	10727	17.70	551	386	0.64	25029	41.31
458	113	0.19	3670	6.06	505	211	0.35	10938	18.05	552	365	0.60	25394	41.91
459	97	0.16	3767	6.22	506	241	0.40	11179	18.45	553	392	0.65	25786	42.56
460	93	0.15	3860	6.37	507	216	0.36	11395	18.81	554	392	0.65	26178	43.20
461	111	0.18	3971	6.55	508	245	0.40	11640	19.21	555	341	0.56	26519	43.77
462	103	0.17	4074	6.72	509	218	0.36	11858	19.57	556	390	0.64	26909	44.41
463	102	0.17	4176	6.89	510	236	0.39	12094	19.96	557	359	0.59	27268	45.00
464	111	0.18	4287	7.07	511	218	0.36	12312	20.32	558	381	0.63	27649	45.63
465	117	0.19	4404	7.27	512	274	0.45	12586	20.77	559	382	0.63	28031	46.26
466	136	0.22	4540	7.49	513	246	0.41	12832	21.18	560	367	0.61	28398	46.87
467	130	0.21	4670	7.71	514	258	0.43	13090	21.60	561	386	0.64	28784	47.50
468	123	0.20	4793	7.91	515	261	0.43	13351	22.03	562	415	0.68	29199	48.19
469	116	0.19	4909	8.10	516	278	0.46	13629	22.49	563	401	0.66	29600	48.85
470	112	0.18	5021	8.29	517	274	0.45	13903	22.94	564	408	0.67	30008	49.52
471	117	0.19	5138	8.48	518	271	0.45	14174	23.39	565	379	0.63	30387	50.15
472	119	0.20	5257	8.68	519	311	0.51	14485	23.91	566	419	0.69	30806	50.84
473	110	0.18	5367	8.86	520	268	0.44	14753	24.35	567	398	0.66	31204	51.50
474	136	0.22	5503	9.08	521	271	0.45	15024	24.79	568	382	0.63	31586	52.13
475	137	0.23	5640	9.31	522	265	0.44	15289	25.23	569	419	0.69	32005	52.82
476	144	0.24	5784	9.55	523	290	0.48	15579	25.71	570	378	0.62	32383	53.44
477	125	0.21	5909	9.75	524	290	0.48	15869	26.19	571	377	0.62	32760	54.06
478	150	0.25	6059	10.00	525	302	0.50	16171	26.69	572	390	0.64	33150	54.71
479	153	0.25	6212	10.25	526	314	0.52	16485	27.21	573	402	0.66	33552	55.37
480	146	0.24	6358	10.49	527	292	0.48	16777	27.69	574	369	0.61	33921	55.98

Table 180. Scale Score Distribution, Writing Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
575	372	0.61	34293	56.59	622	282	0.47	49540	81.76	669	97	0.16	57102	94.24
576	366	0.60	34659	57.20	623	242	0.40	49782	82.16	670	92	0.15	57194	94.39
577	381	0.63	35040	57.83	624	241	0.40	50023	82.55	671	92	0.15	57286	94.54
578	362	0.60	35402	58.42	625	264	0.44	50287	82.99	672	88	0.15	57374	94.69
579	367	0.61	35769	59.03	626	225	0.37	50512	83.36	673	76	0.13	57450	94.81
580	370	0.61	36139	59.64	627	250	0.41	50762	83.77	674	83	0.14	57533	94.95
581	371	0.61	36510	60.25	628	215	0.35	50977	84.13	675	94	0.16	57627	95.10
582	365	0.60	36875	60.86	629	223	0.37	51200	84.50	676	65	0.11	57692	95.21
583	345	0.57	37220	61.43	630	219	0.36	51419	84.86	677	73	0.12	57765	95.33
584	332	0.55	37552	61.97	631	207	0.34	51626	85.20	678	69	0.11	57834	95.45
585	369	0.61	37921	62.58	632	210	0.35	51836	85.55	679	76	0.13	57910	95.57
586	365	0.60	38286	63.18	633	197	0.33	52033	85.87	680	60	0.10	57970	95.67
587	382	0.63	38668	63.81	634	204	0.34	52237	86.21	681	69	0.11	58039	95.78
588	350	0.58	39018	64.39	635	206	0.34	52443	86.55	682	62	0.10	58101	95.89
589	391	0.65	39409	65.04	636	193	0.32	52636	86.87	683	73	0.12	58174	96.01
590	361	0.60	39770	65.63	637	199	0.33	52835	87.20	684	71	0.12	58245	96.12
591	354	0.58	40124	66.22	638	169	0.28	53004	87.47	685	76	0.13	58321	96.25
592	343	0.57	40467	66.78	639	182	0.30	53186	87.77	686	60	0.10	58381	96.35
593	350	0.58	40817	67.36	640	179	0.30	53365	88.07	687	55	0.09	58436	96.44
594	327	0.54	41144	67.90	641	192	0.32	53557	88.39	688	57	0.09	58493	96.53
595	345	0.57	41489	68.47	642	166	0.27	53723	88.66	689	50	0.08	58543	96.62
596	321	0.53	41810	69.00	643	171	0.28	53894	88.94	690	51	0.08	58594	96.70
597	348	0.57	42158	69.57	644	159	0.26	54053	89.21	691	67	0.11	58661	96.81
598	327	0.54	42485	70.11	645	158	0.26	54211	89.47	692	42	0.07	58703	96.88
599	339	0.56	42824	70.67	646	135	0.22	54346	89.69	693	57	0.09	58760	96.97
600	333	0.55	43157	71.22	647	157	0.26	54503	89.95	694	53	0.09	58813	97.06
601	321	0.53	43478	71.75	648	153	0.25	54656	90.20	695	45	0.07	58858	97.14
602	320	0.53	43798	72.28	649	137	0.23	54793	90.43	696	49	0.08	58907	97.22
603	325	0.54	44123	72.82	650	160	0.26	54953	90.69	697	42	0.07	58949	97.29
604	336	0.55	44459	73.37	651	140	0.23	55093	90.92	698	64	0.11	59013	97.39
605	321	0.53	44780	73.90	652	142	0.23	55235	91.16	699	42	0.07	59055	97.46
606	320	0.53	45100	74.43	653	146	0.24	55381	91.40	700	37	0.06	59092	97.52
607	320	0.53	45420	74.96	654	126	0.21	55507	91.60	701	41	0.07	59133	97.59
608	289	0.48	45709	75.43	655	129	0.21	55636	91.82	702	27	0.04	59160	97.63
609	291	0.48	46000	75.92	656	113	0.19	55749	92.00	703	37	0.06	59197	97.69
610	280	0.46	46280	76.38	657	127	0.21	55876	92.21	704	24	0.04	59221	97.73
611	278	0.46	46558	76.84	658	134	0.22	56010	92.43	705	46	0.08	59267	97.81
612	265	0.44	46823	77.27	659	120	0.20	56130	92.63	706	36	0.06	59303	97.87
613	303	0.50	47126	77.77	660	104	0.17	56234	92.80	707	26	0.04	59329	97.91
614	308	0.51	47434	78.28	661	113	0.19	56347	92.99	708	36	0.06	59365	97.97
615	301	0.50	47735	78.78	662	106	0.17	56453	93.17	709	27	0.04	59392	98.02
616	267	0.44	48002	79.22	663	90	0.15	56543	93.31	710	28	0.05	59420	98.06
617	260	0.43	48262	79.65	664	93	0.15	56636	93.47	711	36	0.06	59456	98.12
618	251	0.41	48513	80.06	665	100	0.17	56736	93.63	712	19	0.03	59475	98.15
619	259	0.43	48772	80.49	666	93	0.15	56829	93.79	713	38	0.06	59513	98.22
620	238	0.39	49010	80.88	667	76	0.13	56905	93.91	714	25	0.04	59538	98.26
621	248	0.41	49258	81.29	668	100	0.17	57005	94.08	715	14	0.02	59552	98.28

Table 180. Scale Score Distribution, Writing Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
716	42	0.07	59594	98.35	763	5	0.01	60269	99.46	910	41	0.07	60594	100.00
717	22	0.04	59616	98.39	764	10	0.02	60279	99.48					
718	24	0.04	59640	98.43	765	2	0.00	60281	99.48					
719	19	0.03	59659	98.46	766	10	0.02	60291	99.50					
720	18	0.03	59677	98.49	767	5	0.01	60296	99.51					
721	30	0.05	59707	98.54	768	15	0.02	60311	99.53					
722	24	0.04	59731	98.58	769	1	0.00	60312	99.53					
723	24	0.04	59755	98.62	770	4	0.01	60316	99.54					
724	28	0.05	59783	98.66	771	5	0.01	60321	99.55					
725	9	0.01	59792	98.68	772	1	0.00	60322	99.55					
726	11	0.02	59803	98.69	773	1	0.00	60323	99.55					
727	10	0.02	59813	98.71	774	3	0.00	60326	99.56					
728	26	0.04	59839	98.75	775	11	0.02	60337	99.58					
729	20	0.03	59859	98.79	776	5	0.01	60342	99.58					
730	16	0.03	59875	98.81	777	2	0.00	60344	99.59					
731	14	0.02	59889	98.84	778	8	0.01	60352	99.60					
732	14	0.02	59903	98.86	779	3	0.00	60355	99.61					
733	14	0.02	59917	98.88	780	18	0.03	60373	99.64					
734	15	0.02	59932	98.91	782	3	0.00	60376	99.64					
735	11	0.02	59943	98.93	783	3	0.00	60379	99.65					
736	25	0.04	59968	98.97	786	1	0.00	60380	99.65					
737	20	0.03	59988	99.00	787	2	0.00	60382	99.65					
738	14	0.02	60002	99.02	788	9	0.01	60391	99.66					
739	16	0.03	60018	99.05	789	11	0.02	60402	99.68					
740	6	0.01	60024	99.06	790	2	0.00	60404	99.69					
741	9	0.01	60033	99.07	791	6	0.01	60410	99.70					
742	14	0.02	60047	99.10	792	7	0.01	60417	99.71					
743	30	0.05	60077	99.15	793	3	0.00	60420	99.71					
744	13	0.02	60090	99.17	794	4	0.01	60424	99.72					
745	22	0.04	60112	99.20	795	3	0.00	60427	99.72					
746	16	0.03	60128	99.23	796	23	0.04	60450	99.76					
747	4	0.01	60132	99.24	797	1	0.00	60451	99.76					
748	7	0.01	60139	99.25	799	11	0.02	60462	99.78					
749	2	0.00	60141	99.25	805	2	0.00	60464	99.79					
750	5	0.01	60146	99.26	806	4	0.01	60468	99.79					
751	23	0.04	60169	99.30	810	8	0.01	60476	99.81					
752	4	0.01	60173	99.31	811	19	0.03	60495	99.84					
753	17	0.03	60190	99.33	812	5	0.01	60500	99.84					
754	24	0.04	60214	99.37	813	4	0.01	60504	99.85					
755	4	0.01	60218	99.38	820	6	0.01	60510	99.86					
756	8	0.01	60226	99.39	839	2	0.00	60512	99.86					
757	5	0.01	60231	99.40	846	2	0.00	60514	99.87					
758	9	0.01	60240	99.42	852	9	0.01	60523	99.88					
759	3	0.00	60243	99.42	886	5	0.01	60528	99.89					
760	3	0.00	60246	99.43	893	1	0.00	60529	99.89					
761	13	0.02	60259	99.45	900	4	0.01	60533	99.90					
762	5	0.01	60264	99.46	908	20	0.03	60553	99.93					

Table 181. Scale Score Distribution, Mathematics Grade 8

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
310	208	0.34	208	0.34	358	6	0.01	389	0.64	405	26	0.04	925	1.52
311	4	0.01	212	0.35	359	5	0.01	394	0.65	406	9	0.01	934	1.54
312	5	0.01	217	0.36	360	4	0.01	398	0.66	407	18	0.03	952	1.57
313	2	0.00	219	0.36	361	4	0.01	402	0.66	408	20	0.03	972	1.60
314	3	0.00	222	0.37	362	12	0.02	414	0.68	409	21	0.03	993	1.64
315	1	0.00	223	0.37	363	7	0.01	421	0.69	410	22	0.04	1015	1.67
316	3	0.00	226	0.37	364	9	0.01	430	0.71	411	25	0.04	1040	1.71
317	1	0.00	227	0.37	365	10	0.02	440	0.73	412	21	0.03	1061	1.75
318	1	0.00	228	0.38	366	13	0.02	453	0.75	413	26	0.04	1087	1.79
319	6	0.01	234	0.39	367	6	0.01	459	0.76	414	24	0.04	1111	1.83
320	1	0.00	235	0.39	368	6	0.01	465	0.77	415	23	0.04	1134	1.87
321	3	0.00	238	0.39	369	9	0.01	474	0.78	416	18	0.03	1152	1.90
322	4	0.01	242	0.40	370	8	0.01	482	0.79	417	26	0.04	1178	1.94
323	2	0.00	244	0.40	371	6	0.01	488	0.80	418	17	0.03	1195	1.97
324	2	0.00	246	0.41	372	6	0.01	494	0.81	419	30	0.05	1225	2.02
325	4	0.01	250	0.41	373	11	0.02	505	0.83	420	24	0.04	1249	2.06
326	1	0.00	251	0.41	374	6	0.01	511	0.84	421	30	0.05	1279	2.11
327	4	0.01	255	0.42	375	16	0.03	527	0.87	422	29	0.05	1308	2.16
328	2	0.00	257	0.42	376	10	0.02	537	0.88	423	35	0.06	1343	2.21
329	1	0.00	258	0.43	377	17	0.03	554	0.91	424	32	0.05	1375	2.27
330	1	0.00	259	0.43	378	8	0.01	562	0.93	425	32	0.05	1407	2.32
331	4	0.01	263	0.43	379	6	0.01	568	0.94	426	22	0.04	1429	2.35
332	3	0.00	266	0.44	380	17	0.03	585	0.96	427	32	0.05	1461	2.41
333	3	0.00	269	0.44	381	10	0.02	595	0.98	428	36	0.06	1497	2.47
334	3	0.00	272	0.45	382	8	0.01	603	0.99	429	33	0.05	1530	2.52
335	2	0.00	274	0.45	383	8	0.01	611	1.01	430	27	0.04	1557	2.57
336	1	0.00	275	0.45	384	10	0.02	621	1.02	431	35	0.06	1592	2.62
337	6	0.01	281	0.46	385	6	0.01	627	1.03	432	38	0.06	1630	2.69
339	4	0.01	285	0.47	386	16	0.03	643	1.06	433	31	0.05	1661	2.74
340	4	0.01	289	0.48	387	10	0.02	653	1.08	434	34	0.06	1695	2.79
341	4	0.01	293	0.48	388	7	0.01	660	1.09	435	33	0.05	1728	2.85
342	8	0.01	301	0.50	389	19	0.03	679	1.12	436	40	0.07	1768	2.91
343	3	0.00	304	0.50	390	16	0.03	695	1.15	437	45	0.07	1813	2.99
344	1	0.00	305	0.50	391	13	0.02	708	1.17	438	38	0.06	1851	3.05
345	8	0.01	313	0.52	392	14	0.02	722	1.19	439	42	0.07	1893	3.12
346	8	0.01	321	0.53	393	12	0.02	734	1.21	440	51	0.08	1944	3.20
347	6	0.01	327	0.54	394	9	0.01	743	1.22	441	60	0.10	2004	3.30
348	6	0.01	333	0.55	395	16	0.03	759	1.25	442	43	0.07	2047	3.37
349	11	0.02	344	0.57	396	13	0.02	772	1.27	443	52	0.09	2099	3.46
350	2	0.00	346	0.57	397	12	0.02	784	1.29	444	48	0.08	2147	3.54
351	5	0.01	351	0.58	398	17	0.03	801	1.32	445	46	0.08	2193	3.61
352	7	0.01	358	0.59	399	14	0.02	815	1.34	446	54	0.09	2247	3.70
353	6	0.01	364	0.60	400	22	0.04	837	1.38	447	42	0.07	2289	3.77
354	3	0.00	367	0.60	401	13	0.02	850	1.40	448	44	0.07	2333	3.84
355	2	0.00	369	0.61	402	17	0.03	867	1.43	449	56	0.09	2389	3.94
356	6	0.01	375	0.62	403	21	0.03	888	1.46	450	60	0.10	2449	4.04
357	8	0.01	383	0.63	404	11	0.02	899	1.48	451	60	0.10	2509	4.13

Table 181. Scale Score Distribution, Mathematics Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
452	42	0.07	2551	4.20	499	155	0.26	7431	12.25	546	332	0.55	18734	30.87
453	68	0.11	2619	4.32	500	169	0.28	7600	12.52	547	320	0.53	19054	31.40
454	70	0.12	2689	4.43	501	181	0.30	7781	12.82	548	362	0.60	19416	31.99
455	73	0.12	2762	4.55	502	177	0.29	7958	13.11	549	312	0.51	19728	32.51
456	62	0.10	2824	4.65	503	148	0.24	8106	13.36	550	369	0.61	20097	33.12
457	61	0.10	2885	4.75	504	197	0.32	8303	13.68	551	310	0.51	20407	33.63
458	60	0.10	2945	4.85	505	187	0.31	8490	13.99	552	341	0.56	20748	34.19
459	73	0.12	3018	4.97	506	194	0.32	8684	14.31	553	312	0.51	21060	34.70
460	76	0.13	3094	5.10	507	181	0.30	8865	14.61	554	358	0.59	21418	35.29
461	51	0.08	3145	5.18	508	183	0.30	9048	14.91	555	334	0.55	21752	35.84
462	66	0.11	3211	5.29	509	185	0.30	9233	15.21	556	344	0.57	22096	36.41
463	79	0.13	3290	5.42	510	205	0.34	9438	15.55	557	343	0.57	22439	36.98
464	71	0.12	3361	5.54	511	205	0.34	9643	15.89	558	319	0.53	22758	37.50
465	69	0.11	3430	5.65	512	173	0.29	9816	16.18	559	351	0.58	23109	38.08
466	78	0.13	3508	5.78	513	207	0.34	10023	16.52	560	358	0.59	23467	38.67
467	95	0.16	3603	5.94	514	198	0.33	10221	16.84	561	328	0.54	23795	39.21
468	77	0.13	3680	6.06	515	236	0.39	10457	17.23	562	379	0.62	24174	39.84
469	87	0.14	3767	6.21	516	215	0.35	10672	17.59	563	352	0.58	24526	40.42
470	92	0.15	3859	6.36	517	192	0.32	10864	17.90	564	406	0.67	24932	41.08
471	97	0.16	3956	6.52	518	240	0.40	11104	18.30	565	369	0.61	25301	41.69
472	83	0.14	4039	6.66	519	238	0.39	11342	18.69	566	381	0.63	25682	42.32
473	95	0.16	4134	6.81	520	235	0.39	11577	19.08	567	383	0.63	26065	42.95
474	95	0.16	4229	6.97	521	225	0.37	11802	19.45	568	360	0.59	26425	43.54
475	88	0.15	4317	7.11	522	220	0.36	12022	19.81	569	342	0.56	26767	44.11
476	119	0.20	4436	7.31	523	243	0.40	12265	20.21	570	367	0.60	27134	44.71
477	94	0.15	4530	7.46	524	259	0.43	12524	20.64	571	364	0.60	27498	45.31
478	104	0.17	4634	7.64	525	241	0.40	12765	21.03	572	364	0.60	27862	45.91
479	102	0.17	4736	7.80	526	217	0.36	12982	21.39	573	335	0.55	28197	46.46
480	121	0.20	4857	8.00	527	266	0.44	13248	21.83	574	374	0.62	28571	47.08
481	116	0.19	4973	8.19	528	253	0.42	13501	22.25	575	333	0.55	28904	47.63
482	85	0.14	5058	8.33	529	260	0.43	13761	22.68	576	341	0.56	29245	48.19
483	113	0.19	5171	8.52	530	252	0.42	14013	23.09	577	361	0.59	29606	48.79
484	126	0.21	5297	8.73	531	257	0.42	14270	23.51	578	391	0.64	29997	49.43
485	121	0.20	5418	8.93	532	266	0.44	14536	23.95	579	370	0.61	30367	50.04
486	126	0.21	5544	9.14	533	273	0.45	14809	24.40	580	394	0.65	30761	50.69
487	136	0.22	5680	9.36	534	270	0.44	15079	24.85	581	359	0.59	31120	51.28
488	123	0.20	5803	9.56	535	298	0.49	15377	25.34	582	321	0.53	31441	51.81
489	130	0.21	5933	9.78	536	313	0.52	15690	25.85	583	367	0.60	31808	52.41
490	122	0.20	6055	9.98	537	289	0.48	15979	26.33	584	387	0.64	32195	53.05
491	143	0.24	6198	10.21	538	279	0.46	16258	26.79	585	348	0.57	32543	53.63
492	141	0.23	6339	10.45	539	330	0.54	16588	27.33	586	394	0.65	32937	54.28
493	131	0.22	6470	10.66	540	294	0.48	16882	27.82	587	371	0.61	33308	54.89
494	175	0.29	6645	10.95	541	329	0.54	17211	28.36	588	362	0.60	33670	55.48
495	148	0.24	6793	11.19	542	313	0.52	17524	28.88	589	345	0.57	34015	56.05
496	147	0.24	6940	11.44	543	297	0.49	17821	29.37	590	377	0.62	34392	56.67
497	169	0.28	7109	11.71	544	290	0.48	18111	29.84	591	386	0.64	34778	57.31
498	167	0.28	7276	11.99	545	291	0.48	18402	30.32	592	340	0.56	35118	57.87

Table 181. Scale Score Distribution, Mathematics Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
593	401	0.66	35519	58.53	640	226	0.37	50017	82.42	687	116	0.19	57893	95.40
594	343	0.57	35862	59.10	641	254	0.42	50271	82.84	688	102	0.17	57995	95.57
595	383	0.63	36245	59.73	642	219	0.36	50490	83.20	689	92	0.15	58087	95.72
596	371	0.61	36616	60.34	643	223	0.37	50713	83.57	690	84	0.14	58171	95.86
597	375	0.62	36991	60.96	644	256	0.42	50969	83.99	691	80	0.13	58251	95.99
598	380	0.63	37371	61.58	645	252	0.42	51221	84.40	692	82	0.14	58333	96.12
599	374	0.62	37745	62.20	646	224	0.37	51445	84.77	693	82	0.14	58415	96.26
600	331	0.55	38076	62.74	647	198	0.33	51643	85.10	694	74	0.12	58489	96.38
601	344	0.57	38420	63.31	648	218	0.36	51861	85.46	695	72	0.12	58561	96.50
602	337	0.56	38757	63.87	649	205	0.34	52066	85.80	696	77	0.13	58638	96.63
603	312	0.51	39069	64.38	650	216	0.36	52282	86.15	697	81	0.13	58719	96.76
604	331	0.55	39400	64.93	651	202	0.33	52484	86.49	698	59	0.10	58778	96.86
605	344	0.57	39744	65.49	652	227	0.37	52711	86.86	699	60	0.10	58838	96.96
606	321	0.53	40065	66.02	653	191	0.31	52902	87.17	700	71	0.12	58909	97.07
607	376	0.62	40441	66.64	654	195	0.32	53097	87.50	701	57	0.09	58966	97.17
608	365	0.60	40806	67.24	655	201	0.33	53298	87.83	702	69	0.11	59035	97.28
609	347	0.57	41153	67.81	656	192	0.32	53490	88.14	703	63	0.10	59098	97.38
610	373	0.61	41526	68.43	657	230	0.38	53720	88.52	704	58	0.10	59156	97.48
611	312	0.51	41838	68.94	658	195	0.32	53915	88.84	705	68	0.11	59224	97.59
612	350	0.58	42188	69.52	659	167	0.28	54082	89.12	706	56	0.09	59280	97.68
613	313	0.52	42501	70.04	660	194	0.32	54276	89.44	707	53	0.09	59333	97.77
614	291	0.48	42792	70.51	661	166	0.27	54442	89.71	708	48	0.08	59381	97.85
615	332	0.55	43124	71.06	662	152	0.25	54594	89.96	709	50	0.08	59431	97.93
616	330	0.54	43454	71.61	663	156	0.26	54750	90.22	710	39	0.06	59470	98.00
617	305	0.50	43759	72.11	664	144	0.24	54894	90.46	711	48	0.08	59518	98.08
618	314	0.52	44073	72.63	665	181	0.30	55075	90.76	712	50	0.08	59568	98.16
619	309	0.51	44382	73.14	666	165	0.27	55240	91.03	713	48	0.08	59616	98.24
620	321	0.53	44703	73.66	667	149	0.25	55389	91.27	714	50	0.08	59666	98.32
621	313	0.52	45016	74.18	668	137	0.23	55526	91.50	715	43	0.07	59709	98.39
622	297	0.49	45313	74.67	669	141	0.23	55667	91.73	716	36	0.06	59745	98.45
623	283	0.47	45596	75.14	670	151	0.25	55818	91.98	717	35	0.06	59780	98.51
624	285	0.47	45881	75.61	671	159	0.26	55977	92.24	718	26	0.04	59806	98.55
625	258	0.43	46139	76.03	672	153	0.25	56130	92.49	719	40	0.07	59846	98.62
626	287	0.47	46426	76.50	673	141	0.23	56271	92.73	720	34	0.06	59880	98.67
627	282	0.46	46708	76.97	674	134	0.22	56405	92.95	721	30	0.05	59910	98.72
628	284	0.47	46992	77.44	675	117	0.19	56522	93.14	722	25	0.04	59935	98.76
629	284	0.47	47276	77.90	676	115	0.19	56637	93.33	723	33	0.05	59968	98.82
630	240	0.40	47516	78.30	677	128	0.21	56765	93.54	724	30	0.05	59998	98.87
631	227	0.37	47743	78.67	678	130	0.21	56895	93.75	725	23	0.04	60021	98.91
632	267	0.44	48010	79.11	679	116	0.19	57011	93.95	726	15	0.02	60036	98.93
633	275	0.45	48285	79.57	680	120	0.20	57131	94.14	727	30	0.05	60066	98.98
634	258	0.43	48543	79.99	681	119	0.20	57250	94.34	728	32	0.05	60098	99.03
635	237	0.39	48780	80.38	682	109	0.18	57359	94.52	729	25	0.04	60123	99.07
636	269	0.44	49049	80.83	683	98	0.16	57457	94.68	730	26	0.04	60149	99.12
637	251	0.41	49300	81.24	684	106	0.17	57563	94.86	731	24	0.04	60173	99.16
638	247	0.41	49547	81.65	685	111	0.18	57674	95.04	732	19	0.03	60192	99.19
639	244	0.40	49791	82.05	686	103	0.17	57777	95.21	733	25	0.04	60217	99.23

Table 181. Scale Score Distribution, Mathematics Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
734	20	0.03	60237	99.26	781	1	0.00	60612	99.88
735	18	0.03	60255	99.29	782	1	0.00	60613	99.88
736	21	0.03	60276	99.33	783	4	0.01	60617	99.89
737	19	0.03	60295	99.36	785	3	0.00	60620	99.89
738	16	0.03	60311	99.38	786	3	0.00	60623	99.90
739	13	0.02	60324	99.41	787	3	0.00	60626	99.90
740	19	0.03	60343	99.44	788	1	0.00	60627	99.90
741	5	0.01	60348	99.44	789	2	0.00	60629	99.91
742	15	0.02	60363	99.47	791	4	0.01	60633	99.91
743	16	0.03	60379	99.50	792	1	0.00	60634	99.92
744	15	0.02	60394	99.52	793	1	0.00	60635	99.92
745	18	0.03	60412	99.55	794	3	0.00	60638	99.92
746	9	0.01	60421	99.56	795	2	0.00	60640	99.93
747	12	0.02	60433	99.58	797	4	0.01	60644	99.93
748	4	0.01	60437	99.59	800	3	0.00	60647	99.94
749	14	0.02	60451	99.61	801	2	0.00	60649	99.94
750	8	0.01	60459	99.63	802	1	0.00	60650	99.94
751	6	0.01	60465	99.64	803	1	0.00	60651	99.94
752	12	0.02	60477	99.66	805	2	0.00	60653	99.95
753	6	0.01	60483	99.67	807	2	0.00	60655	99.95
754	4	0.01	60487	99.67	808	4	0.01	60659	99.96
755	6	0.01	60493	99.68	809	1	0.00	60660	99.96
756	8	0.01	60501	99.70	810	1	0.00	60661	99.96
757	6	0.01	60507	99.71	811	1	0.00	60662	99.96
758	8	0.01	60515	99.72	812	1	0.00	60663	99.96
759	5	0.01	60520	99.73	820	1	0.00	60664	99.97
760	9	0.01	60529	99.74	823	1	0.00	60665	99.97
761	7	0.01	60536	99.75	832	2	0.00	60667	99.97
762	9	0.01	60545	99.77	836	1	0.00	60668	99.97
763	4	0.01	60549	99.78	839	2	0.00	60670	99.98
764	8	0.01	60557	99.79	840	3	0.00	60673	99.98
765	4	0.01	60561	99.80	844	1	0.00	60674	99.98
766	3	0.00	60564	99.80	847	2	0.00	60676	99.99
767	4	0.01	60568	99.81	849	1	0.00	60677	99.99
768	5	0.01	60573	99.82	850	1	0.00	60678	99.99
769	5	0.01	60578	99.82	853	1	0.00	60679	99.99
770	4	0.01	60582	99.83	855	1	0.00	60680	99.99
771	1	0.00	60583	99.83	857	2	0.00	60682	100.00
772	3	0.00	60586	99.84	890	3	0.00	60685	100.00
773	6	0.01	60592	99.85					
774	4	0.01	60596	99.85					
775	1	0.00	60597	99.85					
776	3	0.00	60600	99.86					
777	3	0.00	60603	99.86					
778	2	0.00	60605	99.87					
779	3	0.00	60608	99.87					
780	3	0.00	60611	99.88					

Table 182. Scale Score Distribution, Science Grade 8

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	506	0.83	506	0.83	347	26	0.04	1101	1.82	394	78	0.13	3187	5.26
301	5	0.01	511	0.84	348	23	0.04	1124	1.85	395	69	0.11	3256	5.37
302	5	0.01	516	0.85	349	22	0.04	1146	1.89	396	69	0.11	3325	5.49
303	4	0.01	520	0.86	350	24	0.04	1170	1.93	397	76	0.13	3401	5.61
304	4	0.01	524	0.86	351	21	0.03	1191	1.96	398	60	0.10	3461	5.71
305	6	0.01	530	0.87	352	24	0.04	1215	2.00	399	73	0.12	3534	5.83
306	10	0.02	540	0.89	353	36	0.06	1251	2.06	400	93	0.15	3627	5.98
307	9	0.01	549	0.91	354	29	0.05	1280	2.11	401	81	0.13	3708	6.12
308	5	0.01	554	0.91	355	28	0.05	1308	2.16	402	66	0.11	3774	6.23
309	7	0.01	561	0.93	356	22	0.04	1330	2.19	403	105	0.17	3879	6.40
310	3	0.00	564	0.93	357	33	0.05	1363	2.25	404	85	0.14	3964	6.54
311	6	0.01	570	0.94	358	22	0.04	1385	2.28	405	87	0.14	4051	6.68
312	11	0.02	581	0.96	359	29	0.05	1414	2.33	406	102	0.17	4153	6.85
313	9	0.01	590	0.97	360	33	0.05	1447	2.39	407	104	0.17	4257	7.02
314	5	0.01	595	0.98	361	29	0.05	1476	2.44	408	102	0.17	4359	7.19
315	7	0.01	602	0.99	362	26	0.04	1502	2.48	409	113	0.19	4472	7.38
316	9	0.01	611	1.01	363	34	0.06	1536	2.53	410	101	0.17	4573	7.54
317	9	0.01	620	1.02	364	40	0.07	1576	2.60	411	123	0.20	4696	7.75
318	15	0.02	635	1.05	365	37	0.06	1613	2.66	412	90	0.15	4786	7.90
319	10	0.02	645	1.06	366	30	0.05	1643	2.71	413	117	0.19	4903	8.09
320	10	0.02	655	1.08	367	47	0.08	1690	2.79	414	113	0.19	5016	8.28
321	10	0.02	665	1.10	368	36	0.06	1726	2.85	415	99	0.16	5115	8.44
322	8	0.01	673	1.11	369	35	0.06	1761	2.91	416	110	0.18	5225	8.62
323	9	0.01	682	1.13	370	39	0.06	1800	2.97	417	123	0.20	5348	8.82
324	14	0.02	696	1.15	371	33	0.05	1833	3.02	418	120	0.20	5468	9.02
325	15	0.02	711	1.17	372	37	0.06	1870	3.08	419	125	0.21	5593	9.23
326	16	0.03	727	1.20	373	50	0.08	1920	3.17	420	119	0.20	5712	9.42
327	18	0.03	745	1.23	374	47	0.08	1967	3.25	421	121	0.20	5833	9.62
328	16	0.03	761	1.26	375	42	0.07	2009	3.31	422	141	0.23	5974	9.86
329	15	0.02	776	1.28	376	44	0.07	2053	3.39	423	146	0.24	6120	10.10
330	17	0.03	793	1.31	377	54	0.09	2107	3.48	424	146	0.24	6266	10.34
331	16	0.03	809	1.33	378	55	0.09	2162	3.57	425	143	0.24	6409	10.57
332	10	0.02	819	1.35	379	43	0.07	2205	3.64	426	143	0.24	6552	10.81
333	14	0.02	833	1.37	380	48	0.08	2253	3.72	427	130	0.21	6682	11.02
334	14	0.02	847	1.40	381	64	0.11	2317	3.82	428	142	0.23	6824	11.26
335	15	0.02	862	1.42	382	57	0.09	2374	3.92	429	141	0.23	6965	11.49
336	22	0.04	884	1.46	383	61	0.10	2435	4.02	430	154	0.25	7119	11.74
337	17	0.03	901	1.49	384	60	0.10	2495	4.12	431	173	0.29	7292	12.03
338	14	0.02	915	1.51	385	65	0.11	2560	4.22	432	158	0.26	7450	12.29
339	24	0.04	939	1.55	386	74	0.12	2634	4.35	433	143	0.24	7593	12.53
340	16	0.03	955	1.58	387	69	0.11	2703	4.46	434	180	0.30	7773	12.82
341	21	0.03	976	1.61	388	60	0.10	2763	4.56	435	172	0.28	7945	13.11
342	17	0.03	993	1.64	389	78	0.13	2841	4.69	436	162	0.27	8107	13.37
343	20	0.03	1013	1.67	390	62	0.10	2903	4.79	437	169	0.28	8276	13.65
344	25	0.04	1038	1.71	391	73	0.12	2976	4.91	438	172	0.28	8448	13.94
345	20	0.03	1058	1.75	392	69	0.11	3045	5.02	439	192	0.32	8640	14.25
346	17	0.03	1075	1.77	393	64	0.11	3109	5.13	440	170	0.28	8810	14.53

Table 182. Scale Score Distribution, Science Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
441	215	0.35	9025	14.89	488	337	0.56	22008	36.31	535	410	0.68	41363	68.24
442	182	0.30	9207	15.19	489	374	0.62	22382	36.92	536	420	0.69	41783	68.93
443	191	0.32	9398	15.50	490	360	0.59	22742	37.52	537	421	0.69	42204	69.63
444	188	0.31	9586	15.81	491	388	0.64	23130	38.16	538	414	0.68	42618	70.31
445	192	0.32	9778	16.13	492	356	0.59	23486	38.75	539	394	0.65	43012	70.96
446	230	0.38	10008	16.51	493	347	0.57	23833	39.32	540	411	0.68	43423	71.64
447	209	0.34	10217	16.86	494	414	0.68	24247	40.00	541	424	0.70	43847	72.34
448	207	0.34	10424	17.20	495	359	0.59	24606	40.59	542	397	0.65	44244	72.99
449	249	0.41	10673	17.61	496	395	0.65	25001	41.24	543	385	0.64	44629	73.63
450	233	0.38	10906	17.99	497	392	0.65	25393	41.89	544	403	0.66	45032	74.29
451	189	0.31	11095	18.30	498	404	0.67	25797	42.56	545	380	0.63	45412	74.92
452	237	0.39	11332	18.69	499	394	0.65	26191	43.21	546	403	0.66	45815	75.58
453	209	0.34	11541	19.04	500	406	0.67	26597	43.88	547	355	0.59	46170	76.17
454	223	0.37	11764	19.41	501	417	0.69	27014	44.57	548	381	0.63	46551	76.80
455	231	0.38	11995	19.79	502	442	0.73	27456	45.29	549	391	0.65	46942	77.44
456	243	0.40	12238	20.19	503	391	0.65	27847	45.94	550	370	0.61	47312	78.05
457	239	0.39	12477	20.58	504	420	0.69	28267	46.63	551	387	0.64	47699	78.69
458	226	0.37	12703	20.96	505	375	0.62	28642	47.25	552	334	0.55	48033	79.24
459	248	0.41	12951	21.37	506	411	0.68	29053	47.93	553	334	0.55	48367	79.79
460	268	0.44	13219	21.81	507	429	0.71	29482	48.64	554	353	0.58	48720	80.37
461	283	0.47	13502	22.27	508	416	0.69	29898	49.32	555	323	0.53	49043	80.91
462	269	0.44	13771	22.72	509	411	0.68	30309	50.00	556	342	0.56	49385	81.47
463	275	0.45	14046	23.17	510	382	0.63	30691	50.63	557	334	0.55	49719	82.02
464	281	0.46	14327	23.64	511	412	0.68	31103	51.31	558	285	0.47	50004	82.49
465	287	0.47	14614	24.11	512	423	0.70	31526	52.01	559	349	0.58	50353	83.07
466	298	0.49	14912	24.60	513	398	0.66	31924	52.67	560	310	0.51	50663	83.58
467	294	0.49	15206	25.09	514	479	0.79	32403	53.46	561	306	0.50	50969	84.09
468	289	0.48	15495	25.56	515	465	0.77	32868	54.22	562	315	0.52	51284	84.60
469	282	0.47	15777	26.03	516	419	0.69	33287	54.91	563	288	0.48	51572	85.08
470	302	0.50	16079	26.53	517	428	0.71	33715	55.62	564	271	0.45	51843	85.53
471	291	0.48	16370	27.01	518	428	0.71	34143	56.33	565	285	0.47	52128	86.00
472	301	0.50	16671	27.50	519	410	0.68	34553	57.00	566	288	0.48	52416	86.47
473	277	0.46	16948	27.96	520	438	0.72	34991	57.73	567	288	0.48	52704	86.95
474	325	0.54	17273	28.50	521	380	0.63	35371	58.35	568	302	0.50	53006	87.45
475	315	0.52	17588	29.02	522	419	0.69	35790	59.04	569	242	0.40	53248	87.84
476	327	0.54	17915	29.55	523	433	0.71	36223	59.76	570	255	0.42	53503	88.27
477	314	0.52	18229	30.07	524	448	0.74	36671	60.50	571	244	0.40	53747	88.67
478	329	0.54	18558	30.62	525	385	0.64	37056	61.13	572	245	0.40	53992	89.07
479	353	0.58	18911	31.20	526	454	0.75	37510	61.88	573	229	0.38	54221	89.45
480	328	0.54	19239	31.74	527	420	0.69	37930	62.57	574	274	0.45	54495	89.90
481	301	0.50	19540	32.24	528	451	0.74	38381	63.32	575	272	0.45	54767	90.35
482	347	0.57	19887	32.81	529	452	0.75	38833	64.06	576	225	0.37	54992	90.72
483	345	0.57	20232	33.38	530	442	0.73	39275	64.79	577	178	0.29	55170	91.02
484	361	0.60	20593	33.97	531	434	0.72	39709	65.51	578	214	0.35	55384	91.37
485	338	0.56	20931	34.53	532	409	0.67	40118	66.18	579	204	0.34	55588	91.71
486	349	0.58	21280	35.11	533	429	0.71	40547	66.89	580	204	0.34	55792	92.04
487	391	0.65	21671	35.75	534	406	0.67	40953	67.56	581	191	0.32	55983	92.36

Table 182. Scale Score Distribution, Science Grade 8 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
582	187	0.31	56170	92.67	629	24	0.04	60247	99.39	678	1	0.00	60604	99.98
583	192	0.32	56362	92.98	630	23	0.04	60270	99.43	679	1	0.00	60605	99.98
584	187	0.31	56549	93.29	631	22	0.04	60292	99.47	681	1	0.00	60606	99.98
585	179	0.30	56728	93.59	632	16	0.03	60308	99.49	682	1	0.00	60607	99.99
586	173	0.29	56901	93.87	633	19	0.03	60327	99.52	683	1	0.00	60608	99.99
587	170	0.28	57071	94.15	634	20	0.03	60347	99.56	684	2	0.00	60610	99.99
588	157	0.26	57228	94.41	635	21	0.03	60368	99.59	685	1	0.00	60611	99.99
589	154	0.25	57382	94.66	636	20	0.03	60388	99.62	691	1	0.00	60612	99.99
590	125	0.21	57507	94.87	637	19	0.03	60407	99.66	694	1	0.00	60613	100.00
591	113	0.19	57620	95.06	638	7	0.01	60414	99.67	695	1	0.00	60614	100.00
592	141	0.23	57761	95.29	639	19	0.03	60433	99.70	707	1	0.00	60615	100.00
593	124	0.20	57885	95.49	640	15	0.02	60448	99.72	719	1	0.00	60616	100.00
594	114	0.19	57999	95.68	641	9	0.01	60457	99.74					
595	148	0.24	58147	95.93	642	7	0.01	60464	99.75					
596	115	0.19	58262	96.12	643	13	0.02	60477	99.77					
597	82	0.14	58344	96.25	644	7	0.01	60484	99.78					
598	91	0.15	58435	96.40	645	9	0.01	60493	99.80					
599	102	0.17	58537	96.57	646	14	0.02	60507	99.82					
600	117	0.19	58654	96.76	647	6	0.01	60513	99.83					
601	79	0.13	58733	96.89	648	3	0.00	60516	99.84					
602	92	0.15	58825	97.05	649	11	0.02	60527	99.85					
603	78	0.13	58903	97.17	650	9	0.01	60536	99.87					
604	93	0.15	58996	97.33	651	9	0.01	60545	99.88					
605	84	0.14	59080	97.47	652	2	0.00	60547	99.89					
606	71	0.12	59151	97.58	653	4	0.01	60551	99.89					
607	65	0.11	59216	97.69	654	2	0.00	60553	99.90					
608	80	0.13	59296	97.82	655	6	0.01	60559	99.91					
609	78	0.13	59374	97.95	656	4	0.01	60563	99.91					
610	73	0.12	59447	98.07	657	3	0.00	60566	99.92					
611	74	0.12	59521	98.19	658	4	0.01	60570	99.92					
612	58	0.10	59579	98.29	659	2	0.00	60572	99.93					
613	54	0.09	59633	98.38	660	2	0.00	60574	99.93					
614	69	0.11	59702	98.49	661	3	0.00	60577	99.94					
615	47	0.08	59749	98.57	662	4	0.01	60581	99.94					
616	53	0.09	59802	98.66	663	4	0.01	60585	99.95					
617	43	0.07	59845	98.73	664	2	0.00	60587	99.95					
618	41	0.07	59886	98.80	665	1	0.00	60588	99.95					
619	53	0.09	59939	98.88	666	3	0.00	60591	99.96					
620	30	0.05	59969	98.93	667	1	0.00	60592	99.96					
621	49	0.08	60018	99.01	668	2	0.00	60594	99.96					
622	38	0.06	60056	99.08	669	3	0.00	60597	99.97					
623	30	0.05	60086	99.13	670	1	0.00	60598	99.97					
624	40	0.07	60126	99.19	671	1	0.00	60599	99.97					
625	18	0.03	60144	99.22	672	1	0.00	60600	99.97					
626	26	0.04	60170	99.26	673	1	0.00	60601	99.98					
627	34	0.06	60204	99.32	674	1	0.00	60602	99.98					
628	19	0.03	60223	99.35	675	1	0.00	60603	99.98					

Table 183. Scale Score Distribution, Reading Grade 9

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
350	257	0.42	257	0.42	462	2	0.00	376	0.62	509	11	0.02	693	1.14
377	1	0.00	258	0.43	463	5	0.01	381	0.63	510	13	0.02	706	1.16
407	1	0.00	259	0.43	464	4	0.01	385	0.63	511	8	0.01	714	1.18
409	2	0.00	261	0.43	465	5	0.01	390	0.64	512	15	0.02	729	1.20
412	1	0.00	262	0.43	466	6	0.01	396	0.65	513	11	0.02	740	1.22
417	2	0.00	264	0.44	467	1	0.00	397	0.65	514	13	0.02	753	1.24
418	2	0.00	266	0.44	468	5	0.01	402	0.66	515	15	0.02	768	1.27
419	1	0.00	267	0.44	469	3	0.00	405	0.67	516	21	0.03	789	1.30
420	5	0.01	272	0.45	470	11	0.02	416	0.69	517	10	0.02	799	1.32
422	1	0.00	273	0.45	471	9	0.01	425	0.70	518	15	0.02	814	1.34
423	1	0.00	274	0.45	472	3	0.00	428	0.71	519	13	0.02	827	1.36
424	1	0.00	275	0.45	473	4	0.01	432	0.71	520	17	0.03	844	1.39
425	2	0.00	277	0.46	474	11	0.02	443	0.73	521	17	0.03	861	1.42
426	1	0.00	278	0.46	475	4	0.01	447	0.74	522	22	0.04	883	1.46
427	3	0.00	281	0.46	476	4	0.01	451	0.74	523	14	0.02	897	1.48
429	3	0.00	284	0.47	477	4	0.01	455	0.75	524	21	0.03	918	1.51
430	1	0.00	285	0.47	478	6	0.01	461	0.76	525	12	0.02	930	1.53
431	1	0.00	286	0.47	479	6	0.01	467	0.77	526	26	0.04	956	1.58
432	1	0.00	287	0.47	480	4	0.01	471	0.78	527	21	0.03	977	1.61
433	4	0.01	291	0.48	481	3	0.00	474	0.78	528	15	0.02	992	1.64
434	4	0.01	295	0.49	482	5	0.01	479	0.79	529	28	0.05	1020	1.68
435	4	0.01	299	0.49	483	3	0.00	482	0.79	530	16	0.03	1036	1.71
436	3	0.00	302	0.50	484	11	0.02	493	0.81	531	26	0.04	1062	1.75
437	3	0.00	305	0.50	485	6	0.01	499	0.82	532	21	0.03	1083	1.79
438	4	0.01	309	0.51	486	4	0.01	503	0.83	533	37	0.06	1120	1.85
439	4	0.01	313	0.52	487	11	0.02	514	0.85	534	30	0.05	1150	1.90
440	5	0.01	318	0.52	488	8	0.01	522	0.86	535	20	0.03	1170	1.93
441	1	0.00	319	0.53	489	6	0.01	528	0.87	536	29	0.05	1199	1.98
443	4	0.01	323	0.53	490	6	0.01	534	0.88	537	33	0.05	1232	2.03
444	3	0.00	326	0.54	491	11	0.02	545	0.90	538	26	0.04	1258	2.07
445	1	0.00	327	0.54	492	6	0.01	551	0.91	539	34	0.06	1292	2.13
446	1	0.00	328	0.54	493	4	0.01	555	0.91	540	38	0.06	1330	2.19
447	2	0.00	330	0.54	494	9	0.01	564	0.93	541	20	0.03	1350	2.23
448	1	0.00	331	0.55	495	7	0.01	571	0.94	542	41	0.07	1391	2.29
449	1	0.00	332	0.55	496	7	0.01	578	0.95	543	40	0.07	1431	2.36
450	5	0.01	337	0.56	497	4	0.01	582	0.96	544	42	0.07	1473	2.43
451	5	0.01	342	0.56	498	7	0.01	589	0.97	545	40	0.07	1513	2.49
452	1	0.00	343	0.57	499	11	0.02	600	0.99	546	39	0.06	1552	2.56
453	4	0.01	347	0.57	500	9	0.01	609	1.00	547	35	0.06	1587	2.62
454	3	0.00	350	0.58	501	11	0.02	620	1.02	548	48	0.08	1635	2.69
455	2	0.00	352	0.58	502	4	0.01	624	1.03	549	42	0.07	1677	2.76
456	2	0.00	354	0.58	503	10	0.02	634	1.05	550	35	0.06	1712	2.82
457	2	0.00	356	0.59	504	9	0.01	643	1.06	551	55	0.09	1767	2.91
458	3	0.00	359	0.59	505	5	0.01	648	1.07	552	43	0.07	1810	2.98
459	4	0.01	363	0.60	506	15	0.02	663	1.09	553	52	0.09	1862	3.07
460	5	0.01	368	0.61	507	9	0.01	672	1.11	554	40	0.07	1902	3.14
461	6	0.01	374	0.62	508	10	0.02	682	1.12	555	53	0.09	1955	3.22

Table 183. Scale Score Distribution, Reading Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
556	44	0.07	1999	3.29	603	205	0.34	7240	11.93	650	485	0.80	23257	38.33
557	53	0.09	2052	3.38	604	165	0.27	7405	12.21	651	424	0.70	23681	39.03
558	49	0.08	2101	3.46	605	218	0.36	7623	12.57	652	488	0.80	24169	39.84
559	64	0.11	2165	3.57	606	195	0.32	7818	12.89	653	534	0.88	24703	40.72
560	46	0.08	2211	3.64	607	250	0.41	8068	13.30	654	485	0.80	25188	41.52
561	55	0.09	2266	3.74	608	218	0.36	8286	13.66	655	526	0.87	25714	42.38
562	63	0.10	2329	3.84	609	215	0.35	8501	14.01	656	521	0.86	26235	43.24
563	66	0.11	2395	3.95	610	244	0.40	8745	14.41	657	561	0.92	26796	44.17
564	49	0.08	2444	4.03	611	223	0.37	8968	14.78	658	550	0.91	27346	45.07
565	73	0.12	2517	4.15	612	268	0.44	9236	15.22	659	479	0.79	27825	45.86
566	82	0.14	2599	4.28	613	263	0.43	9499	15.66	660	509	0.84	28334	46.70
567	68	0.11	2667	4.40	614	233	0.38	9732	16.04	661	550	0.91	28884	47.61
568	66	0.11	2733	4.50	615	264	0.44	9996	16.48	662	578	0.95	29462	48.56
569	72	0.12	2805	4.62	616	266	0.44	10262	16.92	663	571	0.94	30033	49.50
570	75	0.12	2880	4.75	617	264	0.44	10526	17.35	664	538	0.89	30571	50.39
571	86	0.14	2966	4.89	618	308	0.51	10834	17.86	665	582	0.96	31153	51.35
572	69	0.11	3035	5.00	619	268	0.44	11102	18.30	666	541	0.89	31694	52.24
573	76	0.13	3111	5.13	620	276	0.45	11378	18.75	667	573	0.94	32267	53.19
574	91	0.15	3202	5.28	621	273	0.45	11651	19.20	668	601	0.99	32868	54.18
575	89	0.15	3291	5.42	622	283	0.47	11934	19.67	669	538	0.89	33406	55.06
576	100	0.16	3391	5.59	623	284	0.47	12218	20.14	670	543	0.90	33949	55.96
577	99	0.16	3490	5.75	624	291	0.48	12509	20.62	671	530	0.87	34479	56.83
578	88	0.15	3578	5.90	625	312	0.51	12821	21.13	672	540	0.89	35019	57.72
579	116	0.19	3694	6.09	626	333	0.55	13154	21.68	673	540	0.89	35559	58.61
580	107	0.18	3801	6.27	627	361	0.60	13515	22.28	674	557	0.92	36116	59.53
581	113	0.19	3914	6.45	628	343	0.57	13858	22.84	675	591	0.97	36707	60.50
582	115	0.19	4029	6.64	629	364	0.60	14222	23.44	676	552	0.91	37259	61.41
583	115	0.19	4144	6.83	630	330	0.54	14552	23.99	677	487	0.80	37746	62.22
584	114	0.19	4258	7.02	631	354	0.58	14906	24.57	678	526	0.87	38272	63.08
585	119	0.20	4377	7.21	632	356	0.59	15262	25.16	679	554	0.91	38826	64.00
586	123	0.20	4500	7.42	633	424	0.70	15686	25.86	680	485	0.80	39311	64.80
587	122	0.20	4622	7.62	634	400	0.66	16086	26.51	681	541	0.89	39852	65.69
588	123	0.20	4745	7.82	635	417	0.69	16503	27.20	682	524	0.86	40376	66.55
589	130	0.21	4875	8.04	636	393	0.65	16896	27.85	683	508	0.84	40884	67.39
590	140	0.23	5015	8.27	637	419	0.69	17315	28.54	684	510	0.84	41394	68.23
591	144	0.24	5159	8.50	638	422	0.70	17737	29.24	685	496	0.82	41890	69.05
592	140	0.23	5299	8.73	639	419	0.69	18156	29.93	686	519	0.86	42409	69.90
593	147	0.24	5446	8.98	640	408	0.67	18564	30.60	687	513	0.85	42922	70.75
594	169	0.28	5615	9.26	641	462	0.76	19026	31.36	688	465	0.77	43387	71.52
595	168	0.28	5783	9.53	642	433	0.71	19459	32.07	689	486	0.80	43873	72.32
596	153	0.25	5936	9.78	643	466	0.77	19925	32.84	690	461	0.76	44334	73.08
597	162	0.27	6098	10.05	644	465	0.77	20390	33.61	691	497	0.82	44831	73.90
598	175	0.29	6273	10.34	645	470	0.77	20860	34.38	692	507	0.84	45338	74.73
599	186	0.31	6459	10.65	646	454	0.75	21314	35.13	693	485	0.80	45823	75.53
600	200	0.33	6659	10.98	647	465	0.77	21779	35.90	694	518	0.85	46341	76.38
601	197	0.32	6856	11.30	648	492	0.81	22271	36.71	695	476	0.78	46817	77.17
602	179	0.30	7035	11.60	649	501	0.83	22772	37.54	696	421	0.69	47238	77.86

Table 183. Scale Score Distribution, Reading Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
697	437	0.72	47675	78.58	744	96	0.16	59047	97.33	791	4	0.01	60568	99.84
698	448	0.74	48123	79.32	745	84	0.14	59131	97.47	792	9	0.01	60577	99.85
699	408	0.67	48531	79.99	746	79	0.13	59210	97.60	793	6	0.01	60583	99.86
700	416	0.69	48947	80.68	747	80	0.13	59290	97.73	794	5	0.01	60588	99.87
701	392	0.65	49339	81.33	748	88	0.15	59378	97.87	795	3	0.00	60591	99.87
702	357	0.59	49696	81.91	749	63	0.10	59441	97.98	796	6	0.01	60597	99.88
703	367	0.60	50063	82.52	750	61	0.10	59502	98.08	797	5	0.01	60602	99.89
704	391	0.64	50454	83.16	751	70	0.12	59572	98.19	798	2	0.00	60604	99.89
705	327	0.54	50781	83.70	752	60	0.10	59632	98.29	799	4	0.01	60608	99.90
706	365	0.60	51146	84.30	753	51	0.08	59683	98.38	800	4	0.01	60612	99.91
707	322	0.53	51468	84.84	754	46	0.08	59729	98.45	801	3	0.00	60615	99.91
708	346	0.57	51814	85.41	755	59	0.10	59788	98.55	802	1	0.00	60616	99.91
709	339	0.56	52153	85.96	756	54	0.09	59842	98.64	803	4	0.01	60620	99.92
710	320	0.53	52473	86.49	757	56	0.09	59898	98.73	804	5	0.01	60625	99.93
711	304	0.50	52777	86.99	758	41	0.07	59939	98.80	805	4	0.01	60629	99.94
712	327	0.54	53104	87.53	759	38	0.06	59977	98.86	806	3	0.00	60632	99.94
713	336	0.55	53440	88.09	760	46	0.08	60023	98.94	807	4	0.01	60636	99.95
714	301	0.50	53741	88.58	761	30	0.05	60053	98.99	808	2	0.00	60638	99.95
715	254	0.42	53995	89.00	762	44	0.07	60097	99.06	810	2	0.00	60640	99.95
716	290	0.48	54285	89.48	763	36	0.06	60133	99.12	811	3	0.00	60643	99.96
717	235	0.39	54520	89.87	764	25	0.04	60158	99.16	812	3	0.00	60646	99.96
718	244	0.40	54764	90.27	765	40	0.07	60198	99.23	813	1	0.00	60647	99.97
719	262	0.43	55026	90.70	766	17	0.03	60215	99.25	815	1	0.00	60648	99.97
720	209	0.34	55235	91.04	767	31	0.05	60246	99.30	816	2	0.00	60650	99.97
721	248	0.41	55483	91.45	768	18	0.03	60264	99.33	817	1	0.00	60651	99.97
722	249	0.41	55732	91.86	769	23	0.04	60287	99.37	821	1	0.00	60652	99.97
723	228	0.38	55960	92.24	770	25	0.04	60312	99.41	822	1	0.00	60653	99.98
724	188	0.31	56148	92.55	771	27	0.04	60339	99.46	825	1	0.00	60654	99.98
725	211	0.35	56359	92.90	772	21	0.03	60360	99.49	827	1	0.00	60655	99.98
726	199	0.33	56558	93.23	773	18	0.03	60378	99.52	828	1	0.00	60656	99.98
727	200	0.33	56758	93.56	774	13	0.02	60391	99.54	829	1	0.00	60657	99.98
728	181	0.30	56939	93.85	775	12	0.02	60403	99.56	830	2	0.00	60659	99.99
729	169	0.28	57108	94.13	776	12	0.02	60415	99.58	831	1	0.00	60660	99.99
730	147	0.24	57255	94.37	777	17	0.03	60432	99.61	837	1	0.00	60661	99.99
731	154	0.25	57409	94.63	778	21	0.03	60453	99.65	841	1	0.00	60662	99.99
732	167	0.28	57576	94.90	779	17	0.03	60470	99.67	846	2	0.00	60664	99.99
733	132	0.22	57708	95.12	780	11	0.02	60481	99.69	851	1	0.00	60665	100.00
734	144	0.24	57852	95.36	781	10	0.02	60491	99.71	854	1	0.00	60666	100.00
735	137	0.23	57989	95.58	782	9	0.01	60500	99.72	856	1	0.00	60667	100.00
736	135	0.22	58124	95.81	783	9	0.01	60509	99.74	862	1	0.00	60668	100.00
737	145	0.24	58269	96.05	784	12	0.02	60521	99.76					
738	127	0.21	58396	96.26	785	11	0.02	60532	99.78					
739	102	0.17	58498	96.42	786	4	0.01	60536	99.78					
740	100	0.16	58598	96.59	787	7	0.01	60543	99.79					
741	105	0.17	58703	96.76	788	4	0.01	60547	99.80					
742	129	0.21	58832	96.97	789	9	0.01	60556	99.82					
743	119	0.20	58951	97.17	790	8	0.01	60564	99.83					

Table 184. Scale Score Distribution, Writing Grade 9

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
260	38	0.06	38	0.06	324	4	0.01	125	0.21	371	10	0.02	423	0.70
261	1	0.00	39	0.06	325	2	0.00	127	0.21	372	10	0.02	433	0.71
265	1	0.00	40	0.07	326	3	0.00	130	0.21	373	12	0.02	445	0.73
267	1	0.00	41	0.07	327	1	0.00	131	0.22	374	11	0.02	456	0.75
272	2	0.00	43	0.07	328	2	0.00	133	0.22	375	11	0.02	467	0.77
273	1	0.00	44	0.07	329	3	0.00	136	0.22	376	20	0.03	487	0.80
274	2	0.00	46	0.08	330	3	0.00	139	0.23	377	15	0.02	502	0.83
276	2	0.00	48	0.08	331	2	0.00	141	0.23	378	13	0.02	515	0.85
277	3	0.00	51	0.08	332	2	0.00	143	0.24	379	19	0.03	534	0.88
278	1	0.00	52	0.09	333	6	0.01	149	0.25	380	16	0.03	550	0.91
280	1	0.00	53	0.09	334	9	0.01	158	0.26	381	7	0.01	557	0.92
281	2	0.00	55	0.09	335	5	0.01	163	0.27	382	13	0.02	570	0.94
282	1	0.00	56	0.09	336	2	0.00	165	0.27	383	11	0.02	581	0.96
283	2	0.00	58	0.10	337	6	0.01	171	0.28	384	19	0.03	600	0.99
284	1	0.00	59	0.10	338	5	0.01	176	0.29	385	19	0.03	619	1.02
286	1	0.00	60	0.10	339	3	0.00	179	0.29	386	13	0.02	632	1.04
287	1	0.00	61	0.10	340	6	0.01	185	0.30	387	14	0.02	646	1.06
289	3	0.00	64	0.11	341	2	0.00	187	0.31	388	13	0.02	659	1.09
290	1	0.00	65	0.11	342	4	0.01	191	0.31	389	19	0.03	678	1.12
291	4	0.01	69	0.11	343	7	0.01	198	0.33	390	17	0.03	695	1.14
293	2	0.00	71	0.12	344	8	0.01	206	0.34	391	17	0.03	712	1.17
294	1	0.00	72	0.12	345	3	0.00	209	0.34	392	12	0.02	724	1.19
295	1	0.00	73	0.12	346	10	0.02	219	0.36	393	20	0.03	744	1.23
296	1	0.00	74	0.12	347	6	0.01	225	0.37	394	14	0.02	758	1.25
297	1	0.00	75	0.12	348	4	0.01	229	0.38	395	18	0.03	776	1.28
298	2	0.00	77	0.13	349	4	0.01	233	0.38	396	14	0.02	790	1.30
299	5	0.01	82	0.14	350	7	0.01	240	0.40	397	18	0.03	808	1.33
300	1	0.00	83	0.14	351	5	0.01	245	0.40	398	17	0.03	825	1.36
301	3	0.00	86	0.14	352	10	0.02	255	0.42	399	18	0.03	843	1.39
303	2	0.00	88	0.14	353	8	0.01	263	0.43	400	19	0.03	862	1.42
304	1	0.00	89	0.15	354	6	0.01	269	0.44	401	21	0.03	883	1.45
305	1	0.00	90	0.15	355	10	0.02	279	0.46	402	20	0.03	903	1.49
307	2	0.00	92	0.15	356	11	0.02	290	0.48	403	17	0.03	920	1.52
308	2	0.00	94	0.15	357	9	0.01	299	0.49	404	22	0.04	942	1.55
309	1	0.00	95	0.16	358	8	0.01	307	0.51	405	20	0.03	962	1.58
310	2	0.00	97	0.16	359	4	0.01	311	0.51	406	13	0.02	975	1.61
311	2	0.00	99	0.16	360	9	0.01	320	0.53	407	28	0.05	1003	1.65
312	2	0.00	101	0.17	361	11	0.02	331	0.55	408	30	0.05	1033	1.70
313	3	0.00	104	0.17	362	6	0.01	337	0.56	409	24	0.04	1057	1.74
315	1	0.00	105	0.17	363	7	0.01	344	0.57	410	24	0.04	1081	1.78
317	3	0.00	108	0.18	364	8	0.01	352	0.58	411	29	0.05	1110	1.83
318	2	0.00	110	0.18	365	10	0.02	362	0.60	412	27	0.04	1137	1.87
319	1	0.00	111	0.18	366	13	0.02	375	0.62	413	21	0.03	1158	1.91
320	2	0.00	113	0.19	367	13	0.02	388	0.64	414	28	0.05	1186	1.95
321	2	0.00	115	0.19	368	4	0.01	392	0.65	415	25	0.04	1211	1.99
322	1	0.00	116	0.19	369	11	0.02	403	0.66	416	36	0.06	1247	2.05
323	5	0.01	121	0.20	370	10	0.02	413	0.68	417	33	0.05	1280	2.11

Table 184. Scale Score Distribution, Writing Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
418	30	0.05	1310	2.16	465	110	0.18	4293	7.07	512	229	0.38	12097	19.92
419	29	0.05	1339	2.21	466	104	0.17	4397	7.24	513	217	0.36	12314	20.28
420	25	0.04	1364	2.25	467	112	0.18	4509	7.43	514	259	0.43	12573	20.71
421	39	0.06	1403	2.31	468	110	0.18	4619	7.61	515	248	0.41	12821	21.12
422	27	0.04	1430	2.36	469	104	0.17	4723	7.78	516	273	0.45	13094	21.57
423	36	0.06	1466	2.41	470	100	0.16	4823	7.94	517	232	0.38	13326	21.95
424	34	0.06	1500	2.47	471	133	0.22	4956	8.16	518	243	0.40	13569	22.35
425	44	0.07	1544	2.54	472	114	0.19	5070	8.35	519	266	0.44	13835	22.79
426	38	0.06	1582	2.61	473	116	0.19	5186	8.54	520	223	0.37	14058	23.15
427	36	0.06	1618	2.66	474	121	0.20	5307	8.74	521	287	0.47	14345	23.63
428	40	0.07	1658	2.73	475	110	0.18	5417	8.92	522	248	0.41	14593	24.04
429	33	0.05	1691	2.79	476	115	0.19	5532	9.11	523	253	0.42	14846	24.45
430	45	0.07	1736	2.86	477	140	0.23	5672	9.34	524	270	0.44	15116	24.90
431	39	0.06	1775	2.92	478	131	0.22	5803	9.56	525	247	0.41	15363	25.30
432	48	0.08	1823	3.00	479	141	0.23	5944	9.79	526	262	0.43	15625	25.74
433	49	0.08	1872	3.08	480	127	0.21	6071	10.00	527	312	0.51	15937	26.25
434	55	0.09	1927	3.17	481	145	0.24	6216	10.24	528	285	0.47	16222	26.72
435	42	0.07	1969	3.24	482	168	0.28	6384	10.52	529	275	0.45	16497	27.17
436	49	0.08	2018	3.32	483	158	0.26	6542	10.78	530	265	0.44	16762	27.61
437	48	0.08	2066	3.40	484	152	0.25	6694	11.03	531	259	0.43	17021	28.04
438	37	0.06	2103	3.46	485	163	0.27	6857	11.29	532	283	0.47	17304	28.50
439	62	0.10	2165	3.57	486	159	0.26	7016	11.56	533	302	0.50	17606	29.00
440	58	0.10	2223	3.66	487	148	0.24	7164	11.80	534	275	0.45	17881	29.45
441	54	0.09	2277	3.75	488	147	0.24	7311	12.04	535	272	0.45	18153	29.90
442	50	0.08	2327	3.83	489	166	0.27	7477	12.32	536	264	0.43	18417	30.33
443	68	0.11	2395	3.94	490	165	0.27	7642	12.59	537	319	0.53	18736	30.86
444	65	0.11	2460	4.05	491	167	0.28	7809	12.86	538	304	0.50	19040	31.36
445	65	0.11	2525	4.16	492	158	0.26	7967	13.12	539	315	0.52	19355	31.88
446	59	0.10	2584	4.26	493	176	0.29	8143	13.41	540	308	0.51	19663	32.39
447	76	0.13	2660	4.38	494	187	0.31	8330	13.72	541	313	0.52	19976	32.90
448	77	0.13	2737	4.51	495	159	0.26	8489	13.98	542	306	0.50	20282	33.41
449	84	0.14	2821	4.65	496	196	0.32	8685	14.31	543	308	0.51	20590	33.91
450	71	0.12	2892	4.76	497	199	0.33	8884	14.63	544	336	0.55	20926	34.47
451	81	0.13	2973	4.90	498	187	0.31	9071	14.94	545	319	0.53	21245	34.99
452	92	0.15	3065	5.05	499	205	0.34	9276	15.28	546	298	0.49	21543	35.48
453	81	0.13	3146	5.18	500	196	0.32	9472	15.60	547	317	0.52	21860	36.01
454	88	0.14	3234	5.33	501	182	0.30	9654	15.90	548	337	0.56	22197	36.56
455	75	0.12	3309	5.45	502	196	0.32	9850	16.22	549	325	0.54	22522	37.10
456	95	0.16	3404	5.61	503	178	0.29	10028	16.52	550	333	0.55	22855	37.64
457	89	0.15	3493	5.75	504	240	0.40	10268	16.91	551	344	0.57	23199	38.21
458	94	0.15	3587	5.91	505	221	0.36	10489	17.28	552	346	0.57	23545	38.78
459	87	0.14	3674	6.05	506	237	0.39	10726	17.67	553	338	0.56	23883	39.34
460	110	0.18	3784	6.23	507	222	0.37	10948	18.03	554	334	0.55	24217	39.89
461	87	0.14	3871	6.38	508	239	0.39	11187	18.43	555	305	0.50	24522	40.39
462	102	0.17	3973	6.54	509	215	0.35	11402	18.78	556	335	0.55	24857	40.94
463	108	0.18	4081	6.72	510	248	0.41	11650	19.19	557	330	0.54	25187	41.49
464	102	0.17	4183	6.89	511	218	0.36	11868	19.55	558	325	0.54	25512	42.02

Table 184. Scale Score Distribution, Writing Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
559	325	0.54	25837	42.56	606	315	0.52	41765	68.79	653	152	0.25	53040	87.36
560	348	0.57	26185	43.13	607	334	0.55	42099	69.34	654	154	0.25	53194	87.62
561	331	0.55	26516	43.67	608	313	0.52	42412	69.86	655	173	0.28	53367	87.90
562	315	0.52	26831	44.19	609	280	0.46	42692	70.32	656	174	0.29	53541	88.19
563	357	0.59	27188	44.78	610	325	0.54	43017	70.85	657	192	0.32	53733	88.50
564	342	0.56	27530	45.34	611	293	0.48	43310	71.34	658	150	0.25	53883	88.75
565	365	0.60	27895	45.95	612	275	0.45	43585	71.79	659	160	0.26	54043	89.01
566	321	0.53	28216	46.47	613	291	0.48	43876	72.27	660	119	0.20	54162	89.21
567	350	0.58	28566	47.05	614	305	0.50	44181	72.77	661	94	0.15	54256	89.36
568	364	0.60	28930	47.65	615	294	0.48	44475	73.25	662	114	0.19	54370	89.55
569	369	0.61	29299	48.26	616	284	0.47	44759	73.72	663	117	0.19	54487	89.75
570	352	0.58	29651	48.84	617	277	0.46	45036	74.18	664	139	0.23	54626	89.97
571	357	0.59	30008	49.43	618	304	0.50	45340	74.68	665	139	0.23	54765	90.20
572	369	0.61	30377	50.03	619	284	0.47	45624	75.15	666	142	0.23	54907	90.44
573	361	0.59	30738	50.63	620	254	0.42	45878	75.57	667	178	0.29	55085	90.73
574	346	0.57	31084	51.20	621	261	0.43	46139	76.00	668	136	0.22	55221	90.95
575	339	0.56	31423	51.76	622	270	0.44	46409	76.44	669	132	0.22	55353	91.17
576	347	0.57	31770	52.33	623	263	0.43	46672	76.87	670	108	0.18	55461	91.35
577	366	0.60	32136	52.93	624	274	0.45	46946	77.32	671	108	0.18	55569	91.53
578	383	0.63	32519	53.56	625	263	0.43	47209	77.76	672	109	0.18	55678	91.71
579	346	0.57	32865	54.13	626	266	0.44	47475	78.20	673	109	0.18	55787	91.89
580	338	0.56	33203	54.69	627	277	0.46	47752	78.65	674	75	0.12	55862	92.01
581	348	0.57	33551	55.26	628	252	0.42	48004	79.07	675	109	0.18	55971	92.19
582	357	0.59	33908	55.85	629	248	0.41	48252	79.48	676	84	0.14	56055	92.33
583	352	0.58	34260	56.43	630	232	0.38	48484	79.86	677	113	0.19	56168	92.51
584	323	0.53	34583	56.96	631	256	0.42	48740	80.28	678	110	0.18	56278	92.70
585	370	0.61	34953	57.57	632	239	0.39	48979	80.67	679	100	0.16	56378	92.86
586	336	0.55	35289	58.12	633	243	0.40	49222	81.07	680	131	0.22	56509	93.08
587	368	0.61	35657	58.73	634	233	0.38	49455	81.46	681	86	0.14	56595	93.22
588	333	0.55	35990	59.28	635	214	0.35	49669	81.81	682	98	0.16	56693	93.38
589	332	0.55	36322	59.83	636	198	0.33	49867	82.14	683	79	0.13	56772	93.51
590	350	0.58	36672	60.40	637	194	0.32	50061	82.46	684	71	0.12	56843	93.63
591	342	0.56	37014	60.97	638	239	0.39	50300	82.85	685	78	0.13	56921	93.75
592	331	0.55	37345	61.51	639	208	0.34	50508	83.19	686	65	0.11	56986	93.86
593	329	0.54	37674	62.05	640	216	0.36	50724	83.55	687	72	0.12	57058	93.98
594	323	0.53	37997	62.58	641	183	0.30	50907	83.85	688	74	0.12	57132	94.10
595	347	0.57	38344	63.16	642	193	0.32	51100	84.17	689	77	0.13	57209	94.23
596	298	0.49	38642	63.65	643	178	0.29	51278	84.46	690	76	0.13	57285	94.35
597	303	0.50	38945	64.15	644	192	0.32	51470	84.78	691	102	0.17	57387	94.52
598	341	0.56	39286	64.71	645	192	0.32	51662	85.09	692	75	0.12	57462	94.65
599	325	0.54	39611	65.24	646	176	0.29	51838	85.38	693	83	0.14	57545	94.78
600	316	0.52	39927	65.76	647	210	0.35	52048	85.73	694	93	0.15	57638	94.94
601	308	0.51	40235	66.27	648	180	0.30	52228	86.02	695	77	0.13	57715	95.06
602	308	0.51	40543	66.78	649	192	0.32	52420	86.34	696	78	0.13	57793	95.19
603	298	0.49	40841	67.27	650	155	0.26	52575	86.60	697	64	0.11	57857	95.30
604	321	0.53	41162	67.80	651	168	0.28	52743	86.87	698	68	0.11	57925	95.41
605	288	0.47	41450	68.27	652	145	0.24	52888	87.11	699	56	0.09	57981	95.50

Table 184. Scale Score Distribution, Writing Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
700	62	0.10	58043	95.60	747	25	0.04	59751	98.42	794	15	0.02	60369	99.43
701	48	0.08	58091	95.68	748	24	0.04	59775	98.46	795	3	0.00	60372	99.44
702	54	0.09	58145	95.77	749	14	0.02	59789	98.48	796	15	0.02	60387	99.46
703	36	0.06	58181	95.83	750	32	0.05	59821	98.53	797	15	0.02	60402	99.49
704	47	0.08	58228	95.91	751	24	0.04	59845	98.57	798	32	0.05	60434	99.54
705	47	0.08	58275	95.98	752	51	0.08	59896	98.65	799	10	0.02	60444	99.56
706	36	0.06	58311	96.04	753	27	0.04	59923	98.70	800	2	0.00	60446	99.56
707	49	0.08	58360	96.12	754	26	0.04	59949	98.74	801	31	0.05	60477	99.61
708	57	0.09	58417	96.22	755	23	0.04	59972	98.78	802	1	0.00	60478	99.61
709	51	0.08	58468	96.30	756	10	0.02	59982	98.80	803	27	0.04	60505	99.66
710	61	0.10	58529	96.40	757	48	0.08	60030	98.88	804	14	0.02	60519	99.68
711	62	0.10	58591	96.50	758	14	0.02	60044	98.90	805	1	0.00	60520	99.68
712	71	0.12	58662	96.62	759	10	0.02	60054	98.91	806	3	0.00	60523	99.69
713	51	0.08	58713	96.71	760	17	0.03	60071	98.94	807	3	0.00	60526	99.69
714	66	0.11	58779	96.81	761	7	0.01	60078	98.95	808	3	0.00	60529	99.70
715	42	0.07	58821	96.88	762	8	0.01	60086	98.97	810	2	0.00	60531	99.70
716	40	0.07	58861	96.95	763	5	0.01	60091	98.98	811	1	0.00	60532	99.70
717	29	0.05	58890	97.00	764	7	0.01	60098	98.99	812	1	0.00	60533	99.70
718	47	0.08	58937	97.07	765	5	0.01	60103	99.00	814	4	0.01	60537	99.71
719	27	0.04	58964	97.12	766	4	0.01	60107	99.00	815	3	0.00	60540	99.72
720	25	0.04	58989	97.16	767	5	0.01	60112	99.01	817	1	0.00	60541	99.72
721	23	0.04	59012	97.20	768	3	0.00	60115	99.02	818	3	0.00	60544	99.72
722	37	0.06	59049	97.26	769	2	0.00	60117	99.02	819	2	0.00	60546	99.72
723	32	0.05	59081	97.31	770	13	0.02	60130	99.04	820	2	0.00	60548	99.73
724	39	0.06	59120	97.38	771	4	0.01	60134	99.05	821	26	0.04	60574	99.77
725	17	0.03	59137	97.40	772	13	0.02	60147	99.07	823	1	0.00	60575	99.77
726	30	0.05	59167	97.45	773	15	0.02	60162	99.09	825	2	0.00	60577	99.78
727	33	0.05	59200	97.51	774	13	0.02	60175	99.11	826	4	0.01	60581	99.78
728	38	0.06	59238	97.57	775	10	0.02	60185	99.13	827	2	0.00	60583	99.79
729	33	0.05	59271	97.62	776	8	0.01	60193	99.14	828	2	0.00	60585	99.79
730	43	0.07	59314	97.70	777	38	0.06	60231	99.21	829	9	0.01	60594	99.80
731	36	0.06	59350	97.76	778	14	0.02	60245	99.23	831	13	0.02	60607	99.83
732	49	0.08	59399	97.84	779	29	0.05	60274	99.28	833	1	0.00	60608	99.83
733	69	0.11	59468	97.95	780	14	0.02	60288	99.30	834	13	0.02	60621	99.85
734	29	0.05	59497	98.00	781	1	0.00	60289	99.30	835	7	0.01	60628	99.86
735	31	0.05	59528	98.05	782	17	0.03	60306	99.33	836	3	0.00	60631	99.86
736	25	0.04	59553	98.09	783	5	0.01	60311	99.34	837	9	0.01	60640	99.88
737	25	0.04	59578	98.13	784	3	0.00	60314	99.34	838	2	0.00	60642	99.88
738	20	0.03	59598	98.16	785	4	0.01	60318	99.35	839	1	0.00	60643	99.88
739	18	0.03	59616	98.19	786	1	0.00	60319	99.35	841	2	0.00	60645	99.89
740	18	0.03	59634	98.22	787	2	0.00	60321	99.35	842	8	0.01	60653	99.90
741	11	0.02	59645	98.24	788	7	0.01	60328	99.37	844	3	0.00	60656	99.91
742	9	0.01	59654	98.26	789	5	0.01	60333	99.37	846	1	0.00	60657	99.91
743	11	0.02	59665	98.27	790	7	0.01	60340	99.39	849	2	0.00	60659	99.91
744	24	0.04	59689	98.31	791	5	0.01	60345	99.39	855	1	0.00	60660	99.91
745	24	0.04	59713	98.35	792	7	0.01	60352	99.41	857	2	0.00	60662	99.92
746	13	0.02	59726	98.37	793	2	0.00	60354	99.41	864	2	0.00	60664	99.92

Table 184. Scale Score Distribution, Writing Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
868	1	0.00	60665	99.92
869	3	0.00	60668	99.93
870	5	0.01	60673	99.93
872	6	0.01	60679	99.94
873	2	0.00	60681	99.95
875	5	0.01	60686	99.96
881	13	0.02	60699	99.98
887	3	0.00	60702	99.98
904	1	0.00	60703	99.98
930	10	0.02	60713	100.00

Table 185. Scale Score Distribution, Mathematics Grade 9

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
340	762	1.25	762	1.25	387	12	0.02	1190	1.96	434	43	0.07	2375	3.90
341	2	0.00	764	1.26	388	18	0.03	1208	1.99	435	33	0.05	2408	3.96
342	4	0.01	768	1.26	389	10	0.02	1218	2.00	436	44	0.07	2452	4.03
343	7	0.01	775	1.27	390	11	0.02	1229	2.02	437	35	0.06	2487	4.09
344	2	0.00	777	1.28	391	14	0.02	1243	2.04	438	39	0.06	2526	4.15
345	3	0.00	780	1.28	392	13	0.02	1256	2.06	439	49	0.08	2575	4.23
346	4	0.01	784	1.29	393	15	0.02	1271	2.09	440	30	0.05	2605	4.28
347	11	0.02	795	1.31	394	21	0.03	1292	2.12	441	58	0.10	2663	4.38
348	5	0.01	800	1.31	395	17	0.03	1309	2.15	442	59	0.10	2722	4.47
349	7	0.01	807	1.33	396	22	0.04	1331	2.19	443	47	0.08	2769	4.55
350	4	0.01	811	1.33	397	16	0.03	1347	2.21	444	62	0.10	2831	4.65
351	5	0.01	816	1.34	398	15	0.02	1362	2.24	445	64	0.11	2895	4.76
352	10	0.02	826	1.36	399	23	0.04	1385	2.28	446	57	0.09	2952	4.85
353	6	0.01	832	1.37	400	17	0.03	1402	2.30	447	54	0.09	3006	4.94
354	7	0.01	839	1.38	401	10	0.02	1412	2.32	448	59	0.10	3065	5.04
355	6	0.01	845	1.39	402	25	0.04	1437	2.36	449	41	0.07	3106	5.10
356	5	0.01	850	1.40	403	17	0.03	1454	2.39	450	58	0.10	3164	5.20
357	10	0.02	860	1.41	404	17	0.03	1471	2.42	451	56	0.09	3220	5.29
358	2	0.00	862	1.42	405	20	0.03	1491	2.45	452	51	0.08	3271	5.38
359	5	0.01	867	1.42	406	22	0.04	1513	2.49	453	70	0.12	3341	5.49
360	5	0.01	872	1.43	407	16	0.03	1529	2.51	454	70	0.12	3411	5.61
361	12	0.02	884	1.45	408	24	0.04	1553	2.55	455	60	0.10	3471	5.70
362	10	0.02	894	1.47	409	28	0.05	1581	2.60	456	71	0.12	3542	5.82
363	12	0.02	906	1.49	410	29	0.05	1610	2.65	457	55	0.09	3597	5.91
364	7	0.01	913	1.50	411	25	0.04	1635	2.69	458	66	0.11	3663	6.02
365	10	0.02	923	1.52	412	27	0.04	1662	2.73	459	81	0.13	3744	6.15
366	8	0.01	931	1.53	413	23	0.04	1685	2.77	460	78	0.13	3822	6.28
367	7	0.01	938	1.54	414	26	0.04	1711	2.81	461	76	0.12	3898	6.41
368	6	0.01	944	1.55	415	22	0.04	1733	2.85	462	72	0.12	3970	6.52
369	10	0.02	954	1.57	416	33	0.05	1766	2.90	463	69	0.11	4039	6.64
370	12	0.02	966	1.59	417	30	0.05	1796	2.95	464	87	0.14	4126	6.78
371	13	0.02	979	1.61	418	28	0.05	1824	3.00	465	79	0.13	4205	6.91
372	6	0.01	985	1.62	419	31	0.05	1855	3.05	466	81	0.13	4286	7.04
373	8	0.01	993	1.63	420	28	0.05	1883	3.09	467	89	0.15	4375	7.19
374	14	0.02	1007	1.65	421	27	0.04	1910	3.14	468	73	0.12	4448	7.31
375	9	0.01	1016	1.67	422	35	0.06	1945	3.20	469	85	0.14	4533	7.45
376	9	0.01	1025	1.68	423	26	0.04	1971	3.24	470	86	0.14	4619	7.59
377	5	0.01	1030	1.69	424	29	0.05	2000	3.29	471	89	0.15	4708	7.74
378	16	0.03	1046	1.72	425	28	0.05	2028	3.33	472	96	0.16	4804	7.89
379	15	0.02	1061	1.74	426	40	0.07	2068	3.40	473	94	0.15	4898	8.05
380	13	0.02	1074	1.76	427	33	0.05	2101	3.45	474	90	0.15	4988	8.20
381	7	0.01	1081	1.78	428	39	0.06	2140	3.52	475	98	0.16	5086	8.36
382	20	0.03	1101	1.81	429	36	0.06	2176	3.58	476	109	0.18	5195	8.54
383	19	0.03	1120	1.84	430	30	0.05	2206	3.63	477	97	0.16	5292	8.70
384	20	0.03	1140	1.87	431	47	0.08	2253	3.70	478	94	0.15	5386	8.85
385	17	0.03	1157	1.90	432	41	0.07	2294	3.77	479	116	0.19	5502	9.04
386	21	0.03	1178	1.94	433	38	0.06	2332	3.83	480	105	0.17	5607	9.21

Table 185. Scale Score Distribution, Mathematics Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
481	90	0.15	5697	9.36	528	238	0.39	13168	21.64	575	361	0.59	27670	45.47
482	98	0.16	5795	9.52	529	201	0.33	13369	21.97	576	381	0.63	28051	46.10
483	114	0.19	5909	9.71	530	263	0.43	13632	22.40	577	348	0.57	28399	46.67
484	112	0.18	6021	9.89	531	233	0.38	13865	22.79	578	350	0.58	28749	47.25
485	97	0.16	6118	10.05	532	249	0.41	14114	23.19	579	370	0.61	29119	47.85
486	107	0.18	6225	10.23	533	214	0.35	14328	23.55	580	357	0.59	29476	48.44
487	110	0.18	6335	10.41	534	260	0.43	14588	23.97	581	351	0.58	29827	49.02
488	111	0.18	6446	10.59	535	261	0.43	14849	24.40	582	353	0.58	30180	49.60
489	114	0.19	6560	10.78	536	247	0.41	15096	24.81	583	380	0.62	30560	50.22
490	104	0.17	6664	10.95	537	252	0.41	15348	25.22	584	357	0.59	30917	50.81
491	126	0.21	6790	11.16	538	241	0.40	15589	25.62	585	377	0.62	31294	51.43
492	134	0.22	6924	11.38	539	278	0.46	15867	26.08	586	368	0.60	31662	52.03
493	129	0.21	7053	11.59	540	300	0.49	16167	26.57	587	343	0.56	32005	52.60
494	110	0.18	7163	11.77	541	272	0.45	16439	27.02	588	356	0.59	32361	53.18
495	146	0.24	7309	12.01	542	293	0.48	16732	27.50	589	332	0.55	32693	53.73
496	146	0.24	7455	12.25	543	301	0.49	17033	27.99	590	375	0.62	33068	54.34
497	143	0.24	7598	12.49	544	305	0.50	17338	28.49	591	342	0.56	33410	54.91
498	150	0.25	7748	12.73	545	327	0.54	17665	29.03	592	336	0.55	33746	55.46
499	132	0.22	7880	12.95	546	291	0.48	17956	29.51	593	373	0.61	34119	56.07
500	152	0.25	8032	13.20	547	307	0.50	18263	30.01	594	340	0.56	34459	56.63
501	138	0.23	8170	13.43	548	286	0.47	18549	30.48	595	371	0.61	34830	57.24
502	160	0.26	8330	13.69	549	302	0.50	18851	30.98	596	353	0.58	35183	57.82
503	149	0.24	8479	13.93	550	320	0.53	19171	31.51	597	333	0.55	35516	58.37
504	150	0.25	8629	14.18	551	333	0.55	19504	32.05	598	352	0.58	35868	58.94
505	147	0.24	8776	14.42	552	274	0.45	19778	32.50	599	390	0.64	36258	59.59
506	165	0.27	8941	14.69	553	306	0.50	20084	33.01	600	338	0.56	36596	60.14
507	151	0.25	9092	14.94	554	329	0.54	20413	33.55	601	337	0.55	36933	60.70
508	157	0.26	9249	15.20	555	328	0.54	20741	34.09	602	324	0.53	37257	61.23
509	152	0.25	9401	15.45	556	335	0.55	21076	34.64	603	350	0.58	37607	61.80
510	184	0.30	9585	15.75	557	339	0.56	21415	35.19	604	318	0.52	37925	62.33
511	191	0.31	9776	16.07	558	314	0.52	21729	35.71	605	320	0.53	38245	62.85
512	155	0.25	9931	16.32	559	361	0.59	22090	36.30	606	336	0.55	38581	63.40
513	182	0.30	10113	16.62	560	315	0.52	22405	36.82	607	345	0.57	38926	63.97
514	169	0.28	10282	16.90	561	317	0.52	22722	37.34	608	354	0.58	39280	64.55
515	181	0.30	10463	17.19	562	325	0.53	23047	37.88	609	365	0.60	39645	65.15
516	155	0.25	10618	17.45	563	297	0.49	23344	38.36	610	339	0.56	39984	65.71
517	192	0.32	10810	17.76	564	361	0.59	23705	38.96	611	330	0.54	40314	66.25
518	217	0.36	11027	18.12	565	322	0.53	24027	39.49	612	355	0.58	40669	66.83
519	213	0.35	11240	18.47	566	349	0.57	24376	40.06	613	325	0.53	40994	67.37
520	196	0.32	11436	18.79	567	363	0.60	24739	40.66	614	343	0.56	41337	67.93
521	201	0.33	11637	19.12	568	341	0.56	25080	41.22	615	307	0.50	41644	68.44
522	207	0.34	11844	19.46	569	393	0.65	25473	41.86	616	362	0.59	42006	69.03
523	197	0.32	12041	19.79	570	400	0.66	25873	42.52	617	303	0.50	42309	69.53
524	211	0.35	12252	20.13	571	334	0.55	26207	43.07	618	323	0.53	42632	70.06
525	248	0.41	12500	20.54	572	385	0.63	26592	43.70	619	308	0.51	42940	70.57
526	217	0.36	12717	20.90	573	363	0.60	26955	44.30	620	311	0.51	43251	71.08
527	213	0.35	12930	21.25	574	354	0.58	27309	44.88	621	324	0.53	43575	71.61

Table 185. Scale Score Distribution, Mathematics Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
622	320	0.53	43895	72.14	669	187	0.31	55414	91.07	716	37	0.06	59997	98.60
623	306	0.50	44201	72.64	670	186	0.31	55600	91.37	717	34	0.06	60031	98.65
624	308	0.51	44509	73.15	671	144	0.24	55744	91.61	718	38	0.06	60069	98.72
625	261	0.43	44770	73.57	672	174	0.29	55918	91.89	719	34	0.06	60103	98.77
626	284	0.47	45054	74.04	673	171	0.28	56089	92.18	720	31	0.05	60134	98.82
627	283	0.47	45337	74.51	674	169	0.28	56258	92.45	721	28	0.05	60162	98.87
628	262	0.43	45599	74.94	675	152	0.25	56410	92.70	722	18	0.03	60180	98.90
629	275	0.45	45874	75.39	676	146	0.24	56556	92.94	723	37	0.06	60217	98.96
630	263	0.43	46137	75.82	677	139	0.23	56695	93.17	724	23	0.04	60240	99.00
631	300	0.49	46437	76.31	678	137	0.23	56832	93.40	725	29	0.05	60269	99.05
632	290	0.48	46727	76.79	679	141	0.23	56973	93.63	726	27	0.04	60296	99.09
633	271	0.45	46998	77.24	680	126	0.21	57099	93.84	727	28	0.05	60324	99.14
634	273	0.45	47271	77.68	681	125	0.21	57224	94.04	728	29	0.05	60353	99.18
635	285	0.47	47556	78.15	682	146	0.24	57370	94.28	729	22	0.04	60375	99.22
636	283	0.47	47839	78.62	683	140	0.23	57510	94.51	730	12	0.02	60387	99.24
637	274	0.45	48113	79.07	684	102	0.17	57612	94.68	731	27	0.04	60414	99.28
638	249	0.41	48362	79.48	685	111	0.18	57723	94.86	732	21	0.03	60435	99.32
639	245	0.40	48607	79.88	686	115	0.19	57838	95.05	733	20	0.03	60455	99.35
640	231	0.38	48838	80.26	687	116	0.19	57954	95.24	734	12	0.02	60467	99.37
641	283	0.47	49121	80.72	688	100	0.16	58054	95.41	735	20	0.03	60487	99.40
642	287	0.47	49408	81.20	689	119	0.20	58173	95.60	736	15	0.02	60502	99.43
643	267	0.44	49675	81.64	690	90	0.15	58263	95.75	737	22	0.04	60524	99.46
644	266	0.44	49941	82.07	691	106	0.17	58369	95.92	738	13	0.02	60537	99.49
645	254	0.42	50195	82.49	692	89	0.15	58458	96.07	739	16	0.03	60553	99.51
646	237	0.39	50432	82.88	693	90	0.15	58548	96.22	740	15	0.02	60568	99.54
647	255	0.42	50687	83.30	694	84	0.14	58632	96.35	741	12	0.02	60580	99.56
648	227	0.37	50914	83.67	695	81	0.13	58713	96.49	742	14	0.02	60594	99.58
649	260	0.43	51174	84.10	696	80	0.13	58793	96.62	743	13	0.02	60607	99.60
650	252	0.41	51426	84.51	697	89	0.15	58882	96.77	744	7	0.01	60614	99.61
651	248	0.41	51674	84.92	698	70	0.12	58952	96.88	745	7	0.01	60621	99.62
652	220	0.36	51894	85.28	699	82	0.13	59034	97.02	746	6	0.01	60627	99.63
653	238	0.39	52132	85.67	700	71	0.12	59105	97.13	747	12	0.02	60639	99.65
654	222	0.36	52354	86.04	701	67	0.11	59172	97.24	748	9	0.01	60648	99.67
655	228	0.37	52582	86.41	702	61	0.10	59233	97.34	749	6	0.01	60654	99.68
656	212	0.35	52794	86.76	703	53	0.09	59286	97.43	750	8	0.01	60662	99.69
657	203	0.33	52997	87.09	704	59	0.10	59345	97.53	751	10	0.02	60672	99.71
658	204	0.34	53201	87.43	705	62	0.10	59407	97.63	752	10	0.02	60682	99.72
659	232	0.38	53433	87.81	706	67	0.11	59474	97.74	753	11	0.02	60693	99.74
660	235	0.39	53668	88.20	707	65	0.11	59539	97.85	754	10	0.02	60703	99.76
661	194	0.32	53862	88.52	708	62	0.10	59601	97.95	755	5	0.01	60708	99.77
662	205	0.34	54067	88.85	709	60	0.10	59661	98.05	756	5	0.01	60713	99.77
663	209	0.34	54276	89.20	710	58	0.10	59719	98.14	757	9	0.01	60722	99.79
664	196	0.32	54472	89.52	711	44	0.07	59763	98.21	758	6	0.01	60728	99.80
665	206	0.34	54678	89.86	712	57	0.09	59820	98.31	759	2	0.00	60730	99.80
666	180	0.30	54858	90.15	713	55	0.09	59875	98.40	760	4	0.01	60734	99.81
667	183	0.30	55041	90.45	714	44	0.07	59919	98.47	761	4	0.01	60738	99.82
668	186	0.31	55227	90.76	715	41	0.07	59960	98.54	762	6	0.01	60744	99.83

Table 185. Scale Score Distribution, Mathematics Grade 9 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
763	3	0.00	60747	99.83
764	8	0.01	60755	99.84
765	5	0.01	60760	99.85
766	5	0.01	60765	99.86
767	4	0.01	60769	99.87
768	6	0.01	60775	99.88
769	4	0.01	60779	99.88
770	4	0.01	60783	99.89
771	6	0.01	60789	99.90
772	2	0.00	60791	99.90
773	4	0.01	60795	99.91
774	5	0.01	60800	99.92
776	3	0.00	60803	99.92
777	2	0.00	60805	99.93
778	2	0.00	60807	99.93
780	2	0.00	60809	99.93
781	2	0.00	60811	99.94
782	1	0.00	60812	99.94
783	3	0.00	60815	99.94
784	4	0.01	60819	99.95
785	3	0.00	60822	99.95
786	1	0.00	60823	99.96
787	1	0.00	60824	99.96
790	2	0.00	60826	99.96
791	4	0.01	60830	99.97
793	1	0.00	60831	99.97
794	2	0.00	60833	99.97
795	1	0.00	60834	99.97
796	1	0.00	60835	99.98
797	1	0.00	60836	99.98
799	1	0.00	60837	99.98
801	1	0.00	60838	99.98
802	3	0.00	60841	99.99
808	1	0.00	60842	99.99
809	1	0.00	60843	99.99
822	2	0.00	60845	99.99
824	1	0.00	60846	99.99
828	2	0.00	60848	100.00
873	1	0.00	60849	100.00
920	1	0.00	60850	100.00

Table 186. Scale Score Distribution, Reading Grade 10

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
370	270	0.47	270	0.47	485	1	0.00	353	0.62	533	12	0.02	645	1.13
374	1	0.00	271	0.47	486	4	0.01	357	0.62	534	20	0.03	665	1.16
376	1	0.00	272	0.47	487	1	0.00	358	0.62	535	14	0.02	679	1.18
378	1	0.00	273	0.48	488	3	0.01	361	0.63	536	12	0.02	691	1.21
380	1	0.00	274	0.48	489	4	0.01	365	0.64	537	15	0.03	706	1.23
390	1	0.00	275	0.48	490	5	0.01	370	0.65	538	18	0.03	724	1.26
396	1	0.00	276	0.48	492	3	0.01	373	0.65	539	14	0.02	738	1.29
405	1	0.00	277	0.48	493	3	0.01	376	0.66	540	20	0.03	758	1.32
406	1	0.00	278	0.49	494	3	0.01	379	0.66	541	19	0.03	777	1.36
422	1	0.00	279	0.49	495	2	0.00	381	0.66	542	21	0.04	798	1.39
424	1	0.00	280	0.49	496	3	0.01	384	0.67	543	18	0.03	816	1.42
425	1	0.00	281	0.49	497	2	0.00	386	0.67	544	20	0.03	836	1.46
428	1	0.00	282	0.49	498	4	0.01	390	0.68	545	14	0.02	850	1.48
429	1	0.00	283	0.49	499	4	0.01	394	0.69	546	14	0.02	864	1.51
431	1	0.00	284	0.50	500	5	0.01	399	0.70	547	28	0.05	892	1.56
435	2	0.00	286	0.50	501	4	0.01	403	0.70	548	24	0.04	916	1.60
442	1	0.00	287	0.50	502	5	0.01	408	0.71	549	25	0.04	941	1.64
445	1	0.00	288	0.50	503	8	0.01	416	0.73	550	14	0.02	955	1.67
447	2	0.00	290	0.51	504	4	0.01	420	0.73	551	28	0.05	983	1.72
448	1	0.00	291	0.51	505	2	0.00	422	0.74	552	20	0.03	1003	1.75
450	3	0.01	294	0.51	506	3	0.01	425	0.74	553	27	0.05	1030	1.80
452	2	0.00	296	0.52	507	3	0.01	428	0.75	554	24	0.04	1054	1.84
453	1	0.00	297	0.52	508	4	0.01	432	0.75	555	22	0.04	1076	1.88
454	1	0.00	298	0.52	509	7	0.01	439	0.77	556	23	0.04	1099	1.92
455	1	0.00	299	0.52	510	7	0.01	446	0.78	557	29	0.05	1128	1.97
456	1	0.00	300	0.52	511	7	0.01	453	0.79	558	28	0.05	1156	2.02
458	1	0.00	301	0.53	512	10	0.02	463	0.81	559	26	0.05	1182	2.06
460	1	0.00	302	0.53	513	6	0.01	469	0.82	560	23	0.04	1205	2.10
461	5	0.01	307	0.54	514	9	0.02	478	0.83	561	27	0.05	1232	2.15
464	1	0.00	308	0.54	515	10	0.02	488	0.85	562	34	0.06	1266	2.21
465	5	0.01	313	0.55	516	8	0.01	496	0.87	563	33	0.06	1299	2.27
466	2	0.00	315	0.55	517	11	0.02	507	0.88	564	35	0.06	1334	2.33
467	1	0.00	316	0.55	518	2	0.00	509	0.89	565	34	0.06	1368	2.39
468	1	0.00	317	0.55	519	7	0.01	516	0.90	566	39	0.07	1407	2.46
469	5	0.01	322	0.56	520	12	0.02	528	0.92	567	31	0.05	1438	2.51
471	2	0.00	324	0.57	521	9	0.02	537	0.94	568	43	0.08	1481	2.58
473	1	0.00	325	0.57	522	9	0.02	546	0.95	569	36	0.06	1517	2.65
474	3	0.01	328	0.57	523	6	0.01	552	0.96	570	37	0.06	1554	2.71
475	2	0.00	330	0.58	524	5	0.01	557	0.97	571	41	0.07	1595	2.78
476	1	0.00	331	0.58	525	4	0.01	561	0.98	572	35	0.06	1630	2.84
477	3	0.01	334	0.58	526	7	0.01	568	0.99	573	50	0.09	1680	2.93
478	3	0.01	337	0.59	527	16	0.03	584	1.02	574	42	0.07	1722	3.01
479	4	0.01	341	0.60	528	8	0.01	592	1.03	575	42	0.07	1764	3.08
480	4	0.01	345	0.60	529	11	0.02	603	1.05	576	50	0.09	1814	3.17
481	2	0.00	347	0.61	530	8	0.01	611	1.07	577	58	0.10	1872	3.27
482	3	0.01	350	0.61	531	11	0.02	622	1.09	578	61	0.11	1933	3.37
483	2	0.00	352	0.61	532	11	0.02	633	1.10	579	55	0.10	1988	3.47

Table 186. Scale Score Distribution, Reading Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
580	52	0.09	2040	3.56	627	183	0.32	7215	12.59	674	405	0.71	21194	36.99
581	51	0.09	2091	3.65	628	163	0.28	7378	12.88	675	437	0.76	21631	37.75
582	46	0.08	2137	3.73	629	186	0.32	7564	13.20	676	436	0.76	22067	38.51
583	45	0.08	2182	3.81	630	204	0.36	7768	13.56	677	438	0.76	22505	39.27
584	68	0.12	2250	3.93	631	197	0.34	7965	13.90	678	413	0.72	22918	40.00
585	62	0.11	2312	4.03	632	165	0.29	8130	14.19	679	429	0.75	23347	40.74
586	65	0.11	2377	4.15	633	195	0.34	8325	14.53	680	422	0.74	23769	41.48
587	68	0.12	2445	4.27	634	207	0.36	8532	14.89	681	420	0.73	24189	42.21
588	55	0.10	2500	4.36	635	220	0.38	8752	15.27	682	451	0.79	24640	43.00
589	87	0.15	2587	4.51	636	224	0.39	8976	15.66	683	456	0.80	25096	43.80
590	65	0.11	2652	4.63	637	221	0.39	9197	16.05	684	462	0.81	25558	44.60
591	71	0.12	2723	4.75	638	208	0.36	9405	16.41	685	481	0.84	26039	45.44
592	87	0.15	2810	4.90	639	234	0.41	9639	16.82	686	486	0.85	26525	46.29
593	82	0.14	2892	5.05	640	222	0.39	9861	17.21	687	432	0.75	26957	47.04
594	82	0.14	2974	5.19	641	224	0.39	10085	17.60	688	477	0.83	27434	47.88
595	89	0.16	3063	5.35	642	222	0.39	10307	17.99	689	467	0.81	27901	48.69
596	70	0.12	3133	5.47	643	250	0.44	10557	18.42	690	492	0.86	28393	49.55
597	82	0.14	3215	5.61	644	244	0.43	10801	18.85	691	478	0.83	28871	50.38
598	101	0.18	3316	5.79	645	285	0.50	11086	19.35	692	492	0.86	29363	51.24
599	90	0.16	3406	5.94	646	255	0.45	11341	19.79	693	481	0.84	29844	52.08
600	96	0.17	3502	6.11	647	275	0.48	11616	20.27	694	502	0.88	30346	52.96
601	99	0.17	3601	6.28	648	273	0.48	11889	20.75	695	489	0.85	30835	53.81
602	110	0.19	3711	6.48	649	285	0.50	12174	21.25	696	501	0.87	31336	54.69
603	101	0.18	3812	6.65	650	293	0.51	12467	21.76	697	493	0.86	31829	55.55
604	118	0.21	3930	6.86	651	281	0.49	12748	22.25	698	466	0.81	32295	56.36
605	103	0.18	4033	7.04	652	301	0.53	13049	22.77	699	454	0.79	32749	57.15
606	99	0.17	4132	7.21	653	310	0.54	13359	23.31	700	474	0.83	33223	57.98
607	132	0.23	4264	7.44	654	328	0.57	13687	23.89	701	469	0.82	33692	58.80
608	132	0.23	4396	7.67	655	324	0.57	14011	24.45	702	476	0.83	34168	59.63
609	118	0.21	4514	7.88	656	347	0.61	14358	25.06	703	477	0.83	34645	60.46
610	119	0.21	4633	8.09	657	333	0.58	14691	25.64	704	468	0.82	35113	61.28
611	127	0.22	4760	8.31	658	326	0.57	15017	26.21	705	464	0.81	35577	62.09
612	107	0.19	4867	8.49	659	364	0.64	15381	26.84	706	484	0.84	36061	62.93
613	143	0.25	5010	8.74	660	353	0.62	15734	27.46	707	449	0.78	36510	63.72
614	141	0.25	5151	8.99	661	349	0.61	16083	28.07	708	489	0.85	36999	64.57
615	144	0.25	5295	9.24	662	350	0.61	16433	28.68	709	457	0.80	37456	65.37
616	136	0.24	5431	9.48	663	385	0.67	16818	29.35	710	480	0.84	37936	66.20
617	148	0.26	5579	9.74	664	358	0.62	17176	29.97	711	440	0.77	38376	66.97
618	153	0.27	5732	10.00	665	387	0.68	17563	30.65	712	486	0.85	38862	67.82
619	146	0.25	5878	10.26	666	400	0.70	17963	31.35	713	447	0.78	39309	68.60
620	137	0.24	6015	10.50	667	397	0.69	18360	32.04	714	456	0.80	39765	69.40
621	149	0.26	6164	10.76	668	370	0.65	18730	32.69	715	458	0.80	40223	70.19
622	170	0.30	6334	11.05	669	407	0.71	19137	33.40	716	465	0.81	40688	71.01
623	151	0.26	6485	11.32	670	409	0.71	19546	34.11	717	472	0.82	41160	71.83
624	187	0.33	6672	11.64	671	420	0.73	19966	34.84	718	413	0.72	41573	72.55
625	177	0.31	6849	11.95	672	412	0.72	20378	35.56	719	425	0.74	41998	73.29
626	183	0.32	7032	12.27	673	411	0.72	20789	36.28	720	433	0.76	42431	74.05

Table 186. Scale Score Distribution, Reading Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
721	407	0.71	42838	74.76	768	123	0.21	55093	96.14	815	11	0.02	57172	99.77
722	413	0.72	43251	75.48	769	120	0.21	55213	96.35	816	7	0.01	57179	99.79
723	405	0.71	43656	76.19	770	120	0.21	55333	96.56	817	6	0.01	57185	99.80
724	419	0.73	44075	76.92	771	91	0.16	55424	96.72	818	10	0.02	57195	99.81
725	418	0.73	44493	77.65	772	93	0.16	55517	96.88	819	6	0.01	57201	99.82
726	365	0.64	44858	78.28	773	77	0.13	55594	97.02	820	6	0.01	57207	99.83
727	371	0.65	45229	78.93	774	98	0.17	55692	97.19	821	3	0.01	57210	99.84
728	422	0.74	45651	79.67	775	83	0.14	55775	97.34	822	5	0.01	57215	99.85
729	371	0.65	46022	80.31	776	83	0.14	55858	97.48	823	5	0.01	57220	99.86
730	366	0.64	46388	80.95	777	76	0.13	55934	97.61	824	3	0.01	57223	99.86
731	373	0.65	46761	81.60	778	85	0.15	56019	97.76	825	6	0.01	57229	99.87
732	328	0.57	47089	82.18	779	75	0.13	56094	97.89	826	5	0.01	57234	99.88
733	348	0.61	47437	82.78	780	71	0.12	56165	98.02	827	4	0.01	57238	99.89
734	370	0.65	47807	83.43	781	73	0.13	56238	98.14	829	5	0.01	57243	99.90
735	292	0.51	48099	83.94	782	62	0.11	56300	98.25	830	9	0.02	57252	99.91
736	314	0.55	48413	84.49	783	53	0.09	56353	98.34	831	5	0.01	57257	99.92
737	336	0.59	48749	85.07	784	58	0.10	56411	98.45	832	5	0.01	57262	99.93
738	281	0.49	49030	85.56	785	54	0.09	56465	98.54	833	4	0.01	57266	99.94
739	290	0.51	49320	86.07	786	50	0.09	56515	98.63	834	1	0.00	57267	99.94
740	278	0.49	49598	86.56	787	39	0.07	56554	98.69	836	3	0.01	57270	99.94
741	322	0.56	49920	87.12	788	37	0.06	56591	98.76	838	1	0.00	57271	99.95
742	269	0.47	50189	87.59	789	40	0.07	56631	98.83	839	2	0.00	57273	99.95
743	277	0.48	50466	88.07	790	41	0.07	56672	98.90	840	2	0.00	57275	99.95
744	264	0.46	50730	88.53	791	42	0.07	56714	98.97	841	2	0.00	57277	99.96
745	270	0.47	51000	89.00	792	43	0.08	56757	99.05	842	1	0.00	57278	99.96
746	254	0.44	51254	89.45	793	33	0.06	56790	99.11	843	1	0.00	57279	99.96
747	261	0.46	51515	89.90	794	34	0.06	56824	99.17	844	4	0.01	57283	99.97
748	225	0.39	51740	90.29	795	37	0.06	56861	99.23	846	1	0.00	57284	99.97
749	229	0.40	51969	90.69	796	20	0.03	56881	99.27	847	2	0.00	57286	99.97
750	214	0.37	52183	91.07	797	35	0.06	56916	99.33	848	3	0.01	57289	99.98
751	218	0.38	52401	91.45	798	19	0.03	56935	99.36	850	1	0.00	57290	99.98
752	198	0.35	52599	91.79	799	19	0.03	56954	99.39	851	1	0.00	57291	99.98
753	224	0.39	52823	92.18	800	14	0.02	56968	99.42	852	2	0.00	57293	99.98
754	190	0.33	53013	92.52	801	20	0.03	56988	99.45	853	2	0.00	57295	99.99
755	201	0.35	53214	92.87	802	12	0.02	57000	99.47	854	1	0.00	57296	99.99
756	167	0.29	53381	93.16	803	20	0.03	57020	99.51	855	1	0.00	57297	99.99
757	165	0.29	53546	93.45	804	19	0.03	57039	99.54	862	1	0.00	57298	99.99
758	183	0.32	53729	93.76	805	19	0.03	57058	99.57	863	2	0.00	57300	100.00
759	157	0.27	53886	94.04	806	16	0.03	57074	99.60	864	1	0.00	57301	100.00
760	177	0.31	54063	94.35	807	15	0.03	57089	99.63	871	1	0.00	57302	100.00
761	160	0.28	54223	94.63	808	16	0.03	57105	99.66					
762	139	0.24	54362	94.87	809	9	0.02	57114	99.67					
763	137	0.24	54499	95.11	810	9	0.02	57123	99.69					
764	130	0.23	54629	95.34	811	11	0.02	57134	99.71					
765	122	0.21	54751	95.55	812	14	0.02	57148	99.73					
766	114	0.20	54865	95.75	813	8	0.01	57156	99.75					
767	105	0.18	54970	95.93	814	5	0.01	57161	99.75					

Table 187. Scale Score Distribution, Writing Grade 10

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
270	51	0.09	51	0.09	338	1	0.00	174	0.30	385	13	0.02	563	0.98
274	1	0.00	52	0.09	339	7	0.01	181	0.32	386	15	0.03	578	1.01
275	1	0.00	53	0.09	340	8	0.01	189	0.33	387	9	0.02	587	1.02
276	1	0.00	54	0.09	341	2	0.00	191	0.33	388	18	0.03	605	1.05
278	2	0.00	56	0.10	342	9	0.02	200	0.35	389	18	0.03	623	1.09
282	1	0.00	57	0.10	343	5	0.01	205	0.36	390	23	0.04	646	1.13
283	1	0.00	58	0.10	344	4	0.01	209	0.36	391	15	0.03	661	1.15
284	1	0.00	59	0.10	345	3	0.01	212	0.37	392	10	0.02	671	1.17
288	1	0.00	60	0.10	346	7	0.01	219	0.38	393	17	0.03	688	1.20
292	4	0.01	64	0.11	347	5	0.01	224	0.39	394	16	0.03	704	1.23
293	1	0.00	65	0.11	348	6	0.01	230	0.40	395	13	0.02	717	1.25
294	2	0.00	67	0.12	349	6	0.01	236	0.41	396	19	0.03	736	1.28
296	2	0.00	69	0.12	350	10	0.02	246	0.43	397	12	0.02	748	1.30
300	1	0.00	70	0.12	351	8	0.01	254	0.44	398	19	0.03	767	1.34
302	2	0.00	72	0.13	352	7	0.01	261	0.45	399	22	0.04	789	1.37
303	2	0.00	74	0.13	353	6	0.01	267	0.47	400	19	0.03	808	1.41
304	1	0.00	75	0.13	354	5	0.01	272	0.47	401	22	0.04	830	1.45
305	1	0.00	76	0.13	355	8	0.01	280	0.49	402	18	0.03	848	1.48
306	1	0.00	77	0.13	356	8	0.01	288	0.50	403	21	0.04	869	1.51
307	2	0.00	79	0.14	357	4	0.01	292	0.51	404	18	0.03	887	1.55
308	3	0.01	82	0.14	358	6	0.01	298	0.52	405	27	0.05	914	1.59
310	4	0.01	86	0.15	359	6	0.01	304	0.53	406	22	0.04	936	1.63
312	3	0.01	89	0.16	360	9	0.02	313	0.55	407	20	0.03	956	1.67
313	3	0.01	92	0.16	361	7	0.01	320	0.56	408	24	0.04	980	1.71
314	2	0.00	94	0.16	362	6	0.01	326	0.57	409	23	0.04	1003	1.75
315	3	0.01	97	0.17	363	10	0.02	336	0.59	410	25	0.04	1028	1.79
316	3	0.01	100	0.17	364	6	0.01	342	0.60	411	22	0.04	1050	1.83
317	1	0.00	101	0.18	365	5	0.01	347	0.60	412	26	0.05	1076	1.88
318	4	0.01	105	0.18	366	11	0.02	358	0.62	413	38	0.07	1114	1.94
319	4	0.01	109	0.19	367	10	0.02	368	0.64	414	25	0.04	1139	1.98
320	5	0.01	114	0.20	368	11	0.02	379	0.66	415	37	0.06	1176	2.05
321	2	0.00	116	0.20	369	5	0.01	384	0.67	416	35	0.06	1211	2.11
322	7	0.01	123	0.21	370	10	0.02	394	0.69	417	29	0.05	1240	2.16
323	5	0.01	128	0.22	371	13	0.02	407	0.71	418	35	0.06	1275	2.22
324	1	0.00	129	0.22	372	12	0.02	419	0.73	419	36	0.06	1311	2.28
325	5	0.01	134	0.23	373	12	0.02	431	0.75	420	20	0.03	1331	2.32
326	4	0.01	138	0.24	374	11	0.02	442	0.77	421	36	0.06	1367	2.38
327	1	0.00	139	0.24	375	10	0.02	452	0.79	422	36	0.06	1403	2.44
328	9	0.02	148	0.26	376	12	0.02	464	0.81	423	45	0.08	1448	2.52
329	3	0.01	151	0.26	377	14	0.02	478	0.83	424	39	0.07	1487	2.59
330	5	0.01	156	0.27	378	7	0.01	485	0.85	425	40	0.07	1527	2.66
331	6	0.01	162	0.28	379	10	0.02	495	0.86	426	31	0.05	1558	2.71
333	2	0.00	164	0.29	380	15	0.03	510	0.89	427	41	0.07	1599	2.79
334	3	0.01	167	0.29	381	13	0.02	523	0.91	428	41	0.07	1640	2.86
335	1	0.00	168	0.29	382	10	0.02	533	0.93	429	51	0.09	1691	2.95
336	2	0.00	170	0.30	383	6	0.01	539	0.94	430	46	0.08	1737	3.03
337	3	0.01	173	0.30	384	11	0.02	550	0.96	431	47	0.08	1784	3.11

Table 187. Scale Score Distribution, Writing Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
432	47	0.08	1831	3.19	479	123	0.21	6050	10.54	526	218	0.38	14409	25.11
433	74	0.13	1905	3.32	480	122	0.21	6172	10.76	527	230	0.40	14639	25.51
434	56	0.10	1961	3.42	481	110	0.19	6282	10.95	528	242	0.42	14881	25.93
435	51	0.09	2012	3.51	482	100	0.17	6382	11.12	529	242	0.42	15123	26.35
436	57	0.10	2069	3.61	483	134	0.23	6516	11.35	530	241	0.42	15364	26.77
437	63	0.11	2132	3.72	484	118	0.21	6634	11.56	531	241	0.42	15605	27.19
438	57	0.10	2189	3.81	485	121	0.21	6755	11.77	532	254	0.44	15859	27.64
439	59	0.10	2248	3.92	486	147	0.26	6902	12.03	533	265	0.46	16124	28.10
440	73	0.13	2321	4.04	487	150	0.26	7052	12.29	534	247	0.43	16371	28.53
441	74	0.13	2395	4.17	488	135	0.24	7187	12.52	535	270	0.47	16641	29.00
442	59	0.10	2454	4.28	489	141	0.25	7328	12.77	536	271	0.47	16912	29.47
443	73	0.13	2527	4.40	490	150	0.26	7478	13.03	537	260	0.45	17172	29.92
444	77	0.13	2604	4.54	491	165	0.29	7643	13.32	538	266	0.46	17438	30.39
445	80	0.14	2684	4.68	492	148	0.26	7791	13.58	539	267	0.47	17705	30.85
446	82	0.14	2766	4.82	493	147	0.26	7938	13.83	540	266	0.46	17971	31.32
447	60	0.10	2826	4.92	494	142	0.25	8080	14.08	541	241	0.42	18212	31.74
448	98	0.17	2924	5.10	495	169	0.29	8249	14.37	542	299	0.52	18511	32.26
449	65	0.11	2989	5.21	496	172	0.30	8421	14.67	543	249	0.43	18760	32.69
450	74	0.13	3063	5.34	497	171	0.30	8592	14.97	544	296	0.52	19056	33.21
451	80	0.14	3143	5.48	498	148	0.26	8740	15.23	545	243	0.42	19299	33.63
452	85	0.15	3228	5.63	499	167	0.29	8907	15.52	546	273	0.48	19572	34.11
453	90	0.16	3318	5.78	500	181	0.32	9088	15.84	547	275	0.48	19847	34.59
454	76	0.13	3394	5.91	501	180	0.31	9268	16.15	548	262	0.46	20109	35.04
455	95	0.17	3489	6.08	502	183	0.32	9451	16.47	549	295	0.51	20404	35.56
456	95	0.17	3584	6.25	503	138	0.24	9589	16.71	550	277	0.48	20681	36.04
457	88	0.15	3672	6.40	504	189	0.33	9778	17.04	551	277	0.48	20958	36.52
458	118	0.21	3790	6.60	505	185	0.32	9963	17.36	552	273	0.48	21231	37.00
459	85	0.15	3875	6.75	506	210	0.37	10173	17.73	553	276	0.48	21507	37.48
460	103	0.18	3978	6.93	507	163	0.28	10336	18.01	554	259	0.45	21766	37.93
461	85	0.15	4063	7.08	508	181	0.32	10517	18.33	555	323	0.56	22089	38.49
462	83	0.14	4146	7.22	509	183	0.32	10700	18.65	556	300	0.52	22389	39.02
463	102	0.18	4248	7.40	510	194	0.34	10894	18.98	557	270	0.47	22659	39.49
464	84	0.15	4332	7.55	511	215	0.37	11109	19.36	558	300	0.52	22959	40.01
465	106	0.18	4438	7.73	512	218	0.38	11327	19.74	559	310	0.54	23269	40.55
466	92	0.16	4530	7.89	513	224	0.39	11551	20.13	560	278	0.48	23547	41.03
467	94	0.16	4624	8.06	514	232	0.40	11783	20.53	561	298	0.52	23845	41.55
468	121	0.21	4745	8.27	515	216	0.38	11999	20.91	562	300	0.52	24145	42.08
469	115	0.20	4860	8.47	516	182	0.32	12181	21.23	563	329	0.57	24474	42.65
470	104	0.18	4964	8.65	517	220	0.38	12401	21.61	564	312	0.54	24786	43.19
471	110	0.19	5074	8.84	518	236	0.41	12637	22.02	565	286	0.50	25072	43.69
472	113	0.20	5187	9.04	519	225	0.39	12862	22.41	566	284	0.49	25356	44.19
473	123	0.21	5310	9.25	520	217	0.38	13079	22.79	567	312	0.54	25668	44.73
474	109	0.19	5419	9.44	521	227	0.40	13306	23.19	568	328	0.57	25996	45.30
475	135	0.24	5554	9.68	522	208	0.36	13514	23.55	569	311	0.54	26307	45.84
476	124	0.22	5678	9.89	523	230	0.40	13744	23.95	570	315	0.55	26622	46.39
477	133	0.23	5811	10.13	524	226	0.39	13970	24.34	571	316	0.55	26938	46.94
478	116	0.20	5927	10.33	525	221	0.39	14191	24.73	572	300	0.52	27238	47.47

Table 187. Scale Score Distribution, Writing Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
573	282	0.49	27520	47.96	620	278	0.48	41094	71.61	667	133	0.23	50535	88.06
574	299	0.52	27819	48.48	621	275	0.48	41369	72.09	668	155	0.27	50690	88.33
575	310	0.54	28129	49.02	622	253	0.44	41622	72.53	669	134	0.23	50824	88.57
576	297	0.52	28426	49.54	623	242	0.42	41864	72.95	670	115	0.20	50939	88.77
577	336	0.59	28762	50.12	624	247	0.43	42111	73.38	671	135	0.24	51074	89.00
578	311	0.54	29073	50.66	625	242	0.42	42353	73.81	672	153	0.27	51227	89.27
579	302	0.53	29375	51.19	626	242	0.42	42595	74.23	673	122	0.21	51349	89.48
580	282	0.49	29657	51.68	627	244	0.43	42839	74.65	674	123	0.21	51472	89.70
581	315	0.55	29972	52.23	628	259	0.45	43098	75.10	675	117	0.20	51589	89.90
582	290	0.51	30262	52.74	629	239	0.42	43337	75.52	676	129	0.22	51718	90.12
583	293	0.51	30555	53.25	630	245	0.43	43582	75.95	677	125	0.22	51843	90.34
584	276	0.48	30831	53.73	631	249	0.43	43831	76.38	678	108	0.19	51951	90.53
585	334	0.58	31165	54.31	632	246	0.43	44077	76.81	679	126	0.22	52077	90.75
586	320	0.56	31485	54.87	633	212	0.37	44289	77.18	680	106	0.18	52183	90.93
587	318	0.55	31803	55.42	634	231	0.40	44520	77.58	681	117	0.20	52300	91.14
588	272	0.47	32075	55.89	635	222	0.39	44742	77.97	682	109	0.19	52409	91.33
589	283	0.49	32358	56.39	636	206	0.36	44948	78.33	683	96	0.17	52505	91.50
590	282	0.49	32640	56.88	637	228	0.40	45176	78.72	684	104	0.18	52609	91.68
591	316	0.55	32956	57.43	638	242	0.42	45418	79.15	685	99	0.17	52708	91.85
592	312	0.54	33268	57.97	639	193	0.34	45611	79.48	686	95	0.17	52803	92.02
593	303	0.53	33571	58.50	640	211	0.37	45822	79.85	687	95	0.17	52898	92.18
594	327	0.57	33898	59.07	641	222	0.39	46044	80.24	688	84	0.15	52982	92.33
595	318	0.55	34216	59.63	642	217	0.38	46261	80.62	689	87	0.15	53069	92.48
596	298	0.52	34514	60.14	643	228	0.40	46489	81.01	690	97	0.17	53166	92.65
597	303	0.53	34817	60.67	644	208	0.36	46697	81.37	691	80	0.14	53246	92.79
598	298	0.52	35115	61.19	645	200	0.35	46897	81.72	692	75	0.13	53321	92.92
599	274	0.48	35389	61.67	646	194	0.34	47091	82.06	693	100	0.17	53421	93.09
600	274	0.48	35663	62.15	647	184	0.32	47275	82.38	694	77	0.13	53498	93.23
601	294	0.51	35957	62.66	648	185	0.32	47460	82.70	695	88	0.15	53586	93.38
602	286	0.50	36243	63.16	649	189	0.33	47649	83.03	696	75	0.13	53661	93.51
603	262	0.46	36505	63.61	650	178	0.31	47827	83.34	697	71	0.12	53732	93.63
604	304	0.53	36809	64.14	651	190	0.33	48017	83.68	698	86	0.15	53818	93.78
605	259	0.45	37068	64.60	652	186	0.32	48203	84.00	699	68	0.12	53886	93.90
606	285	0.50	37353	65.09	653	180	0.31	48383	84.31	700	77	0.13	53963	94.04
607	284	0.49	37637	65.59	654	183	0.32	48566	84.63	701	66	0.12	54029	94.15
608	256	0.45	37893	66.03	655	168	0.29	48734	84.92	702	75	0.13	54104	94.28
609	249	0.43	38142	66.47	656	159	0.28	48893	85.20	703	62	0.11	54166	94.39
610	252	0.44	38394	66.91	657	153	0.27	49046	85.47	704	69	0.12	54235	94.51
611	261	0.45	38655	67.36	658	145	0.25	49191	85.72	705	79	0.14	54314	94.65
612	273	0.48	38928	67.84	659	149	0.26	49340	85.98	706	59	0.10	54373	94.75
613	269	0.47	39197	68.31	660	159	0.28	49499	86.26	707	83	0.14	54456	94.90
614	289	0.50	39486	68.81	661	175	0.30	49674	86.56	708	58	0.10	54514	95.00
615	251	0.44	39737	69.25	662	163	0.28	49837	86.85	709	69	0.12	54583	95.12
616	284	0.49	40021	69.74	663	144	0.25	49981	87.10	710	78	0.14	54661	95.25
617	267	0.47	40288	70.21	664	163	0.28	50144	87.38	711	59	0.10	54720	95.36
618	253	0.44	40541	70.65	665	138	0.24	50282	87.62	712	48	0.08	54768	95.44
619	275	0.48	40816	71.13	666	120	0.21	50402	87.83	713	50	0.09	54818	95.53

Table 187. Scale Score Distribution, Writing Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
714	50	0.09	54868	95.61	761	22	0.04	56540	98.53	808	4	0.01	57129	99.55
715	49	0.09	54917	95.70	762	22	0.04	56562	98.57	809	6	0.01	57135	99.56
716	50	0.09	54967	95.79	763	26	0.05	56588	98.61	810	5	0.01	57140	99.57
717	45	0.08	55012	95.86	764	19	0.03	56607	98.64	811	1	0.00	57141	99.57
718	49	0.09	55061	95.95	765	17	0.03	56624	98.67	812	23	0.04	57164	99.61
719	52	0.09	55113	96.04	766	19	0.03	56643	98.71	813	3	0.01	57167	99.62
720	56	0.10	55169	96.14	767	25	0.04	56668	98.75	814	4	0.01	57171	99.63
721	56	0.10	55225	96.24	768	29	0.05	56697	98.80	815	1	0.00	57172	99.63
722	58	0.10	55283	96.34	769	14	0.02	56711	98.83	816	5	0.01	57177	99.64
723	49	0.09	55332	96.42	770	13	0.02	56724	98.85	817	9	0.02	57186	99.65
724	69	0.12	55401	96.54	771	22	0.04	56746	98.89	818	4	0.01	57190	99.66
725	56	0.10	55457	96.64	772	13	0.02	56759	98.91	819	2	0.00	57192	99.66
726	38	0.07	55495	96.71	773	20	0.03	56779	98.94	820	4	0.01	57196	99.67
727	42	0.07	55537	96.78	774	10	0.02	56789	98.96	821	6	0.01	57202	99.68
728	45	0.08	55582	96.86	775	12	0.02	56801	98.98	822	4	0.01	57206	99.69
729	42	0.07	55624	96.93	776	7	0.01	56808	98.99	823	3	0.01	57209	99.69
730	47	0.08	55671	97.01	777	10	0.02	56818	99.01	824	6	0.01	57215	99.70
731	28	0.05	55699	97.06	778	8	0.01	56826	99.03	825	1	0.00	57216	99.71
732	28	0.05	55727	97.11	779	6	0.01	56832	99.04	826	16	0.03	57232	99.73
733	39	0.07	55766	97.18	780	8	0.01	56840	99.05	827	3	0.01	57235	99.74
734	38	0.07	55804	97.24	781	8	0.01	56848	99.06	828	2	0.00	57237	99.74
735	35	0.06	55839	97.31	782	10	0.02	56858	99.08	829	3	0.01	57240	99.75
736	28	0.05	55867	97.35	783	12	0.02	56870	99.10	830	5	0.01	57245	99.76
737	47	0.08	55914	97.44	784	29	0.05	56899	99.15	831	1	0.00	57246	99.76
738	36	0.06	55950	97.50	785	5	0.01	56904	99.16	832	4	0.01	57250	99.76
739	27	0.05	55977	97.55	786	20	0.03	56924	99.20	833	1	0.00	57251	99.77
740	36	0.06	56013	97.61	787	13	0.02	56937	99.22	834	2	0.00	57253	99.77
741	42	0.07	56055	97.68	788	8	0.01	56945	99.23	835	1	0.00	57254	99.77
742	28	0.05	56083	97.73	789	14	0.02	56959	99.26	836	3	0.01	57257	99.78
743	21	0.04	56104	97.77	790	10	0.02	56969	99.28	837	2	0.00	57259	99.78
744	36	0.06	56140	97.83	791	6	0.01	56975	99.29	838	2	0.00	57261	99.78
745	27	0.05	56167	97.88	792	12	0.02	56987	99.31	840	3	0.01	57264	99.79
746	24	0.04	56191	97.92	793	19	0.03	57006	99.34	841	5	0.01	57269	99.80
747	42	0.07	56233	97.99	794	9	0.02	57015	99.36	842	4	0.01	57273	99.80
748	27	0.05	56260	98.04	795	5	0.01	57020	99.36	843	1	0.00	57274	99.81
749	22	0.04	56282	98.08	796	6	0.01	57026	99.37	844	9	0.02	57283	99.82
750	29	0.05	56311	98.13	797	8	0.01	57034	99.39	845	10	0.02	57293	99.84
751	17	0.03	56328	98.16	798	3	0.01	57037	99.39	846	6	0.01	57299	99.85
752	19	0.03	56347	98.19	799	4	0.01	57041	99.40	847	2	0.00	57301	99.85
753	13	0.02	56360	98.21	800	3	0.01	57044	99.41	848	4	0.01	57305	99.86
754	22	0.04	56382	98.25	801	3	0.01	57047	99.41	849	3	0.01	57308	99.87
755	23	0.04	56405	98.29	802	3	0.01	57050	99.42	850	9	0.02	57317	99.88
756	9	0.02	56414	98.31	803	17	0.03	57067	99.45	851	3	0.01	57320	99.89
757	20	0.03	56434	98.34	804	4	0.01	57071	99.45	852	3	0.01	57323	99.89
758	14	0.02	56448	98.37	805	12	0.02	57083	99.47	853	4	0.01	57327	99.90
759	36	0.06	56484	98.43	806	14	0.02	57097	99.50	854	2	0.00	57329	99.90
760	34	0.06	56518	98.49	807	28	0.05	57125	99.55	855	1	0.00	57330	99.90

Table 188. Scale Score Distribution, Mathematics Grade 10

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
370	876	1.52	876	1.52	417	27	0.05	1525	2.65	464	71	0.12	3282	5.71
371	7	0.01	883	1.54	418	17	0.03	1542	2.68	465	57	0.10	3339	5.80
372	8	0.01	891	1.55	419	22	0.04	1564	2.72	466	68	0.12	3407	5.92
373	10	0.02	901	1.57	420	27	0.05	1591	2.77	467	52	0.09	3459	6.01
374	4	0.01	905	1.57	421	21	0.04	1612	2.80	468	63	0.11	3522	6.12
375	9	0.02	914	1.59	422	20	0.03	1632	2.84	469	62	0.11	3584	6.23
376	12	0.02	926	1.61	423	30	0.05	1662	2.89	470	53	0.09	3637	6.32
377	8	0.01	934	1.62	424	31	0.05	1693	2.94	471	65	0.11	3702	6.44
378	11	0.02	945	1.64	425	27	0.05	1720	2.99	472	75	0.13	3777	6.57
379	14	0.02	959	1.67	426	21	0.04	1741	3.03	473	67	0.12	3844	6.68
380	9	0.02	968	1.68	427	28	0.05	1769	3.08	474	64	0.11	3908	6.79
381	8	0.01	976	1.70	428	22	0.04	1791	3.11	475	53	0.09	3961	6.89
382	10	0.02	986	1.71	429	22	0.04	1813	3.15	476	79	0.14	4040	7.02
383	9	0.02	995	1.73	430	27	0.05	1840	3.20	477	68	0.12	4108	7.14
384	7	0.01	1002	1.74	431	23	0.04	1863	3.24	464	71	0.12	3282	5.71
385	6	0.01	1008	1.75	432	27	0.05	1890	3.29	465	57	0.10	3339	5.80
386	7	0.01	1015	1.76	433	28	0.05	1918	3.33	466	68	0.12	3407	5.92
387	11	0.02	1026	1.78	434	27	0.05	1945	3.38	467	52	0.09	3459	6.01
388	6	0.01	1032	1.79	435	40	0.07	1985	3.45	468	63	0.11	3522	6.12
389	10	0.02	1042	1.81	436	36	0.06	2021	3.51	469	62	0.11	3584	6.23
390	5	0.01	1047	1.82	437	40	0.07	2061	3.58	470	53	0.09	3637	6.32
391	5	0.01	1052	1.83	438	43	0.07	2104	3.66	471	65	0.11	3702	6.44
392	3	0.01	1055	1.83	439	51	0.09	2155	3.75	472	75	0.13	3777	6.57
393	7	0.01	1062	1.85	440	39	0.07	2194	3.81	473	67	0.12	3844	6.68
394	13	0.02	1075	1.87	441	32	0.06	2226	3.87	474	64	0.11	3908	6.79
395	13	0.02	1088	1.89	442	33	0.06	2259	3.93	475	53	0.09	3961	6.89
396	18	0.03	1106	1.92	443	36	0.06	2295	3.99	476	79	0.14	4040	7.02
397	15	0.03	1121	1.95	444	48	0.08	2343	4.07	477	68	0.12	4108	7.14
398	17	0.03	1138	1.98	445	44	0.08	2387	4.15	478	71	0.12	4179	7.26
399	11	0.02	1149	2.00	446	43	0.07	2430	4.22	479	84	0.15	4263	7.41
400	21	0.04	1170	2.03	447	39	0.07	2469	4.29	480	82	0.14	4345	7.55
401	14	0.02	1184	2.06	448	26	0.05	2495	4.34	481	83	0.14	4428	7.70
402	17	0.03	1201	2.09	449	35	0.06	2530	4.40	482	70	0.12	4498	7.82
403	17	0.03	1218	2.12	450	55	0.10	2585	4.49	483	73	0.13	4571	7.95
404	8	0.01	1226	2.13	451	37	0.06	2622	4.56	484	68	0.12	4639	8.06
405	29	0.05	1255	2.18	452	45	0.08	2667	4.64	485	81	0.14	4720	8.21
406	17	0.03	1272	2.21	453	37	0.06	2704	4.70	486	76	0.13	4796	8.34
407	24	0.04	1296	2.25	454	40	0.07	2744	4.77	487	95	0.17	4891	8.50
408	22	0.04	1318	2.29	455	36	0.06	2780	4.83	488	78	0.14	4969	8.64
409	19	0.03	1337	2.32	456	54	0.09	2834	4.93	489	90	0.16	5059	8.79
410	28	0.05	1365	2.37	457	55	0.10	2889	5.02	490	89	0.15	5148	8.95
411	19	0.03	1384	2.41	458	50	0.09	2939	5.11	491	104	0.18	5252	9.13
412	29	0.05	1413	2.46	459	51	0.09	2990	5.20	492	97	0.17	5349	9.30
413	27	0.05	1440	2.50	460	53	0.09	3043	5.29	493	87	0.15	5436	9.45
414	24	0.04	1464	2.55	461	58	0.10	3101	5.39	494	97	0.17	5533	9.62
415	15	0.03	1479	2.57	462	58	0.10	3159	5.49	495	98	0.17	5631	9.79
416	19	0.03	1498	2.60	463	52	0.09	3211	5.58	496	102	0.18	5733	9.97

Table 188. Scale Score Distribution, Mathematics Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
497	111	0.19	5844	10.16	544	201	0.35	13098	22.77	591	314	0.55	26047	45.28
498	92	0.16	5936	10.32	545	209	0.36	13307	23.13	592	325	0.56	26372	45.85
499	107	0.19	6043	10.51	546	201	0.35	13508	23.48	593	343	0.60	26715	46.44
500	112	0.19	6155	10.70	547	237	0.41	13745	23.89	594	316	0.55	27031	46.99
501	118	0.21	6273	10.91	548	222	0.39	13967	24.28	595	299	0.52	27330	47.51
502	123	0.21	6396	11.12	549	218	0.38	14185	24.66	596	315	0.55	27645	48.06
503	106	0.18	6502	11.30	550	201	0.35	14386	25.01	597	337	0.59	27982	48.64
504	112	0.19	6614	11.50	551	236	0.41	14622	25.42	598	352	0.61	28334	49.26
505	118	0.21	6732	11.70	552	233	0.41	14855	25.82	599	306	0.53	28640	49.79
506	134	0.23	6866	11.94	553	236	0.41	15091	26.23	600	295	0.51	28935	50.30
507	129	0.22	6995	12.16	554	262	0.46	15353	26.69	601	345	0.60	29280	50.90
508	119	0.21	7114	12.37	555	202	0.35	15555	27.04	602	315	0.55	29595	51.45
509	133	0.23	7247	12.60	556	232	0.40	15787	27.44	603	353	0.61	29948	52.06
510	117	0.20	7364	12.80	557	279	0.49	16066	27.93	604	322	0.56	30270	52.62
511	138	0.24	7502	13.04	558	243	0.42	16309	28.35	605	342	0.59	30612	53.22
512	124	0.22	7626	13.26	559	257	0.45	16566	28.80	606	346	0.60	30958	53.82
513	141	0.25	7767	13.50	560	287	0.50	16853	29.30	607	340	0.59	31298	54.41
514	108	0.19	7875	13.69	561	295	0.51	17148	29.81	608	335	0.58	31633	54.99
515	156	0.27	8031	13.96	562	261	0.45	17409	30.26	609	332	0.58	31965	55.57
516	139	0.24	8170	14.20	563	264	0.46	17673	30.72	610	355	0.62	32320	56.19
517	162	0.28	8332	14.48	564	234	0.41	17907	31.13	611	346	0.60	32666	56.79
518	131	0.23	8463	14.71	565	255	0.44	18162	31.57	612	352	0.61	33018	57.40
519	153	0.27	8616	14.98	566	275	0.48	18437	32.05	613	307	0.53	33325	57.93
520	147	0.26	8763	15.23	567	287	0.50	18724	32.55	614	328	0.57	33653	58.50
521	161	0.28	8924	15.51	568	273	0.47	18997	33.03	615	322	0.56	33975	59.06
522	148	0.26	9072	15.77	569	273	0.47	19270	33.50	616	341	0.59	34316	59.66
523	172	0.30	9244	16.07	570	272	0.47	19542	33.97	617	315	0.55	34631	60.20
524	152	0.26	9396	16.33	571	307	0.53	19849	34.51	618	362	0.63	34993	60.83
525	150	0.26	9546	16.60	572	299	0.52	20148	35.03	619	309	0.54	35302	61.37
526	155	0.27	9701	16.86	573	296	0.51	20444	35.54	620	302	0.53	35604	61.90
527	174	0.30	9875	17.17	574	305	0.53	20749	36.07	621	351	0.61	35955	62.51
528	173	0.30	10048	17.47	575	311	0.54	21060	36.61	622	325	0.56	36280	63.07
529	163	0.28	10211	17.75	576	302	0.53	21362	37.14	623	337	0.59	36617	63.66
530	179	0.31	10390	18.06	577	326	0.57	21688	37.70	624	335	0.58	36952	64.24
531	154	0.27	10544	18.33	578	303	0.53	21991	38.23	625	321	0.56	37273	64.80
532	179	0.31	10723	18.64	579	300	0.52	22291	38.75	626	334	0.58	37607	65.38
533	169	0.29	10892	18.94	580	296	0.51	22587	39.27	627	336	0.58	37943	65.96
534	209	0.36	11101	19.30	581	320	0.56	22907	39.82	628	348	0.60	38291	66.57
535	179	0.31	11280	19.61	582	318	0.55	23225	40.38	629	335	0.58	38626	67.15
536	192	0.33	11472	19.94	583	294	0.51	23519	40.89	630	333	0.58	38959	67.73
537	204	0.35	11676	20.30	584	327	0.57	23846	41.45	631	304	0.53	39263	68.26
538	196	0.34	11872	20.64	585	334	0.58	24180	42.04	632	294	0.51	39557	68.77
539	186	0.32	12058	20.96	586	290	0.50	24470	42.54	633	315	0.55	39872	69.31
540	182	0.32	12240	21.28	587	307	0.53	24777	43.07	634	310	0.54	40182	69.85
541	216	0.38	12456	21.65	588	302	0.53	25079	43.60	635	288	0.50	40470	70.35
542	220	0.38	12676	22.04	589	329	0.57	25408	44.17	636	329	0.57	40799	70.93
543	221	0.38	12897	22.42	590	325	0.56	25733	44.74	637	319	0.55	41118	71.48

Table 188. Scale Score Distribution, Mathematics Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
638	328	0.57	41446	72.05	685	175	0.30	52836	91.85	732	32	0.06	56943	98.99
639	328	0.57	41774	72.62	686	150	0.26	52986	92.11	733	36	0.06	56979	99.05
640	263	0.46	42037	73.08	687	160	0.28	53146	92.39	734	24	0.04	57003	99.10
641	295	0.51	42332	73.59	688	169	0.29	53315	92.68	735	27	0.05	57030	99.14
642	284	0.49	42616	74.09	689	171	0.30	53486	92.98	736	28	0.05	57058	99.19
643	309	0.54	42925	74.62	690	161	0.28	53647	93.26	737	33	0.06	57091	99.25
644	282	0.49	43207	75.11	691	151	0.26	53798	93.52	738	24	0.04	57115	99.29
645	295	0.51	43502	75.63	692	130	0.23	53928	93.75	739	21	0.04	57136	99.33
646	295	0.51	43797	76.14	693	149	0.26	54077	94.01	740	22	0.04	57158	99.37
647	279	0.49	44076	76.62	694	141	0.25	54218	94.25	741	18	0.03	57176	99.40
648	310	0.54	44386	77.16	695	118	0.21	54336	94.46	742	19	0.03	57195	99.43
649	301	0.52	44687	77.69	696	120	0.21	54456	94.67	743	13	0.02	57208	99.45
650	262	0.46	44949	78.14	697	125	0.22	54581	94.89	744	19	0.03	57227	99.49
651	272	0.47	45221	78.61	698	129	0.22	54710	95.11	745	13	0.02	57240	99.51
652	265	0.46	45486	79.07	699	99	0.17	54809	95.28	746	12	0.02	57252	99.53
653	255	0.44	45741	79.52	700	114	0.20	54923	95.48	747	12	0.02	57264	99.55
654	250	0.43	45991	79.95	701	93	0.16	55016	95.64	748	16	0.03	57280	99.58
655	278	0.48	46269	80.44	702	104	0.18	55120	95.82	749	11	0.02	57291	99.60
656	244	0.42	46513	80.86	703	87	0.15	55207	95.97	750	12	0.02	57303	99.62
657	244	0.42	46757	81.28	704	103	0.18	55310	96.15	751	11	0.02	57314	99.64
658	274	0.48	47031	81.76	705	92	0.16	55402	96.31	752	15	0.03	57329	99.66
659	277	0.48	47308	82.24	706	101	0.18	55503	96.49	753	11	0.02	57340	99.68
660	237	0.41	47545	82.65	707	85	0.15	55588	96.64	754	12	0.02	57352	99.70
661	220	0.38	47765	83.04	708	104	0.18	55692	96.82	755	10	0.02	57362	99.72
662	273	0.47	48038	83.51	709	84	0.15	55776	96.96	756	13	0.02	57375	99.74
663	257	0.45	48295	83.96	710	82	0.14	55858	97.11	757	9	0.02	57384	99.76
664	241	0.42	48536	84.38	711	81	0.14	55939	97.25	758	4	0.01	57388	99.77
665	215	0.37	48751	84.75	712	84	0.15	56023	97.39	759	9	0.02	57397	99.78
666	246	0.43	48997	85.18	713	74	0.13	56097	97.52	760	7	0.01	57404	99.79
667	215	0.37	49212	85.55	714	74	0.13	56171	97.65	761	5	0.01	57409	99.80
668	249	0.43	49461	85.98	715	83	0.14	56254	97.79	762	6	0.01	57415	99.81
669	257	0.45	49718	86.43	716	54	0.09	56308	97.89	763	6	0.01	57421	99.82
670	241	0.42	49959	86.85	717	52	0.09	56360	97.98	764	9	0.02	57430	99.84
671	201	0.35	50160	87.20	718	57	0.10	56417	98.08	766	6	0.01	57436	99.85
672	213	0.37	50373	87.57	719	49	0.09	56466	98.16	767	3	0.01	57439	99.85
673	194	0.34	50567	87.91	720	53	0.09	56519	98.25	768	4	0.01	57443	99.86
674	206	0.36	50773	88.27	721	37	0.06	56556	98.32	769	8	0.01	57451	99.87
675	196	0.34	50969	88.61	722	50	0.09	56606	98.41	770	4	0.01	57455	99.88
676	210	0.37	51179	88.97	723	49	0.09	56655	98.49	771	8	0.01	57463	99.90
677	189	0.33	51368	89.30	724	34	0.06	56689	98.55	772	4	0.01	57467	99.90
678	208	0.36	51576	89.66	725	36	0.06	56725	98.61	773	7	0.01	57474	99.91
679	177	0.31	51753	89.97	726	38	0.07	56763	98.68	774	6	0.01	57480	99.93
680	201	0.35	51954	90.32	727	25	0.04	56788	98.72	775	2	0.00	57482	99.93
681	184	0.32	52138	90.64	728	31	0.05	56819	98.78	776	2	0.00	57484	99.93
682	176	0.31	52314	90.94	729	46	0.08	56865	98.86	777	1	0.00	57485	99.93
683	168	0.29	52482	91.24	730	25	0.04	56890	98.90	778	1	0.00	57486	99.94
684	179	0.31	52661	91.55	731	21	0.04	56911	98.94	779	1	0.00	57487	99.94

Table 188. Scale Score Distribution, Mathematics Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
780	3	0.01	57490	99.94
781	1	0.00	57491	99.94
782	2	0.00	57493	99.95
784	2	0.00	57495	99.95
785	1	0.00	57496	99.95
786	2	0.00	57498	99.96
787	2	0.00	57500	99.96
788	2	0.00	57502	99.96
789	1	0.00	57503	99.97
790	1	0.00	57504	99.97
791	3	0.01	57507	99.97
793	1	0.00	57508	99.97
794	2	0.00	57510	99.98
799	3	0.01	57513	99.98
800	2	0.00	57515	99.99
803	1	0.00	57516	99.99
809	1	0.00	57517	99.99
811	1	0.00	57518	99.99
815	1	0.00	57519	99.99
819	1	0.00	57520	99.99
846	1	0.00	57521	100.00
881	1	0.00	57522	100.00
950	1	0.00	57523	100.00

Table 189. Scale Score Distribution, Science Grade 10

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	614	1.07	614	1.07	347	29	0.05	1287	2.24	394	91	0.16	3418	5.95
301	7	0.01	621	1.08	348	23	0.04	1310	2.28	395	65	0.11	3483	6.07
302	5	0.01	626	1.09	349	30	0.05	1340	2.33	396	96	0.17	3579	6.23
303	8	0.01	634	1.10	350	26	0.05	1366	2.38	397	84	0.15	3663	6.38
304	8	0.01	642	1.12	351	22	0.04	1388	2.42	398	90	0.16	3753	6.54
305	8	0.01	650	1.13	352	23	0.04	1411	2.46	399	86	0.15	3839	6.69
306	7	0.01	657	1.14	353	35	0.06	1446	2.52	400	73	0.13	3912	6.81
307	5	0.01	662	1.15	354	31	0.05	1477	2.57	401	90	0.16	4002	6.97
308	7	0.01	669	1.17	355	32	0.06	1509	2.63	402	71	0.12	4073	7.09
309	10	0.02	679	1.18	356	35	0.06	1544	2.69	403	89	0.15	4162	7.25
310	14	0.02	693	1.21	357	30	0.05	1574	2.74	404	90	0.16	4252	7.40
311	13	0.02	706	1.23	358	27	0.05	1601	2.79	405	90	0.16	4342	7.56
312	13	0.02	719	1.25	359	42	0.07	1643	2.86	406	96	0.17	4438	7.73
313	11	0.02	730	1.27	360	41	0.07	1684	2.93	407	106	0.18	4544	7.91
314	15	0.03	745	1.30	361	35	0.06	1719	2.99	408	93	0.16	4637	8.08
315	7	0.01	752	1.31	362	37	0.06	1756	3.06	409	77	0.13	4714	8.21
316	17	0.03	769	1.34	363	37	0.06	1793	3.12	410	100	0.17	4814	8.38
317	9	0.02	778	1.35	364	35	0.06	1828	3.18	411	101	0.18	4915	8.56
318	7	0.01	785	1.37	365	40	0.07	1868	3.25	412	95	0.17	5010	8.73
319	11	0.02	796	1.39	366	36	0.06	1904	3.32	413	112	0.20	5122	8.92
320	15	0.03	811	1.41	367	38	0.07	1942	3.38	414	107	0.19	5229	9.11
321	6	0.01	817	1.42	368	41	0.07	1983	3.45	415	116	0.20	5345	9.31
322	10	0.02	827	1.44	369	39	0.07	2022	3.52	416	118	0.21	5463	9.51
323	19	0.03	846	1.47	370	49	0.09	2071	3.61	417	113	0.20	5576	9.71
324	13	0.02	859	1.50	371	39	0.07	2110	3.67	418	107	0.19	5683	9.90
325	9	0.02	868	1.51	372	34	0.06	2144	3.73	419	118	0.21	5801	10.10
326	16	0.03	884	1.54	373	47	0.08	2191	3.82	420	114	0.20	5915	10.30
327	15	0.03	899	1.57	374	45	0.08	2236	3.89	421	118	0.21	6033	10.51
328	19	0.03	918	1.60	375	46	0.08	2282	3.97	422	115	0.20	6148	10.71
329	14	0.02	932	1.62	376	42	0.07	2324	4.05	423	132	0.23	6280	10.94
330	15	0.03	947	1.65	377	48	0.08	2372	4.13	424	143	0.25	6423	11.19
331	14	0.02	961	1.67	378	42	0.07	2414	4.20	425	133	0.23	6556	11.42
332	20	0.03	981	1.71	379	44	0.08	2458	4.28	426	146	0.25	6702	11.67
333	16	0.03	997	1.74	380	55	0.10	2513	4.38	427	134	0.23	6836	11.91
334	19	0.03	1016	1.77	381	64	0.11	2577	4.49	428	113	0.20	6949	12.10
335	15	0.03	1031	1.80	382	52	0.09	2629	4.58	429	116	0.20	7065	12.30
336	14	0.02	1045	1.82	383	61	0.11	2690	4.68	430	156	0.27	7221	12.58
337	26	0.05	1071	1.87	384	56	0.10	2746	4.78	431	137	0.24	7358	12.81
338	16	0.03	1087	1.89	385	53	0.09	2799	4.87	432	156	0.27	7514	13.09
339	17	0.03	1104	1.92	386	54	0.09	2853	4.97	433	162	0.28	7676	13.37
340	22	0.04	1126	1.96	387	51	0.09	2904	5.06	434	151	0.26	7827	13.63
341	19	0.03	1145	1.99	388	66	0.11	2970	5.17	435	157	0.27	7984	13.90
342	19	0.03	1164	2.03	389	59	0.10	3029	5.28	436	199	0.35	8183	14.25
343	29	0.05	1193	2.08	390	67	0.12	3096	5.39	437	153	0.27	8336	14.52
344	21	0.04	1214	2.11	391	70	0.12	3166	5.51	438	174	0.30	8510	14.82
345	24	0.04	1238	2.16	392	83	0.14	3249	5.66	439	168	0.29	8678	15.11
346	20	0.03	1258	2.19	393	78	0.14	3327	5.79	440	162	0.28	8840	15.40

Table 189. Scale Score Distribution, Science Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
441	173	0.30	9013	15.70	488	321	0.56	20865	36.34	535	378	0.66	38605	67.23
442	171	0.30	9184	15.99	489	316	0.55	21181	36.89	536	384	0.67	38989	67.90
443	179	0.31	9363	16.31	490	318	0.55	21499	37.44	537	423	0.74	39412	68.64
444	192	0.33	9555	16.64	491	332	0.58	21831	38.02	538	399	0.69	39811	69.33
445	179	0.31	9734	16.95	492	328	0.57	22159	38.59	539	396	0.69	40207	70.02
446	187	0.33	9921	17.28	493	357	0.62	22516	39.21	540	370	0.64	40577	70.67
447	215	0.37	10136	17.65	494	361	0.63	22877	39.84	541	358	0.62	40935	71.29
448	187	0.33	10323	17.98	495	358	0.62	23235	40.46	542	385	0.67	41320	71.96
449	179	0.31	10502	18.29	496	315	0.55	23550	41.01	543	402	0.70	41722	72.66
450	191	0.33	10693	18.62	497	412	0.72	23962	41.73	544	389	0.68	42111	73.34
451	204	0.36	10897	18.98	498	384	0.67	24346	42.40	545	356	0.62	42467	73.96
452	241	0.42	11138	19.40	499	341	0.59	24687	42.99	546	350	0.61	42817	74.57
453	204	0.36	11342	19.75	500	373	0.65	25060	43.64	547	339	0.59	43156	75.16
454	216	0.38	11558	20.13	501	357	0.62	25417	44.26	548	359	0.63	43515	75.78
455	206	0.36	11764	20.49	502	382	0.67	25799	44.93	549	344	0.60	43859	76.38
456	205	0.36	11969	20.84	503	398	0.69	26197	45.62	550	369	0.64	44228	77.02
457	221	0.38	12190	21.23	504	386	0.67	26583	46.29	551	356	0.62	44584	77.64
458	236	0.41	12426	21.64	505	373	0.65	26956	46.94	552	316	0.55	44900	78.19
459	238	0.41	12664	22.05	506	363	0.63	27319	47.58	553	314	0.55	45214	78.74
460	249	0.43	12913	22.49	507	377	0.66	27696	48.23	554	348	0.61	45562	79.35
461	246	0.43	13159	22.92	508	386	0.67	28082	48.91	555	339	0.59	45901	79.94
462	242	0.42	13401	23.34	509	402	0.70	28484	49.61	556	323	0.56	46224	80.50
463	227	0.40	13628	23.73	510	317	0.55	28801	50.16	557	341	0.59	46565	81.09
464	266	0.46	13894	24.20	511	351	0.61	29152	50.77	558	290	0.51	46855	81.60
465	290	0.51	14184	24.70	512	397	0.69	29549	51.46	559	327	0.57	47182	82.17
466	258	0.45	14442	25.15	513	425	0.74	29974	52.20	560	323	0.56	47505	82.73
467	263	0.46	14705	25.61	514	381	0.66	30355	52.86	561	272	0.47	47777	83.20
468	248	0.43	14953	26.04	515	389	0.68	30744	53.54	562	295	0.51	48072	83.72
469	265	0.46	15218	26.50	516	392	0.68	31136	54.22	563	266	0.46	48338	84.18
470	257	0.45	15475	26.95	517	356	0.62	31492	54.84	564	289	0.50	48627	84.69
471	260	0.45	15735	27.40	518	376	0.65	31868	55.50	565	282	0.49	48909	85.18
472	264	0.46	15999	27.86	519	375	0.65	32243	56.15	566	277	0.48	49186	85.66
473	269	0.47	16268	28.33	520	425	0.74	32668	56.89	567	306	0.53	49492	86.19
474	251	0.44	16519	28.77	521	416	0.72	33084	57.62	568	266	0.46	49758	86.65
475	288	0.50	16807	29.27	522	396	0.69	33480	58.31	569	285	0.50	50043	87.15
476	287	0.50	17094	29.77	523	412	0.72	33892	59.02	570	276	0.48	50319	87.63
477	292	0.51	17386	30.28	524	407	0.71	34299	59.73	571	257	0.45	50576	88.08
478	310	0.54	17696	30.82	525	399	0.69	34698	60.43	572	220	0.38	50796	88.46
479	300	0.52	17996	31.34	526	402	0.70	35100	61.13	573	250	0.44	51046	88.90
480	303	0.53	18299	31.87	527	445	0.77	35545	61.90	574	229	0.40	51275	89.30
481	298	0.52	18597	32.39	528	371	0.65	35916	62.55	575	220	0.38	51495	89.68
482	306	0.53	18903	32.92	529	388	0.68	36304	63.22	576	233	0.41	51728	90.09
483	337	0.59	19240	33.51	530	378	0.66	36682	63.88	577	216	0.38	51944	90.46
484	335	0.58	19575	34.09	531	375	0.65	37057	64.54	578	239	0.42	52183	90.88
485	340	0.59	19915	34.68	532	417	0.73	37474	65.26	579	221	0.38	52404	91.26
486	316	0.55	20231	35.23	533	394	0.69	37868	65.95	580	193	0.34	52597	91.60
487	313	0.55	20544	35.78	534	359	0.63	38227	66.57	581	227	0.40	52824	91.99

Table 189. Scale Score Distribution, Science Grade 10 (cont'd)

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
582	178	0.31	53002	92.30	629	15	0.03	57136	99.50
583	169	0.29	53171	92.60	630	17	0.03	57153	99.53
584	192	0.33	53363	92.93	631	21	0.04	57174	99.57
585	163	0.28	53526	93.22	632	19	0.03	57193	99.60
586	180	0.31	53706	93.53	633	16	0.03	57209	99.63
587	174	0.30	53880	93.83	634	18	0.03	57227	99.66
588	146	0.25	54026	94.09	635	17	0.03	57244	99.69
589	154	0.27	54180	94.36	636	11	0.02	57255	99.71
590	137	0.24	54317	94.59	637	10	0.02	57265	99.73
591	136	0.24	54453	94.83	638	13	0.02	57278	99.75
592	141	0.25	54594	95.08	639	7	0.01	57285	99.76
593	133	0.23	54727	95.31	640	15	0.03	57300	99.79
594	116	0.20	54843	95.51	641	9	0.02	57309	99.80
595	120	0.21	54963	95.72	642	12	0.02	57321	99.83
596	117	0.20	55080	95.92	643	8	0.01	57329	99.84
597	102	0.18	55182	96.10	644	10	0.02	57339	99.86
598	121	0.21	55303	96.31	645	5	0.01	57344	99.87
599	108	0.19	55411	96.50	646	3	0.01	57347	99.87
600	113	0.20	55524	96.70	647	8	0.01	57355	99.89
601	97	0.17	55621	96.87	648	4	0.01	57359	99.89
602	90	0.16	55711	97.02	649	3	0.01	57362	99.90
603	88	0.15	55799	97.18	650	4	0.01	57366	99.90
604	82	0.14	55881	97.32	651	7	0.01	57373	99.92
605	85	0.15	55966	97.47	652	4	0.01	57377	99.92
606	82	0.14	56048	97.61	653	4	0.01	57381	99.93
607	89	0.15	56137	97.76	654	2	0.00	57383	99.93
608	77	0.13	56214	97.90	655	2	0.00	57385	99.94
609	73	0.13	56287	98.03	656	7	0.01	57392	99.95
610	73	0.13	56360	98.15	657	2	0.00	57394	99.95
611	51	0.09	56411	98.24	658	3	0.01	57397	99.96
612	58	0.10	56469	98.34	659	3	0.01	57400	99.96
613	45	0.08	56514	98.42	660	2	0.00	57402	99.97
614	66	0.11	56580	98.54	661	3	0.01	57405	99.97
615	59	0.10	56639	98.64	662	1	0.00	57406	99.97
616	43	0.07	56682	98.71	664	1	0.00	57407	99.98
617	37	0.06	56719	98.78	666	1	0.00	57408	99.98
618	43	0.07	56762	98.85	667	2	0.00	57410	99.98
619	57	0.10	56819	98.95	669	1	0.00	57411	99.98
620	46	0.08	56865	99.03	670	1	0.00	57412	99.98
621	42	0.07	56907	99.10	671	1	0.00	57413	99.99
622	37	0.06	56944	99.17	673	2	0.00	57415	99.99
623	37	0.06	56981	99.23	679	1	0.00	57416	99.99
624	33	0.06	57014	99.29	680	1	0.00	57417	99.99
625	28	0.05	57042	99.34	682	1	0.00	57418	99.99
626	23	0.04	57065	99.38	687	1	0.00	57419	100.00
627	29	0.05	57094	99.43	691	1	0.00	57420	100.00
628	27	0.05	57121	99.48	708	1	0.00	57421	100.00

Table 190. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3

Name	CS 1	SA 1/4	SA 2	SA 3	Total
Mean	558.4	558.4	547.9	576.9	558.4
SD	81.43	90.34	128.50	122.83	81.43
N	62959	62959	62959	62959	62959
CS 1		0.938	0.736	0.804	1.000
SA 1/4			0.638	0.665	0.938
SA 2				0.550	0.736
SA 3					0.804

Table 191. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3 (Spanish)

Name	CS 1	SA 1/4	SA 2	SA 3	Total
Mean	524.8	528.8	525.8	521.9	524.8
SD	50.81	60.97	65.90	66.08	50.81
N	1167	1167	1167	1167	1167
CS 1		0.917	0.844	0.766	1.000
SA 1/4			0.698	0.610	0.917
SA 2				0.589	0.844
SA 3					0.766

Table 192. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 4

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	589.0	585.7	588.8	587.1	586.7	592.4	600.9	587.7
SD	67.16	93.86	99.73	82.93	70.12	88.88	113.44	62.86
N	64263	64263	64263	64263	64263	64263	64263	64263
CS 1		0.745	0.713	0.716	0.879	0.821	0.728	0.940
CS 4			0.635	0.645	0.796	0.775	0.556	0.830
CS 5				0.631	0.704	0.637	0.571	0.805
CS 6					0.837	0.643	0.582	0.813
SA 1/4						0.736	0.620	0.933
SA 2							0.552	0.838
SA 3								0.710

Table 193. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 4 (Spanish)

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	522.9	510.9	516.9	515.6	516.5	517.6	535.2	521.1
SD	51.04	63.20	75.59	53.08	48.13	59.40	79.42	46.79
N	108	108	108	108	108	108	108	108
CS 1		0.713	0.700	0.649	0.794	0.868	0.715	0.894
CS 4			0.653	0.573	0.797	0.814	0.582	0.854
CS 5				0.593	0.649	0.705	0.449	0.801
CS 6					0.774	0.686	0.459	0.750
SA 1/4						0.784	0.516	0.906
SA 2							0.603	0.897
SA 3								0.654

Table 194. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 5

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	611.9	606.3	606.8	607.7	609.9	607.9	626.0	611.5
SD	75.71	103.19	92.81	91.40	78.48	96.99	113.55	68.99
N	63188	63188	63188	63188	63188	63188	63188	63188
CS 1		0.713	0.725	0.733	0.856	0.816	0.759	0.923
CS 4			0.654	0.652	0.782	0.720	0.557	0.803
CS 5				0.665	0.718	0.673	0.580	0.836
CS 6					0.892	0.666	0.558	0.842
SA 1/4						0.717	0.616	0.927
SA 2							0.556	0.826
SA 3								0.716

Table 195. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 6

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	629.9	629.3	631.5	628.6	630.2	622.7	640.4	629.6
SD	72.22	81.38	88.89	74.67	67.60	92.09	125.76	62.67
N	62206	62206	62206	62206	62206	62206	62206	62206
CS 1		0.751	0.698	0.738	0.880	0.750	0.727	0.904
CS 4			0.679	0.726	0.834	0.819	0.562	0.875
CS 5				0.666	0.714	0.654	0.535	0.822
CS 6					0.875	0.727	0.569	0.868
SA 1/4						0.738	0.603	0.941
SA 2							0.545	0.833
SA 3								0.686

Table 196. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 7

Name	CS 1	CS 4	CS 5	CS 6	SA 1	SA 2	SA 3	SA 4	Total
Mean	640.6	640.9	647.0	639.6	639.1	642.7	677.1	637.2	640.3
SD	71.45	80.08	88.08	80.62	77.18	80.31	149.39	86.61	62.84
N	62036	62036	62036	62036	62036	62036	62036	62036	62036
CS 1		0.754	0.711	0.742	0.816	0.813	0.748	0.754	0.922
CS 4			0.677	0.719	0.807	0.810	0.569	0.735	0.872
CS 5				0.664	0.685	0.659	0.563	0.629	0.829
CS 6					0.839	0.698	0.559	0.803	0.867
SA 1						0.706	0.578	0.687	0.891
SA 2							0.549	0.659	0.848
SA 3								0.531	0.711
SA 4									0.826

Table 197. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 8

Name	CS 1	CS 4	CS 5	CS 6	SA 1	SA 2	SA 3	SA 4	Total
Mean	651.9	651.4	652.4	651.4	651.9	653.2	689.3	641.6	650.9
SD	65.91	73.56	78.08	69.18	68.72	74.15	146.65	95.93	58.05
N	60624	60624	60624	60624	60624	60624	60624	60624	60624
CS 1		0.752	0.739	0.761	0.832	0.826	0.736	0.678	0.927
CS 4			0.702	0.716	0.821	0.790	0.547	0.696	0.867
CS 5				0.701	0.705	0.700	0.554	0.618	0.855
CS 6					0.786	0.743	0.563	0.778	0.879
SA 1						0.707	0.547	0.635	0.881
SA 2							0.531	0.611	0.862
SA 3								0.501	0.689
SA 4									0.771

Table 198. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 9

Name	CS 1	CS 4	CS 5	CS 6	SA 1	SA 2	SA 3	SA 4	Total
Mean	660.4	658.6	663.0	659.4	658.5	661.7	693.7	649.4	659.1
SD	63.99	68.47	79.69	69.14	63.64	69.70	133.04	110.54	52.73
N	60668	60668	60668	60668	60668	60668	60668	60668	60668
CS 1		0.692	0.676	0.699	0.791	0.759	0.670	0.649	0.887
CS 4			0.615	0.716	0.782	0.833	0.464	0.637	0.852
CS 5				0.618	0.650	0.616	0.507	0.548	0.796
CS 6					0.836	0.736	0.491	0.660	0.849
SA 1						0.711	0.504	0.609	0.885
SA 2							0.473	0.578	0.848
SA 3								0.439	0.626
SA 4									0.720

Table 199. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 10

Name	CS 1	CS 4	CS 5	CS 6	SA 1	SA 2	SA 3	SA 4	Total
Mean	686.3	686.1	690.7	686.8	687.6	682.5	700.4	685.1	685.6
SD	63.45	66.31	82.01	71.37	64.98	72.17	106.58	88.29	55.59
N	57302	57302	57302	57302	57302	57302	57302	57302	57302
CS 1		0.753	0.687	0.732	0.812	0.835	0.727	0.706	0.916
CS 4			0.656	0.684	0.815	0.807	0.577	0.650	0.868
CS 5				0.614	0.657	0.644	0.583	0.563	0.800
CS 6					0.828	0.741	0.519	0.752	0.845
SA 1						0.726	0.575	0.646	0.890
SA 2							0.549	0.627	0.869
SA 3								0.487	0.696
SA 4									0.757

Table 200. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3

Name	CS 2	CS 3	SA 5	SA 7	SA 8	Total
Mean	468.2	472.4	469.4	485.0	478.5	466.0
SD	58.49	65.35	59.71	88.56	96.80	50.07
N	63076	63076	63076	63076	63076	63076
CS 2		0.654	0.948	0.580	0.560	0.885
CS 3			0.639	0.843	0.789	0.888
SA 5				0.546	0.546	0.855
SA 7					0.534	0.787
SA 8						0.748

Table 201. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3 (Spanish)

Name	CS 2	CS 3	SA 5	SA 7	SA 8	Total
Mean	515.6	505.2	527.6	508.4	520.6	507.8
SD	85.85	85.51	115.64	92.19	121.29	77.52
N	1178	1178	1178	1178	1178	1178
CS 2		0.779	0.911	0.681	0.640	0.944
CS 3			0.692	0.917	0.818	0.933
SA 5				0.566	0.568	0.854
SA 7					0.608	0.840
SA 8						0.771

Table 202. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 4

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	487.4	492.5	486.7	508.9	507.1	491.9	487.2
SD	55.15	64.09	63.17	103.43	91.22	99.87	50.35
N	64166	64166	64166	64166	64166	64166	64166
CS 2		0.703	0.884	0.777	0.584	0.615	0.929
CS 3			0.637	0.485	0.791	0.833	0.886
SA 5				0.523	0.525	0.566	0.829
SA 6					0.382	0.424	0.687
SA 7						0.522	0.732
SA 8							0.776

Table 203. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 4 (Spanish)

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	487.3	495.8	485.0	469.8	498.7	477.5	494.6
SD	50.68	53.98	62.30	73.52	79.43	84.26	44.30
N	102.0	102.0	102.0	102.0	102.0	102.0	102.0
CS 2		0.631	0.903	0.790	0.607	0.380	0.845
CS 3			0.518	0.558	0.827	0.558	0.923
SA 5				0.621	0.483	0.335	0.717
SA 6					0.491	0.352	0.691
SA 7						0.395	0.810
SA 8							0.554

Table 204. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 5

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	507.3	513.7	507.1	560.6	521.7	522.0	506.5
SD	59.76	73.98	66.92	142.66	93.47	105.27	54.75
N	62995	62995	62995	62995	62995	62995	62995
CS 2		0.691	0.896	0.751	0.655	0.618	0.940
CS 3			0.635	0.473	0.799	0.832	0.860
SA 5				0.513	0.585	0.558	0.850
SA 6					0.415	0.426	0.682
SA 7						0.550	0.777
SA 8							0.759

Table 205. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 6

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	523.7	527.1	524.6	576.2	530.7	530.8	523.2
SD	64.39	68.68	69.68	158.01	86.91	96.59	58.42
N	62698	62698	62698	62698	62698	62698	62698
CS 2		0.735	0.929	0.690	0.676	0.653	0.932
CS 3			0.699	0.450	0.898	0.804	0.913
SA 5				0.492	0.641	0.599	0.874
SA 6					0.395	0.388	0.615
SA 7						0.606	0.832
SA 8							0.779

Table 206. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 7

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	560.4	562.1	561.8	577.7	563.9	568.0	559.0
SD	76.40	78.19	86.31	129.48	86.42	107.73	69.51
N	61967	61967	61967	61967	61967	61967	61967
CS 2		0.756	0.902	0.747	0.722	0.672	0.933
CS 3			0.667	0.522	0.931	0.834	0.932
SA 5				0.551	0.635	0.567	0.832
SA 6					0.470	0.448	0.675
SA 7						0.673	0.881
SA 8							0.801

Table 207. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 8

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	565.2	571.7	568.5	590.6	572.1	590.1	564.7
SD	76.13	86.72	89.52	139.59	95.60	131.99	69.09
N	60594	60594	60594	60594	60594	60594	60594
CS 2		0.709	0.877	0.774	0.715	0.572	0.937
CS 3			0.612	0.483	0.881	0.775	0.881
SA 5				0.550	0.593	0.503	0.816
SA 6					0.455	0.389	0.693
SA 7						0.579	0.851
SA 8							0.710

Table 208. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 9

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	573.2	579.9	573.3	609.1	609.7	584.1	572.5
SD	82.19	90.40	90.94	161.43	155.82	110.88	75.34
N	60713	60713	60713	60713	60713	60713	60713
CS 2		0.739	0.917	0.750	0.655	0.634	0.940
CS 3			0.684	0.494	0.841	0.843	0.900
SA 5				0.525	0.601	0.586	0.863
SA 6					0.426	0.433	0.677
SA 7						0.583	0.787
SA 8							0.770

Table 209. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 10

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	579.6	584.2	578.3	642.3	598.3	571.3	577.5
SD	88.36	92.99	96.68	197.98	125.20	139.53	79.83
N	57385	57385	57385	57385	57385	57385	57385
CS 2		0.725	0.919	0.723	0.660	0.539	0.939
CS 3			0.667	0.451	0.851	0.741	0.901
SA 5				0.522	0.594	0.494	0.862
SA 6					0.394	0.361	0.647
SA 7						0.506	0.800
SA 8							0.669

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Table 210. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 3

Name	CS 1	CS 2/3	CS 4/5	CS 6	Total
Mean	476.5	471.8	469.0	471.6	467.2
SD	119.91	118.03	105.24	112.98	89.80
N	64277	64277	64277	64277	64277
CS 1		0.687	0.688	0.665	0.842
CS 2/3			0.709	0.692	0.894
CS 4/5				0.677	0.881
CS 6					0.845

Table 211. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 4

Name	CS 1	CS 2	CS 3	CS 4/5	CS 6	SA 1	SA 2	SA 3	Total
Mean	494.3	511.2	496.4	496.3	502.6	493.6	511.2	545.7	492.7
SD	90.35	138.07	111.30	91.95	106.01	85.56	138.08	164.46	78.14
N	64366	64366	64366	64366	64366	64366	64366	64366	64366
CS 1		0.686	0.714	0.746	0.728	0.946	0.686	0.572	0.891
CS 2			0.655	0.666	0.662	0.720	1.000	0.515	0.806
CS 3				0.720	0.684	0.753	0.655	0.549	0.850
CS 4/5					0.709	0.780	0.666	0.690	0.896
CS 6						0.848	0.662	0.542	0.856
SA 1							0.720	0.598	0.934
SA 2								0.515	0.806
SA 3									0.667

Table 212. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 5

Name	CS 1	CS 2	CS 3	CS 4/5	CS 6	SA 1	SA 2	SA 3	Total
Mean	522.5	520.6	523.1	526.0	537.2	524.7	523.2	529.1	520.2
SD	93.39	93.27	92.54	95.98	113.97	97.83	101.20	108.35	74.89
N	63261	63261	63261	63261	63261	63261	63261	63261	63261
CS 1		0.756	0.740	0.711	0.690	0.859	0.723	0.684	0.894
CS 2			0.745	0.712	0.684	0.751	0.949	0.688	0.890
CS 3				0.732	0.669	0.732	0.716	0.915	0.880
CS 4/5					0.640	0.707	0.683	0.678	0.856
CS 6						0.776	0.661	0.620	0.817
SA 1							0.712	0.678	0.879
SA 2								0.664	0.853
SA 3									0.812

Table 213. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 6

Name	CS 1	CS 2	CS 3	CS 4/5	CS 6	SA 1	SA 2	SA 3	Total
Mean	539.6	544.6	540.9	539.4	553.4	540.7	545.2	537.6	540.6
SD	97.85	93.74	99.42	93.64	117.16	100.09	95.79	107.07	75.86
N	62762	62762	62762	62762	62762	62762	62762	62762	62762
CS 1		0.749	0.725	0.756	0.668	0.915	0.740	0.710	0.884
CS 2			0.736	0.758	0.671	0.744	0.970	0.707	0.892
CS 3				0.743	0.660	0.722	0.740	0.697	0.867
CS 4/5					0.674	0.750	0.745	0.930	0.902
CS 6						0.751	0.664	0.635	0.799
SA 1							0.734	0.707	0.877
SA 2								0.695	0.880
SA 3									0.845

Table 214. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 7

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	Total
Mean	562.3	567.6	559.0	559.0	555.1	556.6	564.7
SD	91.40	96.03	99.10	95.15	106.05	100.72	77.52
N	62076	62076	62076	62076	62076	62076	62076
CS 1/6		0.758	0.749	0.752	0.885	0.713	0.907
CS 2			0.736	0.735	0.728	0.697	0.892
CS 3				0.728	0.771	0.692	0.872
CS 4/5					0.723	0.950	0.881
SA 1						0.686	0.867
SA 2							0.838

Table 215. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 8

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	SA 3	Total
Mean	573.3	576.7	575.1	574.6	574.9	562.1	573.5	576.9
SD	84.65	83.12	86.11	85.94	86.85	107.15	103.42	69.78
N	60685	60685	60685	60685	60685	60685	60685	60685
CS 1/6		0.744	0.739	0.755	0.728	0.850	0.681	0.892
CS 2			0.744	0.760	0.940	0.695	0.689	0.901
CS 3				0.750	0.754	0.694	0.677	0.881
CS 4/5					0.741	0.740	0.897	0.901
SA 1						0.680	0.672	0.878
SA 2							0.636	0.826
SA 3								0.813

Table 216. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 9

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	Total
Mean	569.5	576.1	576.3	564.2	572.4	563.5	578.2
SD	100.93	83.81	84.22	100.67	107.90	109.78	73.44
N	60850	60850	60850	60850	60850	60850	60850
CS 1/6		0.713	0.692	0.656	0.632	0.857	0.830
CS 2			0.764	0.710	0.851	0.702	0.917
CS 3				0.692	0.684	0.733	0.896
CS 4/5					0.627	0.672	0.829
SA 1						0.627	0.799
SA 2							0.821

Table 217. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 10

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	Total
Mean	573.3	590.0	591.4	569.1	591.5	592.5	592.5
SD	108.16	82.00	82.52	111.54	79.63	111.84	73.55
N	57523	57523	57523	57523	57523	57523	57523
CS 1/6		0.675	0.629	0.594	0.676	0.417	0.758
CS 2			0.769	0.697	0.937	0.505	0.932
CS 3				0.666	0.840	0.643	0.894
CS 4/5					0.738	0.434	0.799
SA 1						0.514	0.949
SA 2							0.580

Table 218. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 5

Name	CS 1/5	CS 2	CS 3	CS 4	SA 1	SA 2	Total
Mean	497.5	498.7	501.1	498.9	494.3	497.1	498.7
SD	70.75	81.95	79.71	80.42	82.96	88.55	65.03
N	63240	63240	63240	63240	63240	63240	63240
CS 1/5		0.748	0.752	0.703	0.890	0.879	0.954
CS 2			0.673	0.639	0.670	0.665	0.846
CS 3				0.656	0.676	0.651	0.854
CS 4					0.634	0.610	0.804
SA 1						0.680	0.855
SA 2							0.836

Table 219. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 8

Name	CS 1/5	CS 2	CS 3	CS 4	SA 1	SA 2	SA 3	SA 5	SA 6	Total
Mean	502.6	500.7	501.5	501.8	498.0	505.3	499.2	494.9	500.9	503.1
SD	66.44	77.08	72.53	77.79	84.39	75.97	85.30	95.74	84.42	61.04
N	60616	60616	60616	60616	60616	60616	60616	60616	60616	60616
CS 1/5		0.741	0.777	0.716	0.865	0.925	0.696	0.576	0.676	0.946
CS 2			0.696	0.673	0.648	0.685	0.922	0.528	0.642	0.851
CS 3				0.686	0.676	0.721	0.658	0.724	0.648	0.878
CS 4					0.624	0.663	0.629	0.518	0.932	0.831
SA 1						0.686	0.611	0.503	0.593	0.820
SA 2							0.644	0.535	0.625	0.875
SA 3								0.494	0.599	0.798
SA 5									0.490	0.651
SA 6										0.786

Table 220. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 10

Name	CS 1/5	CS 2	CS 3	CS 4	SA 1	SA 2	SA 4	SA 5	SA 6	Total
Mean	502.9	495.8	490.3	503.1	498.1	508.2	495.1	490.5	505.1	502.7
SD	66.96	85.24	92.52	76.94	78.72	80.39	98.90	93.76	88.43	63.14
N	57421	57421	57421	57421	57421	57421	57421	57421	57421	57421
CS 1/5		0.708	0.668	0.750	0.906	0.885	0.647	0.659	0.660	0.954
CS 2			0.570	0.624	0.645	0.628	0.860	0.563	0.551	0.800
CS 3				0.634	0.610	0.590	0.524	0.981	0.574	0.760
CS 4					0.672	0.665	0.563	0.625	0.896	0.854
SA 1						0.694	0.592	0.603	0.591	0.862
SA 2							0.575	0.583	0.586	0.842
SA 4								0.518	0.497	0.733
SA 5									0.565	0.749
SA 6										0.758

Table 221. Cronbach Alpha Reliability Coefficients for Content Standards

Content Area	Grade	Alpha						
		CS 1	CS 2	CS 3	CS 4	CS 5	CS 6	Total
Reading	3	0.89						0.89
	4	0.85			0.69	0.75	0.77	0.93
	5	0.83			0.69	0.75	0.69	0.93
	6	0.82			0.78	0.74	0.71	0.93
	7	0.81			0.75	0.75	0.74	0.93
	8	0.82			0.71	0.73	0.69	0.92
	9	0.81			0.70	0.78	0.72	0.93
	10	0.77			0.75	0.75	0.71	0.92
Writing	3		0.78	0.88				0.91
	4		0.81	0.87				0.91
	5		0.83	0.87				0.91
	6		0.82	0.86				0.91
	7		0.82	0.86				0.91
	8		0.83	0.87				0.91
	9		0.84	0.88				0.92
	10		0.85	0.85				0.91
Mathematics	3	0.66	0.81		0.71		0.65	0.91
	4	0.71	0.75	0.76	0.82		0.78	0.94
	5	0.78	0.75	0.75	0.74		0.81	0.94
	6	0.79	0.76	0.77	0.81		0.72	0.94
	7	0.83	0.76	0.72	0.79			0.93
	8	0.78	0.80	0.73	0.77			0.93
	9	0.74	0.77	0.73	0.75			0.92
	10	0.73	0.84	0.71	0.76			0.93
Science	5	0.85	0.70	0.71	0.60			0.92
	8	0.85	0.74	0.70	0.71			0.93
	10	0.84	0.73	0.60	0.69			0.92
Reading Spanish	3	0.88						0.88
	4	0.85			0.72	0.65	0.48	0.92
Writing Spanish	3		0.85	0.87				0.92
	4		0.73	0.81				0.86

Table 222. Cronbach Alpha Reliability Coefficients for Subcontent Areas

Content Area	Grade	Alpha							
		SA 1	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8
Reading	3	0.80	0.57	0.80					
	4	0.86	0.79	0.63					
	5	0.85	0.71	0.61					
	6	0.86	0.77	0.60					
	7	0.80	0.71	0.69	0.69				
	8	0.75	0.73	0.71	0.67				
	9	0.77	0.75	0.64	0.63				
	10	0.78	0.74	0.59	0.61				
Writing	3					0.76		0.82	0.70
	4					0.68	0.73	0.75	0.79
	5					0.72	0.72	0.80	0.78
	6					0.73	0.70	0.80	0.74
	7					0.71	0.61	0.80	0.72
	8					0.69	0.72	0.84	0.68
	9					0.75	0.70	0.88	0.64
	10					0.75	0.71	0.88	0.50
Mathematics	3								
	4	0.80	0.75	0.50					
	5	0.76	0.70	0.60					
	6	0.76	0.74	0.71					
	7	0.79	0.67						
	8	0.77	0.73	0.62					
	9	0.61	0.79						
	10	0.84	0.33						
Science	5	0.70	0.70						
	8	0.69	0.77	0.65		0.37	0.69		
	10	0.71	0.69		0.70	0.55	0.57		
Reading Spanish	3	0.82	0.67	0.62					
	4	0.81	0.76	0.59					
Writing Spanish	3					0.89		0.80	0.72
	4					0.52	0.66	0.78	0.59

Table 223. Subgroup Reliability for the TCAP Reading Tests

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	57140	568.51	69.32	150	795	150	795	0.87	24.62
	Disability	5817	459.49	117.3	150	795	150	755	0.90	37.70
	No IEP	57129	568.52	69.32	150	795	150	795	0.87	24.62
	IEP	5815	459.46	117.4	150	795	150	755	0.90	37.70
	No Accommodation	49207	571.42	67.24	150	795	150	795	0.87	24.50
	Accommodation	9286	475.21	104.2	150	795	150	795	0.88	35.69
	Am. Indian/AK Native	481	521.61	92.25	150	795	150	720	0.90	29.88
	Asian	2030	569.42	86.09	150	795	150	795	0.90	27.51
	Black	2835	525.42	90.76	150	795	150	795	0.89	30.11
	Hispanic	20113	526.89	82.86	150	795	150	795	0.88	28.33
	White	35248	578.27	72.61	150	795	150	795	0.88	25.44
	Hawaiian/Pacific Islander	130	564.45	69.7	150	795	362	729	0.89	23.44
	Two or More Races	2120	569.79	76.08	150	795	150	795	0.88	26.36
3	Not Free Lunch Eligible	35060	583.1	68.62	150	795	150	795	0.87	24.81
	Free Lunch Eligible	23383	522.73	86.68	150	795	150	795	0.89	29.44
	Reduced Lunch Eligible	4491	551.97	74.89	150	795	150	795	0.88	26.25
	Female	30832	566.84	75	150	795	150	795	0.88	25.53
	Male	32122	550.37	86.39	150	795	150	795	0.90	27.54
	Language Proficiency NA	51481	568.62	76.76	150	795	150	795	0.89	26.03
	Language Proficiency NEP	1736	413.93	108.8	150	795	150	658	0.82	46.66
	Language Proficiency LEP	7934	517.99	64.72	150	795	150	746	0.84	26.22
	Language Proficiency FEP	1802	584.85	50.1	150	795	276	795	0.79	22.79
	Not Migrant Or Immigrant	62301	559.08	80.78	150	795	150	795	0.89	26.54
	Migrant	141	505.89	89.16	150	795	150	650	0.88	31.16
	Immigrant	493	495.29	121.8	150	795	150	714	0.92	34.87
	Migrant and Immigrant	9	464.33	58.21	150	795	388	572	0.79	26.45
	No Disability	57853	596.64	51.93	180	940	180	816	0.92	14.71
	Disability	6409	507.35	90	180	940	180	753	0.93	23.47
	No IEP	57842	596.64	51.95	180	940	180	816	0.92	14.72
	IEP	6404	507.33	89.99	180	940	180	753	0.93	23.48
	No Accommodation	48545	598.91	51.34	180	940	180	816	0.92	14.90
	Accommodation	11515	531.17	78.31	180	940	180	816	0.93	20.40
	Am. Indian/AK Native	460	566.33	66.68	180	940	180	688	0.93	17.39
	Asian/Pacific Islander	2092	600.7	62.71	180	940	180	790	0.93	16.06
	Black	2964	559.81	71.45	180	940	180	789	0.94	18.19
	Hispanic	21162	562.65	64.73	180	940	180	814	0.93	17.33
	White	35191	604.08	54.89	180	940	180	816	0.92	15.35
	Hawaiian/Pacific Islander	143	590.75	53.16	180	940	403	729	0.93	14.48
	Two or More Races	2248	597.06	58.41	180	940	180	739	0.93	15.55
4	Not Free Lunch Eligible	35411	608.14	52.43	180	940	180	816	0.92	15.14
	Free Lunch Eligible	24187	559.1	66.47	180	940	180	754	0.93	17.77
	Reduced Lunch Eligible	4635	581.42	56.64	180	940	180	749	0.92	15.76
	Female	31647	594.84	57.71	180	940	180	816	0.93	15.31
	Male	32614	580.85	66.77	180	940	180	816	0.94	16.88
	Language Proficiency NA	51712	596.25	58.52	180	940	180	816	0.93	15.70
	Language Proficiency NEP	1764	468.63	90.09	180	940	180	711	0.89	30.37
	Language Proficiency LEP	7713	550.94	48.26	180	940	180	739	0.89	15.81
	Language Proficiency FEP	3067	605.35	37.78	180	940	180	749	0.86	14.30
	Not Migrant Or Immigrant	63628	588.18	62.45	180	940	180	816	0.93	16.13
	Migrant	178	550.34	60.52	180	940	180	721	0.92	17.32
	Immigrant	427	540.27	92.71	180	940	180	733	0.95	20.36
	Migrant and Immigrant	12	469.58	80.34	180	940	309	589	0.92	22.91

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Table 223. Subgroup Reliability for the TCAP Reading Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	56738	621.39	58.36	220	955	220	852	0.91	17.12
	Disability	6446	524.72	91.02	220	955	220	741	0.92	26.42
	No IEP	56730	621.39	58.38	220	955	220	852	0.91	17.13
	IEP	6444	524.78	91	220	955	220	741	0.92	26.41
	No Accommodation	47692	623.2	57.44	220	955	220	852	0.91	17.16
	Accommodation	11292	551.22	84.42	220	955	220	825	0.92	23.28
	Am. Indian/AK Native	461	582.31	76.9	220	955	220	731	0.92	21.23
	Asian	2135	628.2	72.55	220	955	220	852	0.93	19.12
	Black	2877	581.75	76.22	220	955	220	764	0.93	20.91
	Hispanic	20693	584.57	71.03	220	955	220	797	0.92	20.21
	White	34798	628.83	60.56	220	955	220	845	0.92	17.56
	Hawaiian/Pacific Islander	121	611.55	55.38	220	955	446	730	0.91	16.38
	Two or More Races	2099	620.74	63.65	220	955	220	774	0.92	17.82
5	Not Free Lunch Eligible	34951	633.82	57.94	220	955	220	852	0.91	17.27
	Free Lunch Eligible	23524	579.98	72.56	220	955	220	821	0.92	20.78
	Reduced Lunch Eligible	4682	603.71	62.61	220	955	220	825	0.92	18.29
	Female	30890	620.52	63.36	220	955	220	845	0.92	17.60
	Male	32292	602.93	72.95	220	955	220	852	0.93	19.40
	Language Proficiency NA	50834	620.41	63.89	220	955	220	845	0.92	17.91
	Language Proficiency NEP	1211	466.34	102.7	220	955	220	689	0.86	38.51
	Language Proficiency LEP	7036	562.1	57.71	220	955	220	733	0.87	20.62
	Language Proficiency FEP	4100	629.16	46.86	220	955	220	852	0.87	16.97
	Not Migrant Or Immigrant	62522	612.18	68.29	220	955	220	852	0.93	18.52
	Migrant	192	560.02	87.68	220	955	220	761	0.93	23.21
	Immigrant	445	547.07	105.1	220	955	220	753	0.94	25.10
	Migrant and Immigrant	13	477.69	106.1	220	955	220	627	0.89	36.06
	No Disability	55988	638.71	53.29	260	970	260	904	0.92	15.43
	Disability	6217	547.8	79.31	260	970	260	751	0.92	22.44
	No IEP	55988	638.71	53.28	260	970	260	904	0.92	15.42
	IEP	6212	547.72	79.33	260	970	260	751	0.92	22.44
	No Accommodation	49718	638.57	53.69	260	970	260	837	0.92	15.53
	Accommodation	8491	567.16	78.04	260	970	260	787	0.93	20.36
	Am. Indian/AK Native	500	609.12	59.99	260	970	260	765	0.93	16.01
	Asian/Pacific Islander	1956	643.27	68.17	260	970	260	904	0.94	16.96
	Black	2741	601.83	64.73	260	970	260	758	0.93	17.64
	Hispanic	20175	602.14	64.1	260	970	260	795	0.92	17.66
	White	34561	646.73	54.56	260	970	260	837	0.92	15.73
	Hawaiian/Pacific Islander	125	630.43	56.83	260	970	400	750	0.92	15.89
6	Two or More Races	2141	640.37	59.21	260	970	260	814	0.93	16.04
	Not Free Lunch Eligible	34954	650.74	52.51	260	970	260	904	0.91	15.53
	Free Lunch Eligible	22529	598.69	64.82	260	970	260	771	0.92	17.87
	Reduced Lunch Eligible	4687	620.98	57.59	260	970	260	796	0.92	16.70
	Female	30738	638.81	58.14	260	970	260	904	0.93	15.93
	Male	31466	620.64	65.57	260	970	260	837	0.93	16.87
	Language Proficiency NA	50609	638.09	58.21	260	970	260	837	0.93	15.98
	Language Proficiency NEP	877	488.77	93.02	260	970	260	671	0.88	31.81
	Language Proficiency LEP	6098	572.95	51.64	260	970	260	733	0.87	18.41
	Language Proficiency FEP	4611	638.38	41.74	260	970	260	904	0.87	15.35
	Not Migrant Or Immigrant	61597	630.23	62.03	260	970	260	904	0.93	16.39
	Migrant	169	577.08	75.62	260	970	260	718	0.92	21.57
	Immigrant	417	564.17	97.48	260	970	260	740	0.95	21.72
	Migrant and Immigrant	13	547.62	57.08	260	970	444	648	0.89	18.92

Table 223. Subgroup Reliability for the TCAP Reading Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	56343	648.64	54.93	300	980	300	889	0.92	15.95
	Disability	5691	557.41	74.88	300	980	300	795	0.93	20.46
	No IEP	56333	648.65	54.94	300	980	300	889	0.92	15.95
	IEP	5693	557.45	74.91	300	980	300	795	0.93	20.46
	No Accommodation	50296	647.8	55.74	300	980	300	889	0.92	16.07
	Accommodation	6993	575.1	75.99	300	980	300	825	0.94	19.09
	Am. Indian/AK Native	507	616.76	68.05	300	980	300	772	0.94	17.15
	Asian	1951	653.12	68.61	300	980	300	863	0.94	17.05
	Black	2968	611.98	65.34	300	980	300	790	0.93	17.08
	Hispanic	20096	613.67	62.25	300	980	300	795	0.93	16.92
	White	34399	657.26	56.11	300	980	300	889	0.92	16.22
	Hawaiian/Pacific Islander	118	630.58	60.47	300	980	461	745	0.93	15.74
7	Two or More Races	1992	651.42	58.42	300	980	300	820	0.92	16.70
	Not Free Lunch Eligible	35586	660.57	53.92	300	980	300	865	0.91	16.06
	Free Lunch Eligible	21854	609.18	63.9	300	980	300	836	0.93	17.25
	Reduced Lunch Eligible	4560	631.1	59.04	300	980	300	889	0.92	16.54
	Female	30236	649.34	58.68	300	980	300	889	0.92	16.24
	Male	31794	631.65	65.4	300	980	300	840	0.93	16.75
	Language Proficiency NA	50686	648.56	59.64	300	980	300	889	0.92	16.39
	Language Proficiency NEP	870	510.09	70.44	300	980	300	737	0.89	23.41
	Language Proficiency LEP	5288	578.59	49.37	300	980	300	728	0.88	17.45
	Language Proficiency FEP	5182	644.08	41.75	300	980	333	830	0.86	15.66
	Not Migrant Or Immigrant	61398	640.98	62.27	300	980	300	889	0.93	16.52
	Migrant	152	587.42	68.28	300	980	300	735	0.93	18.02
	Immigrant	458	567.59	81.34	300	980	300	760	0.95	18.86
	Migrant and Immigrant	17	530.24	65.82	300	980	386	663	0.93	18.01
	No Disability	55141	658.25	51.38	330	990	330	892	0.91	15.24
	Disability	5479	576.6	68.2	330	990	330	805	0.92	19.77
	No IEP	55140	658.25	51.38	330	990	330	892	0.91	15.24
	IEP	5474	576.53	68.19	330	990	330	805	0.92	19.77
	No Accommodation	49454	656.96	52.3	330	990	330	892	0.91	15.33
	Accommodation	6578	594.44	70.47	330	990	330	841	0.93	18.44
	Am. Indian/AK Native	509	630.95	54.95	330	990	419	763	0.92	15.43
	Asian/Pacific Islander	1839	664.74	62.6	330	990	330	832	0.93	16.35
	Black	3027	621.35	60.84	330	990	330	790	0.92	16.87
	Hispanic	19160	625.88	56.55	330	990	330	841	0.92	16.21
	White	33964	666.58	52.44	330	990	330	892	0.91	15.49
	Hawaiian/Pacific Islander	161	642.88	58.65	330	990	330	776	0.92	16.41
8	Two or More Races	1959	661.25	52.33	330	990	330	823	0.92	15.16
	Not Free Lunch Eligible	35520	669.18	51.26	330	990	330	892	0.91	15.40
	Free Lunch Eligible	20635	621.43	57.35	330	990	330	813	0.92	16.49
	Reduced Lunch Eligible	4433	641.31	53.57	330	990	330	841	0.91	15.81
	Female	29690	660.26	54.78	330	990	330	859	0.92	15.55
	Male	30930	641.85	59.65	330	990	330	892	0.93	16.04
	Language Proficiency NA	50157	657.98	55.59	330	990	330	892	0.92	15.69
	Language Proficiency NEP	678	527.62	70.68	330	990	330	728	0.87	25.38
	Language Proficiency LEP	4231	590	43.56	330	990	330	739	0.85	16.82
	Language Proficiency FEP	5549	648.13	40.9	330	990	430	841	0.87	14.62
	Not Migrant Or Immigrant	60008	651.53	57.52	330	990	330	892	0.92	15.81
	Migrant	130	592.62	64.82	330	990	330	714	0.91	19.04
	Immigrant	460	584.58	74.32	330	990	330	800	0.94	18.31
	Migrant and Immigrant	16	564.81	53.1	330	990	472	665	0.89	17.85

Table 223. Subgroup Reliability for the TCAP Reading Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	55430	665.31	47.07	350	995	350	862	0.92	13.54
	Disability	5201	593.28	63.78	350	995	350	804	0.92	18.56
	No IEP	55415	665.32	47.07	350	995	350	862	0.92	13.54
	IEP	5210	593.34	63.75	350	995	350	804	0.92	18.55
	No Accommodation	51638	662.13	49.28	350	995	350	862	0.92	13.76
	Accommodation	3628	597.34	65.83	350	995	350	827	0.93	17.98
	Am. Indian/AK Native	477	639.63	53.83	350	995	350	764	0.92	14.82
	Asian	1911	672.73	56.32	350	995	350	837	0.94	14.27
	Black	3057	635.44	57.12	350	995	350	811	0.93	15.25
	Hispanic	18906	637.84	52.29	350	995	350	854	0.92	14.54
	White	34283	672.07	47.69	350	995	350	862	0.92	13.74
	Hawaiian/Pacific Islander	147	657.74	41.86	350	995	529	743	0.91	12.73
9	Two or More Races	1845	667.38	50.05	350	995	350	804	0.92	14.01
	Not Free Lunch Eligible	36765	673.42	46.79	350	995	350	862	0.92	13.59
	Free Lunch Eligible	19477	633.86	54.48	350	995	350	806	0.92	15.04
	Reduced Lunch Eligible	4345	651.59	48.04	350	995	350	800	0.92	13.97
	Female	29774	667.96	47.78	350	995	350	862	0.92	13.40
	Male	30849	650.61	55.81	350	995	350	846	0.93	14.55
	Language Proficiency NA	50359	665.27	49.96	350	995	350	862	0.92	13.87
	Language Proficiency NEP	679	543.29	71.73	350	995	350	714	0.87	25.93
	Language Proficiency LEP	3552	600.68	44.38	350	995	350	789	0.87	16.02
	Language Proficiency FEP	6036	655.32	39.08	350	995	350	830	0.89	13.17
	Not Migrant Or Immigrant	59923	659.93	51.92	350	995	350	862	0.93	14.00
	Migrant	144	609	62.24	350	995	350	736	0.93	16.51
	Immigrant	536	586.43	75.59	350	995	350	837	0.94	18.33
	Migrant and Immigrant	16	579.13	86.84	350	995	350	692	0.94	20.60
	No Disability	52785	691.44	50.69	370	999	370	871	0.91	14.94
	Disability	4511	617	63.85	370	999	370	789	0.92	18.63
	No IEP	52780	691.44	50.69	370	999	370	871	0.91	14.94
	IEP	4506	616.98	63.85	370	999	370	789	0.92	18.64
	No Accommodation	49312	687.98	52.75	370	999	370	864	0.92	15.09
	Accommodation	3067	623.9	68.06	370	999	370	794	0.93	17.67
	Am. Indian/AK Native	457	669.2	57.38	370	999	370	787	0.93	15.45
	Asian/Pacific Islander	1876	695.58	61.68	370	999	370	863	0.94	15.27
	Black	2698	661.62	59.43	370	999	370	801	0.93	16.06
	Hispanic	16996	663.2	54.84	370	999	370	848	0.92	15.48
	White	33422	698.14	50.89	370	999	370	871	0.91	14.99
	Hawaiian/Pacific Islander	144	678.65	55.07	370	999	370	768	0.92	15.83
10	Two or More Races	1706	694.49	54.22	370	999	370	854	0.92	15.63
	Not Free Lunch Eligible	36666	698.72	51.05	370	999	370	871	0.91	15.05
	Free Lunch Eligible	16793	659.19	55.67	370	999	370	848	0.92	15.64
	Reduced Lunch Eligible	3798	675.68	53.76	370	999	370	831	0.92	15.64
	Female	28160	696.02	50.3	370	999	370	863	0.92	14.60
	Male	29136	675.5	58.52	370	999	370	871	0.93	15.75
	Language Proficiency NA	48070	691.63	53.33	370	999	370	871	0.92	15.17
	Language Proficiency NEP	625	562.45	67.86	370	999	370	724	0.85	25.94
	Language Proficiency LEP	3032	626.03	44.78	370	999	370	782	0.87	16.12
	Language Proficiency FEP	5559	679.6	40.63	370	999	370	843	0.88	14.24
	Not Migrant Or Immigrant	56629	686.35	54.81	370	999	370	871	0.92	15.18
	Migrant	107	642.39	54.59	370	999	370	733	0.92	15.56
	Immigrant	535	615.93	81.61	370	999	370	801	0.94	19.30
	Migrant and Immigrant	15	588.27	75.23	370	999	370	665	0.90	23.51

Table 224. Subgroup Reliability for the TCAP Writing Tests

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	57228	471.21	47.05	150	680	150	680	0.90	15.13
	Disability	5846	414.92	50.03	150	680	150	680	0.91	15.28
	No IEP	57219	471.22	47.05	150	680	150	680	0.90	15.13
	IEP	5843	414.86	50.02	150	680	150	680	0.91	15.28
	No Accommodation	48101	474.09	45.86	150	680	150	680	0.89	15.30
	Accommodation	10833	422.39	46.45	150	680	150	680	0.90	14.75
	Am. Indian/AK Native	481	443.35	47.12	150	680	150	562	0.92	13.60
	Asian	2031	475.84	56.29	150	680	150	680	0.93	15.45
	Black	2843	447.36	48.52	150	680	150	680	0.92	14.08
	Hispanic	20173	447.14	46.76	150	680	150	680	0.91	14.23
	White	35293	477.63	47.89	150	680	150	680	0.90	15.51
	Hawaiian/Pacific Islander	132	464.76	42.09	150	680	364	581	0.89	13.92
	Two or More Races	2121	472.42	49.4	150	680	150	680	0.90	15.31
3	**Not Free Lunch Eligible**	35078	481.04	47.13	150	680	150	680	0.89	15.76
	Free Lunch Eligible	23471	444.28	47	150	680	150	680	0.91	14.23
	Reduced Lunch Eligible	4499	462.06	45.33	150	680	150	680	0.90	14.55
	Female	30862	474.29	49.21	150	680	150	680	0.91	15.21
	Male	32211	458.04	49.6	150	680	150	680	0.91	14.64
	Language Proficiency NA	51592	471.63	48.8	150	680	150	680	0.90	15.11
	Language Proficiency NEP	1746	389.93	52.9	150	680	150	539	0.88	18.49
	Language Proficiency LEP	7934	441.76	36.66	150	680	150	680	0.87	13.13
	Language Proficiency FEP	1799	484.92	38.65	150	680	343	680	0.83	16.02
	Not Migrant Or Immigrant	62418	466.36	49.75	150	680	150	680	0.91	14.90
	Migrant	140	427.62	53.39	150	680	150	536	0.92	15.60
	Immigrant	494	432.54	70	150	680	150	613	0.94	16.79
	Migrant and Immigrant	9	407.67	30.62	150	680	366	456	0.87	10.93
	No Disability	57764	493.1	47.02	190	730	190	730	0.89	15.31
	Disability	6401	433.81	48.01	190	730	190	683	0.90	15.13
	No IEP	57753	493.1	47.02	190	730	190	730	0.89	15.31
	IEP	6396	433.81	47.99	190	730	190	683	0.90	15.13
	No Accommodation	46941	495.8	45.88	190	730	190	730	0.89	15.34
	Accommodation	12842	448.22	47.8	190	730	190	730	0.90	14.98
	Am. Indian/AK Native	461	465.26	49.1	190	730	247	669	0.91	14.67
	Asian/Pacific Islander	2086	503.72	55.01	190	730	222	730	0.91	16.10
	Black	2956	465.9	50.05	190	730	226	669	0.91	15.03
	Hispanic	21144	468.34	46.37	190	730	190	730	0.90	14.56
	White	35129	499.11	48.15	190	730	190	730	0.90	15.54
	Hawaiian/Pacific Islander	142	491.64	49.28	190	730	325	683	0.89	16.39
	Two or More Races	2245	495.06	51.08	190	730	312	730	0.91	15.72
4	**Not Free Lunch Eligible**	35344	503.67	47.41	190	730	190	730	0.89	15.74
	Free Lunch Eligible	24168	464.34	46.11	190	730	190	683	0.90	14.56
	Reduced Lunch Eligible	4624	480.71	45.06	190	730	291	688	0.89	14.73
	Female	31597	496.71	49.67	190	730	190	730	0.90	15.62
	Male	32567	477.95	49.28	190	730	190	730	0.91	14.74
	Language Proficiency NA	51638	492.97	49.12	190	730	190	730	0.90	15.35
	Language Proficiency NEP	1754	408.55	48.42	190	730	190	634	0.88	16.75
	Language Proficiency LEP	7702	459.55	36.18	190	730	190	591	0.86	13.66
	Language Proficiency FEP	3065	504.28	38.48	190	730	268	688	0.83	15.99
	Not Migrant Or Immigrant	63533	487.53	50.08	190	730	190	730	0.91	15.22
	Migrant	177	456.9	42.91	190	730	311	583	0.89	14.04
	Immigrant	426	451.42	71.37	190	730	190	647	0.94	17.17
	Migrant and Immigrant	12	391.92	69.96	190	730	257	485	0.93	18.01

Table 224. Subgroup Reliability for the TCAP Writing Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
5	**No Disability**	56553	513.08	51.41	220	780	220	780	0.90	16.36
	Disability	6438	448.31	48.48	220	780	220	699	0.89	15.82
	No IEP	56545	513.08	51.41	220	780	220	780	0.90	16.36
	IEP	6436	448.33	48.53	220	780	220	699	0.89	15.82
	No Accommodation	46356	515.39	50.07	220	780	220	780	0.89	16.31
	Accommodation	12256	464.9	52.75	220	780	220	780	0.91	16.11
	Am. Indian/AK Native	459	482.05	53.83	220	780	231	780	0.91	15.95
	Asian	2126	524.87	62.8	220	780	220	780	0.92	17.43
	Black	2870	482.9	53.13	220	780	220	695	0.91	15.55
	Hispanic	20587	485.9	49.77	220	780	220	780	0.90	15.45
	White	34733	519.41	52.71	220	780	220	780	0.90	16.53
	Hawaiian/Pacific Islander	121	504.71	49.58	220	780	351	662	0.90	15.81
	Two or More Races	2095	513.04	53.56	220	780	287	780	0.91	16.44
	Not Free Lunch Eligible	34894	523.97	52.15	220	780	220	780	0.90	16.78
	Free Lunch Eligible	23394	482.01	49.85	220	780	220	780	0.90	15.42
	Reduced Lunch Eligible	4676	498.29	47.88	220	780	220	780	0.89	15.57
	Female	30798	517.19	53.34	220	780	220	780	0.90	16.61
	Male	32191	496.21	54.12	220	780	220	780	0.92	15.76
	Language Proficiency NA	50718	512.57	53.45	220	780	220	780	0.91	16.28
	Language Proficiency NEP	1205	410.61	57.01	220	780	220	616	0.88	19.48
	Language Proficiency LEP	6986	470.39	37.08	220	780	283	695	0.86	14.12
	Language Proficiency FEP	4079	520.64	43.01	220	780	287	780	0.84	17.03
	Not Migrant Or Immigrant	62332	506.94	54.34	220	780	220	780	0.91	16.19
	Migrant	192	471	55.35	220	780	325	644	0.92	15.77
	Immigrant	442	457.93	78.37	220	780	220	648	0.94	19.06
	Migrant and Immigrant	13	418.31	52.89	220	780	304	508	0.87	18.81
6	**No Disability**	56413	530.45	54.69	230	840	230	840	0.89	17.93
	Disability	6284	458.38	50.26	230	840	230	706	0.87	18.10
	No IEP	56413	530.46	54.69	230	840	230	840	0.89	17.93
	IEP	6279	458.33	50.26	230	840	230	706	0.87	18.10
	No Accommodation	48727	531.15	54.19	230	840	230	840	0.89	17.91
	Accommodation	9472	474.16	56.2	230	840	230	746	0.90	18.23
	Am. Indian/AK Native	504	498.62	55.4	230	840	265	689	0.89	18.04
	Asian/Pacific Islander	1985	546.76	64.21	230	840	310	840	0.91	18.84
	Black	2904	498.59	55.06	230	840	230	693	0.90	17.32
	Hispanic	20349	500.93	52.21	230	840	230	786	0.89	17.19
	White	34654	536.87	56.95	230	840	230	840	0.90	18.13
	Hawaiian/Pacific Islander	128	523.37	55.03	230	840	366	665	0.90	17.17
	Two or More Races	2167	531.76	58.27	230	840	320	840	0.91	17.80
	Not Free Lunch Eligible	35068	542.29	55.66	230	840	230	840	0.89	18.28
	Free Lunch Eligible	22858	496.04	52.22	230	840	230	840	0.89	17.24
	Reduced Lunch Eligible	4736	513.59	51.88	230	840	230	743	0.89	17.13
	Female	30960	535.16	55.74	230	840	230	840	0.90	18.06
	Male	31736	511.59	58.64	230	840	230	840	0.91	17.63
	Language Proficiency NA	50906	529.13	57.87	230	840	230	840	0.90	17.97
	Language Proficiency NEP	895	422.25	57.61	230	840	230	590	0.86	21.31
	Language Proficiency LEP	6177	480.96	38.73	230	840	328	620	0.83	15.90
	Language Proficiency FEP	4709	534.02	43.24	230	840	297	840	0.84	17.38
	Not Migrant Or Immigrant	62075	523.7	58.09	230	840	230	840	0.91	17.89
	Migrant	169	484.57	54.89	230	840	300	624	0.89	18.10
	Immigrant	431	473.28	76.36	230	840	230	631	0.93	20.03
	Migrant and Immigrant	13	455.31	74.36	230	840	244	548	0.89	24.63

Table 224. Subgroup Reliability for the TCAP Writing Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	56264	566.82	65.69	240	890	240	890	0.89	21.36
	Disability	5701	481.84	58.15	240	890	240	862	0.87	20.68
	No IEP	56254	566.82	65.7	240	890	240	890	0.89	21.36
	IEP	5703	481.91	58.15	240	890	240	862	0.87	20.68
	No Accommodation	49424	566.43	64.96	240	890	240	890	0.89	21.22
	Accommodation	7524	497.37	67.5	240	890	240	855	0.90	21.19
	Am. Indian/AK Native	509	530.26	69.04	240	890	264	750	0.91	20.64
	Asian	1945	583.68	81.03	240	890	240	890	0.92	22.78
	Black	2962	531.27	64.45	240	890	240	890	0.90	20.34
	Hispanic	20095	530.79	61.58	240	890	240	845	0.90	19.92
	White	34344	576.3	67.31	240	890	240	890	0.90	21.51
	Hawaiian/Pacific Islander	118	551.75	59.41	240	890	426	716	0.89	19.62
7	Two or More Races	1989	570.2	68.38	240	890	348	861	0.90	21.49
	Not Free Lunch Eligible	35524	581.22	66.41	240	890	240	890	0.89	21.82
	Free Lunch Eligible	21842	525.59	61.57	240	890	240	845	0.90	19.92
	Reduced Lunch Eligible	4564	546.28	61.2	240	890	240	845	0.89	20.14
	Female	30204	574.07	67.78	240	890	240	890	0.90	21.71
	Male	31757	544.67	68.1	240	890	240	890	0.91	20.38
	Language Proficiency NA	50617	567.02	68.42	240	890	240	890	0.90	21.26
	Language Proficiency NEP	874	431.25	67.43	240	890	240	687	0.86	25.44
	Language Proficiency LEP	5290	500.19	41.6	240	890	240	674	0.82	17.67
	Language Proficiency FEP	5176	562.3	51.04	240	890	303	890	0.83	20.81
	Not Migrant Or Immigrant	61329	559.77	68.92	240	890	240	890	0.91	21.10
	Migrant	152	505.05	58.58	240	890	329	666	0.90	18.93
	Immigrant	458	479.63	91.2	240	890	240	701	0.93	23.87
	Migrant and Immigrant	17	438.06	72.68	240	890	270	547	0.85	28.59
	No Disability	55098	572.77	64.76	250	910	250	910	0.90	20.67
	Disability	5492	483.8	58.3	250	910	250	796	0.88	20.30
	No IEP	55096	572.78	64.75	250	910	250	910	0.90	20.67
	IEP	5487	483.74	58.27	250	910	250	796	0.88	20.30
	No Accommodation	49036	571.12	64.31	250	910	250	910	0.90	20.45
	Accommodation	6720	502.16	69.31	250	910	250	908	0.91	20.85
	Am. Indian/AK Native	510	536.32	64.52	250	910	328	796	0.91	19.54
	Asian/Pacific Islander	1839	585.68	82.01	250	910	250	910	0.93	22.48
	Black	3025	535.52	64.8	250	910	250	900	0.91	19.56
	Hispanic	19154	538.69	61.68	250	910	250	910	0.90	19.37
	White	33940	580.66	67.2	250	910	250	910	0.90	20.80
	Hawaiian/Pacific Islander	160	558.53	68.47	250	910	340	723	0.91	20.05
8	Two or More Races	1961	575.83	69.61	250	910	298	910	0.91	21.37
	Not Free Lunch Eligible	35493	585.43	66.58	250	910	250	910	0.90	21.11
	Free Lunch Eligible	20635	531.86	61.18	250	910	250	910	0.90	19.32
	Reduced Lunch Eligible	4429	551.82	60.45	250	910	264	910	0.90	19.38
	Female	29677	579.9	67	250	910	250	910	0.90	21.05
	Male	30913	550.12	67.91	250	910	250	910	0.92	19.73
	Language Proficiency NA	50132	571.54	68.39	250	910	250	910	0.91	20.58
	Language Proficiency NEP	678	433.09	66.05	250	910	250	675	0.86	24.95
	Language Proficiency LEP	4229	504.26	43.16	250	910	272	698	0.83	17.78
	Language Proficiency FEP	5546	565.16	50.92	250	910	360	910	0.85	20.01
	Not Migrant Or Immigrant	59979	565.46	68.54	250	910	250	910	0.91	20.45
	Migrant	129	504.19	64.79	250	910	309	670	0.91	19.80
	Immigrant	459	487.46	86.27	250	910	250	813	0.93	22.84
	Migrant and Immigrant	16	459.94	78.43	250	910	328	591	0.92	22.61

Table 224. Subgroup Reliability for the TCAP Writing Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	55456	580.55	71.31	260	930	260	930	0.91	21.39
	Disability	5220	487.1	63.13	260	930	260	842	0.89	21.21
	No IEP	55441	580.57	71.3	260	930	260	930	0.91	21.39
	IEP	5229	487.12	63.13	260	930	260	842	0.89	21.22
	No Accommodation	51047	576.46	71.72	260	930	260	930	0.91	21.13
	Accommodation	4054	491.38	72.14	260	930	260	829	0.90	22.36
	Am. Indian/AK Native	476	536.51	65.26	260	930	291	733	0.91	19.68
	Asian	1911	597.88	86.92	260	930	260	930	0.93	22.80
	Black	3063	538.43	70.5	260	930	260	801	0.91	20.65
	Hispanic	18912	541.49	67.04	260	930	260	930	0.91	20.18
	White	34314	591.14	72.69	260	930	260	930	0.91	21.55
	Hawaiian/Pacific Islander	147	576.09	73.75	260	930	338	770	0.92	21.19
9	Two or More Races	1848	583.54	73.28	260	930	276	881	0.92	21.42
	Not Free Lunch Eligible	36792	594.15	71.97	260	930	260	930	0.91	21.77
	Free Lunch Eligible	19495	534.72	67.58	260	930	260	930	0.91	20.24
	Reduced Lunch Eligible	4345	559.17	65.68	260	930	260	881	0.91	20.12
	Female	29790	588.07	73.65	260	930	260	930	0.91	21.89
	Male	30878	557.51	73.91	260	930	260	930	0.92	20.46
	Language Proficiency NA	50403	581.01	73.73	260	930	260	930	0.92	21.31
	Language Proficiency NEP	676	421.17	72.06	260	930	260	707	0.85	27.54
	Language Proficiency LEP	3553	496.26	45.53	260	930	299	775	0.83	18.61
	Language Proficiency FEP	6039	563.48	56.48	260	930	260	881	0.87	20.28
	Not Migrant Or Immigrant	59972	573.59	74.47	260	930	260	930	0.92	21.18
	Migrant	144	503.47	77.06	260	930	260	796	0.92	22.27
	Immigrant	532	473.42	94.04	260	930	260	801	0.93	24.81
	Migrant and Immigrant	16	474.31	78.91	260	930	364	592	0.94	19.72
	No Disability	52862	585.16	76.41	270	950	270	950	0.90	23.79
	Disability	4517	487.68	62.24	270	950	270	790	0.89	20.99
	No IEP	52857	585.16	76.42	270	950	270	950	0.90	23.78
	IEP	4512	487.66	62.21	270	950	270	790	0.89	20.99
	No Accommodation	48878	580.47	76.92	270	950	270	950	0.91	23.43
	Accommodation	3310	495.9	74.77	270	950	270	841	0.91	22.64
	Am. Indian/AK Native	456	550.06	76.65	270	950	275	854	0.92	22.10
	Asian/Pacific Islander	1875	598.08	92.8	270	950	270	950	0.93	25.31
	Black	2706	544.2	75.26	270	950	270	792	0.91	22.29
	Hispanic	17021	544.56	71.38	270	950	270	868	0.91	21.89
	White	33474	595.57	77.24	270	950	270	950	0.91	23.84
	Hawaiian/Pacific Islander	143	564.46	71.47	270	950	304	747	0.90	22.23
10	Two or More Races	1707	589.93	78.89	270	950	306	888	0.91	24.37
	Not Free Lunch Eligible	36727	596.98	77.45	270	950	270	950	0.90	24.09
	Free Lunch Eligible	16801	538.36	71.32	270	950	270	950	0.91	21.80
	Reduced Lunch Eligible	3812	562.37	70.97	270	950	270	865	0.91	21.89
	Female	28204	594.91	77.71	270	950	270	950	0.90	24.34
	Male	29175	560.65	78.23	270	950	270	950	0.92	22.34
	Language Proficiency NA	48147	585.99	78.28	270	950	270	950	0.91	23.50
	Language Proficiency NEP	625	418.91	68.15	270	950	270	608	0.83	28.46
	Language Proficiency LEP	3037	496.93	45.66	270	950	270	679	0.83	18.74
	Language Proficiency FEP	5560	565.71	62.54	270	950	270	854	0.87	22.72
	Not Migrant Or Immigrant	56710	578.49	79.11	270	950	270	950	0.91	23.33
	Migrant	108	508.7	75.26	270	950	270	685	0.92	21.74
	Immigrant	536	488.13	97.65	270	950	270	938	0.93	26.06
	Migrant and Immigrant	15	463.93	55.38	270	950	317	545	0.75	27.79

Table 225. Subgroup Reliability for the TCAP Mathematics Tests

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	58320	475.72	84.98	150	700	150	700	0.90	26.68
	Disability	5952	383.16	92.44	150	700	150	700	0.91	28.09
	No IEP	58317	475.73	84.97	150	700	150	700	0.90	26.68
	IEP	5948	383.04	92.41	150	700	150	700	0.91	28.10
	No Accommodation	49005	480.79	82.16	150	700	150	700	0.90	26.64
	Accommodation	11022	389.23	82.63	150	700	150	700	0.89	27.40
	Am. Indian/AK Native	483	430.04	85.09	150	700	150	700	0.90	26.49
	Asian	2034	498.34	92.59	150	700	150	700	0.91	27.39
	Black	2845	419.99	87.89	150	700	150	700	0.91	27.06
	Hispanic	21334	430.37	84.74	150	700	150	700	0.90	26.60
	White	35319	491.04	83.49	150	700	150	700	0.90	26.88
	Hawaiian/Pacific Islander	131	468.82	85.37	150	700	270	700	0.91	26.01
	Two or More Races	2127	480.95	88.56	150	700	150	700	0.91	27.09
3	Not Free Lunch Eligible	35151	496.56	83.03	150	700	150	700	0.89	26.97
	Free Lunch Eligible	24535	426.44	84.46	150	700	150	700	0.90	26.67
	Reduced Lunch Eligible	4561	459.56	80.47	150	700	150	700	0.90	26.09
	Female	31480	464.98	86.48	150	700	150	700	0.91	26.58
	Male	32794	469.23	92.83	150	700	150	700	0.91	27.22
	Language Proficiency NA	51616	478.07	87.51	150	700	150	700	0.91	26.92
	Language Proficiency NEP	2071	347.6	81.3	150	700	150	700	0.86	30.28
	Language Proficiency LEP	8740	423.39	71.59	150	700	150	700	0.88	25.27
	Language Proficiency FEP	1843	503.02	72.27	150	700	226	700	0.87	26.48
	Not Migrant Or Immigrant	63563	467.64	89.6	150	700	150	700	0.91	26.93
	Migrant	148	410.16	84.94	150	700	150	663	0.91	26.24
	Immigrant	545	427.94	99.33	150	700	150	700	0.92	28.23
	Migrant and Immigrant	9	349.67	76.11	150	700	177	435	0.76	37.41
	No Disability	57919	502.08	71.02	180	780	180	780	0.93	18.40
	Disability	6446	407.95	87.6	180	780	180	762	0.94	21.38
	No IEP	57909	502.08	71.03	180	780	180	780	0.93	18.40
	IEP	6443	407.93	87.57	180	780	180	762	0.94	21.39
	No Accommodation	49168	505.58	68.91	180	780	180	780	0.93	18.32
	Accommodation	10941	419.12	78.5	180	780	180	733	0.93	20.53
	Am. Indian/AK Native	459	458.47	77.36	180	780	180	696	0.94	19.27
	Asian/Pacific Islander	2091	523.42	79.65	180	780	180	780	0.94	19.63
	Black	2969	448.09	81.77	180	780	180	719	0.94	19.66
	Hispanic	21274	460.87	74.93	180	780	180	780	0.94	18.90
	White	35174	513.76	71.08	180	780	180	780	0.93	18.60
	Hawaiian/Pacific Islander	144	487.94	74.43	180	780	247	714	0.94	18.61
	Two or More Races	2253	500.75	77.45	180	780	180	780	0.94	19.05
4	Not Free Lunch Eligible	35403	518.89	70.33	180	780	180	780	0.93	18.67
	Free Lunch Eligible	24302	456.13	75.15	180	780	180	780	0.94	19.02
	Reduced Lunch Eligible	4634	483.95	71.01	180	780	180	780	0.93	18.45
	Female	31676	491.72	75.57	180	780	180	780	0.94	18.72
	Male	32685	493.56	80.54	180	780	180	780	0.94	19.15
	Language Proficiency NA	51691	501.94	75.6	180	780	180	780	0.94	18.82
	Language Proficiency NEP	1872	376.97	78.19	180	780	180	780	0.92	22.36
	Language Proficiency LEP	7731	448.73	60.94	180	780	180	700	0.91	17.83
	Language Proficiency FEP	3066	517.51	60.19	180	780	217	780	0.91	18.38
	Not Migrant Or Immigrant	63699	493.11	77.86	180	780	180	780	0.94	18.94
	Migrant	183	441.6	68.31	180	780	225	633	0.92	18.79
	Immigrant	454	454.17	98.61	180	780	180	780	0.95	21.22
	Migrant and Immigrant	14	364.36	104.4	180	780	180	505	0.94	25.03

Table 225. Subgroup Reliability for the TCAP Mathematics Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
5	No Disability	56793	529.63	68.83	220	800	220	800	0.93	18.02
	Disability	6465	437.2	74.72	220	800	220	733	0.93	19.97
	No IEP	56784	529.63	68.83	220	800	220	800	0.93	18.02
	IEP	6465	437.21	74.72	220	800	220	733	0.93	19.97
	No Accommodation	48375	531.56	67.36	220	800	220	800	0.93	17.96
	Accommodation	10658	453.63	73.14	220	800	220	800	0.93	19.33
	Am. Indian/AK Native	459	488.03	75.51	220	800	220	686	0.94	19.08
	Asian	2136	554.37	82.3	220	800	220	800	0.94	19.39
	Black	2877	478.21	74.74	220	800	220	693	0.94	18.78
	Hispanic	20745	490.56	68.97	220	800	220	800	0.93	17.99
	White	34821	539.17	70.19	220	800	220	800	0.93	18.22
	Hawaiian/Pacific Islander	121	516.59	68.75	220	800	324	700	0.93	17.65
	Two or More Races	2100	528.07	75.17	220	800	220	800	0.94	18.55
	Not Free Lunch Eligible	34985	545.05	69.32	220	800	220	800	0.93	18.26
	Free Lunch Eligible	23557	485.24	70.1	220	800	220	800	0.93	18.29
	Reduced Lunch Eligible	4689	510.41	65.23	220	800	220	800	0.93	17.54
	Female	30920	521.28	71.57	220	800	220	800	0.94	17.98
	Male	32338	519.15	77.91	220	800	220	800	0.94	18.68
	Language Proficiency NA	50862	528.21	72.96	220	800	220	800	0.94	18.24
	Language Proficiency NEP	1226	403.39	77.5	220	800	220	662	0.92	22.24
	Language Proficiency LEP	7059	470.64	56.55	220	800	220	800	0.91	17.32
	Language Proficiency FEP	4107	540.88	60.33	220	800	241	800	0.91	17.90
	Not Migrant Or Immigrant	62588	520.66	74.6	220	800	220	800	0.94	18.33
	Migrant	192	473.92	68.77	220	800	221	652	0.93	18.17
	Immigrant	454	476.54	95.89	220	800	220	718	0.95	20.96
	Migrant and Immigrant	12	449.5	43.04	220	800	383	528	0.85	16.57
6	No Disability	56468	550.55	69.04	240	830	240	830	0.94	17.27
	Disability	6293	451.78	76.4	240	830	240	743	0.92	21.80
	No IEP	56469	550.55	69.05	240	830	240	830	0.94	17.28
	IEP	6287	451.72	76.37	240	830	240	743	0.92	21.80
	No Accommodation	50027	550.39	68.35	240	830	240	830	0.94	17.22
	Accommodation	8283	465.25	78.58	240	830	240	830	0.93	21.02
	Am. Indian/AK Native	507	512.6	77.94	240	830	240	769	0.94	19.26
	Asian/Pacific Islander	1992	575.26	81.71	240	830	240	830	0.95	18.33
	Black	2908	497.33	74.19	240	830	240	714	0.93	19.45
	Hispanic	20344	509.27	70.81	240	830	240	804	0.93	18.43
	White	34711	560.49	70.17	240	830	240	830	0.94	17.41
	Hawaiian/Pacific Islander	126	542.31	77.94	240	830	298	708	0.95	18.25
	Two or More Races	2167	549.96	77.44	240	830	240	830	0.95	17.99
	Not Free Lunch Eligible	35141	566.15	69.31	240	830	240	830	0.94	17.28
	Free Lunch Eligible	22856	503.97	71.19	240	830	240	807	0.93	18.82
	Reduced Lunch Eligible	4733	528.57	68.16	240	830	240	830	0.93	17.79
	Female	30995	542.1	71.92	240	830	240	830	0.94	17.58
	Male	31767	539.22	79.49	240	830	240	830	0.95	18.37
	Language Proficiency NA	50964	548.45	74.15	240	830	240	830	0.94	17.78
	Language Proficiency NEP	900	419.28	79.76	240	830	240	623	0.90	24.90
	Language Proficiency LEP	6175	483.49	58.7	240	830	240	701	0.90	18.82
	Language Proficiency FEP	4714	554.3	59.15	240	830	262	830	0.92	16.63
	Not Migrant Or Immigrant	62145	541.11	75.54	240	830	240	830	0.94	17.98
	Migrant	168	488.46	74.66	240	830	240	645	0.93	19.82
	Immigrant	429	497.17	97.49	240	830	240	788	0.95	21.18
	Migrant and Immigrant	14	458.14	84.39	240	830	240	579	0.93	22.82

Table 225. Subgroup Reliability for the TCAP Mathematics Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	56358	574.18	70.41	280	860	280	860	0.93	18.65
	Disability	5718	470.95	81.82	280	860	280	766	0.89	27.12
	No IEP	56348	574.19	70.41	280	860	280	860	0.93	18.65
	IEP	5721	470.96	81.79	280	860	280	766	0.89	27.10
	No Accommodation	50223	572.5	70.72	280	860	280	860	0.93	18.78
	Accommodation	7094	489.35	86.09	280	860	280	812	0.92	24.85
	Am. Indian/AK Native	507	532.77	81.71	280	860	280	732	0.93	21.54
	Asian	1949	600.33	80.61	280	860	280	860	0.94	19.50
	Black	2978	522.72	76.67	280	860	280	743	0.91	22.74
	Hispanic	20110	533.22	73.48	280	860	280	776	0.92	21.30
	White	34419	584.56	71.73	280	860	280	860	0.93	18.82
	Hawaiian/Pacific Islander	119	551.39	69.18	280	860	336	733	0.92	19.59
	Two or More Races	1990	575.37	75.28	280	860	280	823	0.93	19.29
7	**Not Free Lunch Eligible**	35579	589.36	70.51	280	860	280	860	0.93	18.51
	Free Lunch Eligible	21896	527.13	74.03	280	860	280	822	0.91	22.06
	Reduced Lunch Eligible	4564	552.78	70.51	280	860	280	808	0.92	19.88
	Female	30246	566.4	73.33	280	860	280	850	0.93	19.23
	Male	31828	563.03	81.26	280	860	280	860	0.94	20.39
	Language Proficiency NA	50715	572.52	75.69	280	860	280	860	0.93	19.50
	Language Proficiency NEP	884	445.53	87.66	280	860	280	704	0.88	30.09
	Language Proficiency LEP	5283	501.09	62.43	280	860	280	703	0.86	23.58
	Language Proficiency FEP	5186	573.07	58.32	280	860	280	860	0.91	17.51
	Not Migrant Or Immigrant	61436	565.25	77.18	280	860	280	860	0.93	19.83
	Migrant	154	506.45	82.65	280	860	280	659	0.91	24.90
	Immigrant	461	510.93	91.04	280	860	280	709	0.93	23.41
	Migrant and Immigrant	17	488.94	83	280	860	280	624	0.87	29.99
	No Disability	55192	585.08	64.01	310	890	310	890	0.93	17.00
	Disability	5491	494.94	72.43	310	890	310	768	0.89	23.83
	No IEP	55188	585.08	64.01	310	890	310	890	0.93	17.00
	IEP	5489	494.9	72.41	310	890	310	768	0.89	23.83
	No Accommodation	49956	583.09	64.53	310	890	310	890	0.93	17.16
	Accommodation	6140	510.04	77.32	310	890	310	809	0.92	21.88
	Am. Indian/AK Native	505	553.08	69.24	310	890	310	769	0.92	19.83
	Asian/Pacific Islander	1839	609.55	76.36	310	890	310	890	0.94	18.31
	Black	3033	538.98	70.61	310	890	310	743	0.91	20.77
	Hispanic	19186	548.43	64.9	310	890	310	820	0.91	19.07
	White	33991	594.45	64.98	310	890	310	890	0.93	17.08
	Hawaiian/Pacific Islander	162	566.73	71.79	310	890	310	716	0.92	20.10
8	**Two or More Races**	1964	586.89	68.31	310	890	310	844	0.93	17.52
	Not Free Lunch Eligible	35541	598.53	64.42	310	890	310	890	0.93	16.88
	Free Lunch Eligible	20675	542.41	65.37	310	890	310	787	0.91	19.87
	Reduced Lunch Eligible	4435	564.69	63.08	310	890	310	800	0.92	18.24
	Female	29719	577.94	65.48	310	890	310	890	0.93	17.33
	Male	30961	575.94	73.66	310	890	310	890	0.94	18.52
	Language Proficiency NA	50214	583.62	68.34	310	890	310	890	0.93	17.67
	Language Proficiency NEP	681	461.6	78.01	310	890	310	718	0.88	26.69
	Language Proficiency LEP	4238	515.91	56.31	310	890	310	731	0.86	21.14
	Language Proficiency FEP	5545	577.07	54.28	310	890	310	857	0.91	16.37
	Not Migrant Or Immigrant	60070	577.46	69.4	310	890	310	890	0.93	17.92
	Migrant	134	521.77	69.06	310	890	310	678	0.88	23.90
	Immigrant	455	526.4	89.47	310	890	310	890	0.94	22.18
	Migrant and Immigrant	17	486.12	78.65	310	890	310	592	0.80	35.09

Table 225. Subgroup Reliability for the TCAP Mathematics Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
9	No Disability	55603	586.34	67.68	340	920	340	873	0.92	18.97
	Disability	5245	491.82	76.53	340	920	340	920	0.86	29.16
	No IEP	55588	586.35	67.69	340	920	340	873	0.92	18.97
	IEP	5248	491.86	76.51	340	920	340	920	0.86	29.15
	No Accommodation	51749	581.65	69.44	340	920	340	920	0.92	19.52
	Accommodation	3794	493.72	79.67	340	920	340	737	0.88	28.20
	Am. Indian/AK Native	481	548.72	72.7	340	920	340	709	0.88	24.73
	Asian	1918	612.36	80.67	340	920	340	799	0.94	19.29
	Black	3082	534.03	77.82	340	920	340	754	0.89	25.61
	Hispanic	18960	546.17	70.4	340	920	340	770	0.89	23.41
	White	34409	597.85	65.87	340	920	340	920	0.92	18.27
	Hawaiian/Pacific Islander	148	573.36	63.73	340	920	340	701	0.89	21.59
	Two or More Races	1846	587.2	70.28	340	920	340	797	0.92	19.36
	Not Free Lunch Eligible	36871	599.86	66.13	340	920	340	920	0.93	18.16
	Free Lunch Eligible	19579	540.04	71.94	340	920	340	766	0.88	24.61
	Reduced Lunch Eligible	4353	566.64	66.19	340	920	340	770	0.90	20.93
	Female	29878	579.12	68.89	340	920	340	873	0.92	19.58
	Male	30966	577.3	77.58	340	920	340	920	0.93	20.77
	Language Proficiency NA	50556	585.95	70.67	340	920	340	920	0.92	19.47
	Language Proficiency NEP	690	449.97	80.62	340	920	340	665	0.80	36.53
	Language Proficiency LEP	3563	503.05	66.03	340	920	340	768	0.81	28.67
	Language Proficiency FEP	6034	572.26	59.03	340	920	340	773	0.90	18.93
	Not Migrant Or Immigrant	60132	579.03	72.73	340	920	340	920	0.92	20.08
	Migrant	145	509.2	77.29	340	920	340	689	0.84	30.57
	Immigrant	542	506.96	100.3	340	920	340	770	0.93	27.12
	Migrant and Immigrant	16	493.88	95.58	340	920	340	610	0.84	38.85
10	No Disability	52993	600.08	68.32	370	950	370	950	0.93	18.38
	Disability	4524	503.5	74.17	370	950	370	780	0.84	29.76
	No IEP	52989	600.09	68.33	370	950	370	950	0.93	18.38
	IEP	4521	503.49	74.15	370	950	370	780	0.84	29.82
	No Accommodation	49584	595.04	70.48	370	950	370	950	0.93	19.02
	Accommodation	3060	512.97	82.2	370	950	370	777	0.90	26.48
	Am. Indian/AK Native	454	567.4	74.24	370	950	370	772	0.91	21.83
	Asian/Pacific Islander	1882	625.84	76.95	370	950	370	881	0.94	18.23
	Black	2714	553.42	75.73	370	950	370	772	0.90	23.79
	Hispanic	17058	559.26	71.87	370	950	370	787	0.90	22.73
	White	33558	610.55	66.36	370	950	370	950	0.93	17.84
	Hawaiian/Pacific Islander	146	577.09	76.89	370	950	370	760	0.92	21.37
	Two or More Races	1709	603.09	71.3	370	950	370	846	0.94	17.99
	Not Free Lunch Eligible	36782	611.35	67.48	370	950	370	950	0.93	17.83
	Free Lunch Eligible	16877	554.28	72.26	370	950	370	771	0.89	23.73
	Reduced Lunch Eligible	3821	580.05	66.71	370	950	370	766	0.91	20.61
	Female	28247	590.62	69.64	370	950	370	846	0.92	19.21
	Male	29270	594.31	77.09	370	950	370	950	0.93	19.79
	Language Proficiency NA	48248	599.7	70.92	370	950	370	950	0.93	18.82
	Language Proficiency NEP	641	465.18	76.12	370	950	370	715	0.80	34.19
	Language Proficiency LEP	3047	517.05	65.34	370	950	370	748	0.82	27.98
	Language Proficiency FEP	5569	586.03	61.72	370	950	370	794	0.91	18.97
	Not Migrant Or Immigrant	56844	593.13	73.07	370	950	370	950	0.93	19.41
	Migrant	109	529.98	76.73	370	950	370	668	0.83	31.94
	Immigrant	537	539.58	95.96	370	950	370	739	0.93	24.97
	Migrant and Immigrant	15	533	67.13	370	950	370	643	0.78	31.18

Table 226. Subgroup Reliability for the TCAP Science Tests

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
5	No Disability	56772	506.2	60.15	300	900	300	720	0.92	17.54
	Disability	6463	432.81	68.95	300	900	300	655	0.91	21.26
	No IEP	56763	506.2	60.16	300	900	300	720	0.92	17.54
	IEP	6462	432.81	68.97	300	900	300	655	0.91	21.26
	No Accommodation	49429	507.94	58.64	300	900	300	720	0.91	17.42
	Accommodation	9418	436.98	65.95	300	900	300	663	0.90	21.08
	Am. Indian/AK Native	460	470.54	65.31	300	900	300	658	0.91	19.34
	Asian	2136	513.3	68.47	300	900	300	683	0.93	18.48
	Black	2873	461.31	65.68	300	900	300	637	0.91	19.90
	Hispanic	20737	466.4	63.25	300	900	300	688	0.91	19.41
	White	34809	519.97	56.07	300	900	300	720	0.91	17.11
	Hawaiian/Pacific Islander	122	492.7	62.15	300	900	333	614	0.92	17.93
	Two or More Races	2099	507.91	60.95	300	900	300	673	0.92	17.72
	Not Free Lunch Eligible	34980	523.05	55.41	300	900	300	720	0.91	17.00
	Free Lunch Eligible	23541	464.23	63.35	300	900	300	681	0.90	19.65
	Reduced Lunch Eligible	4688	490.15	59.12	300	900	300	664	0.90	18.31
	Female	30894	498.72	62.89	300	900	300	691	0.92	17.99
	Male	32340	498.68	67.01	300	900	300	720	0.93	18.28
	Language Proficiency NA	50848	508.8	60.74	300	900	300	720	0.92	17.64
	Language Proficiency NEP	1218	379.11	60.53	300	900	300	569	0.82	25.58
	Language Proficiency LEP	7061	441.05	52.41	300	900	300	631	0.85	20.60
	Language Proficiency FEP	4105	508.32	48.08	300	900	300	673	0.88	16.63
	Not Migrant Or Immigrant	62570	499.28	64.64	300	900	300	720	0.92	18.12
	Migrant	192	445.9	64.32	300	900	300	604	0.89	21.11
	Immigrant	449	443.43	83.47	300	900	300	669	0.93	21.43
	Migrant and Immigrant	12	414.67	46.7	300	900	300	504	0.65	27.64
8	No Disability	55127	510.18	55.86	300	900	300	719	0.92	15.70
	Disability	5484	432.03	65.2	300	900	300	675	0.90	20.78
	No IEP	55128	510.18	55.85	300	900	300	719	0.92	15.70
	IEP	5477	431.94	65.17	300	900	300	675	0.90	20.79
	No Accommodation	50609	508.86	56.01	300	900	300	719	0.92	15.74
	Accommodation	5326	432.46	66.91	300	900	300	685	0.91	20.57
	Am. Indian/AK Native	510	479.11	62.1	300	900	300	634	0.92	18.10
	Asian/Pacific Islander	1837	519.22	64.58	300	900	300	670	0.93	16.64
	Black	3025	469.27	62.83	300	900	300	658	0.91	18.51
	Hispanic	19162	474.79	59.98	300	900	300	682	0.91	17.78
	White	33952	521.02	53.6	300	900	300	719	0.92	15.38
	Hawaiian/Pacific Islander	162	491.88	58.46	300	900	300	622	0.92	16.88
	Two or More Races	1963	513.77	57.38	300	900	300	666	0.92	15.78
	Not Free Lunch Eligible	35495	522.96	53.28	300	900	300	719	0.92	15.30
	Free Lunch Eligible	20644	470.81	60.35	300	900	300	681	0.91	18.22
	Reduced Lunch Eligible	4440	494.6	55.82	300	900	300	685	0.91	16.59
	Female	29667	503.39	58.45	300	900	300	707	0.92	16.14
	Male	30944	502.83	63.41	300	900	300	719	0.93	16.60
	Language Proficiency NA	50140	510.79	58	300	900	300	719	0.92	15.97
	Language Proficiency NEP	679	380.85	60.35	300	900	300	578	0.82	25.78
	Language Proficiency LEP	4231	436.27	49.98	300	900	300	591	0.83	20.71
	Language Proficiency FEP	5556	499.54	46.43	300	900	300	656	0.89	15.44
	Not Migrant Or Immigrant	59997	503.75	60.56	300	900	300	719	0.93	16.34
	Migrant	134	440.57	64.57	300	900	300	592	0.89	21.09
	Immigrant	458	439.57	75.02	300	900	300	621	0.93	20.45
	Migrant and Immigrant	16	415.75	70.71	300	900	300	549	0.89	23.66

Table 226. Subgroup Reliability for the TCAP Science Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
10	No Disability	52891	508.94	58.96	300	900	300	708	0.91	17.40
	Disability	4522	429.5	64.33	300	900	300	659	0.88	22.26
	No IEP	52884	508.94	58.96	300	900	300	708	0.91	17.41
	IEP	4521	429.49	64.28	300	900	300	659	0.88	22.26
	No Accommodation	49638	504.99	60.71	300	900	300	708	0.92	17.68
	Accommodation	2857	427.1	66.51	300	900	300	671	0.89	22.14
	Am. Indian/AK Native	455	482.22	62.33	300	900	300	634	0.91	18.68
	Asian	1873	520.69	65.21	300	900	300	691	0.93	17.91
	Black	2715	470.96	65.2	300	900	300	647	0.90	20.32
	Hispanic	17026	472.01	62.47	300	900	300	656	0.90	19.56
	White	33496	519.64	55.96	300	900	300	708	0.91	16.94
	Hawaiian/Pacific Islander	143	490.83	64.89	300	900	300	609	0.92	18.77
	Two or More Races	1711	512.94	60.62	300	900	300	679	0.92	17.50
	Not Free Lunch Eligible	36740	519.36	56.94	300	900	300	708	0.91	17.02
	Free Lunch Eligible	16829	468.65	62.91	300	900	300	657	0.90	19.95
	Reduced Lunch Eligible	3809	492.36	58.19	300	900	300	642	0.90	18.25
	Female	28218	502.79	59.13	300	900	300	679	0.91	17.72
	Male	29197	502.57	66.78	300	900	300	708	0.93	18.15
	Language Proficiency NA	48169	510.14	60.16	300	900	300	708	0.92	17.55
	Language Proficiency NEP	634	376.52	57.75	300	900	300	588	0.79	26.61
	Language Proficiency LEP	3040	428.77	52.3	300	900	300	590	0.81	22.88
	Language Proficiency FEP	5561	492.93	50.35	300	900	300	661	0.88	17.38
	Not Migrant Or Immigrant	56744	503.43	62.57	300	900	300	708	0.92	17.89
	Migrant	109	440.06	66.08	300	900	300	550	0.87	23.44
	Immigrant	535	438.03	79.99	300	900	300	639	0.92	22.42
	Migrant and Immigrant	15	432.33	43.46	300	900	339	508	0.71	23.37

Table 227. Subgroup Reliability for the TCAP Spanish Reading Tests

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	1070	531.23	43.39	300	740	300	708	0.87	15.64
	Disability	97	453.86	69.61	300	740	300	549	0.85	27.33
	No IEP	1070	531.23	43.39	300	740	300	708	0.87	15.64
	IEP	97	453.86	69.61	300	740	300	549	0.85	27.33
	No Accommodation	916	532.78	46.68	300	740	300	708	0.87	16.55
	Accommodation	244	495.33	54.99	300	740	300	600	0.87	19.54
	Am. Indian/AK Native	4	526.5	47.09	300	740	487	584	.	.
	Asian	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	1155	524.79	50.85	300	740	300	708	0.88	17.30
	White	7	515	49.24	300	740	459	592	0.90	15.40
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	1	591	.	300	740	591	591	.	.
3	Not Free Lunch Eligible	41	533.17	57.95	300	740	300	652	0.89	19.24
	Free Lunch Eligible	1065	523.96	50.67	300	740	300	708	0.88	17.28
	Reduced Lunch Eligible	61	533.82	47.62	300	740	405	614	0.89	15.68
	Female	594	534.07	48.24	300	740	300	708	0.88	16.79
	Male	573	515.19	51.66	300	740	300	652	0.88	17.67
	Language Proficiency NA	7	506	66.56	300	740	377	578	0.91	20.28
	Language Proficiency NEP	306	495.75	59.46	300	740	300	652	0.88	20.27
	Language Proficiency LEP	811	533.76	42.53	300	740	300	708	0.86	15.69
	Language Proficiency FEP	43	565.6	32.07	300	740	507	623	0.75	16.15
	Not Migrant Or Immigrant	1117	525.05	50.72	300	740	300	708	0.89	17.17
	Migrant	7	522.29	41.92	300	740	457	578	0.88	14.58
	Immigrant	43	518.56	55.13	300	740	300	652	0.86	20.63
	Migrant and Immigrant	.	.	.	.	.	.	.	.	.
	No Disability	106	523.18	43.49	300	790	300	622	0.91	12.95
	Disability	2	409	100.4	300	790	338	480	.	.
	No IEP	105	522.61	43.3	300	790	300	622	0.91	13.02
	IEP	2	409	100.4	300	790	338	480	.	.
	No Accommodation	71	519.97	47.09	300	790	300	622	0.92	13.71
	Accommodation	35	519.2	44.58	300	790	338	588	0.91	13.64
	Am. Indian/AK Native	.	.	.	.	.	.	.	.	.
	Asian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	105	520.88	45.98	300	790	300	622	0.91	13.66
	White	3	527.67	84.57	300	790	431	588	.	.
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	.	.	.	.	.	.	.	.	.
4	Not Free Lunch Eligible	9	566.56	43.44	300	790	488	622	0.94	10.62
	Free Lunch Eligible	93	516.17	45.37	300	790	300	609	0.90	14.28
	Reduced Lunch Eligible	5	517.8	35.54	300	790	488	558	0.92	10.16
	Female	50	516.56	48.04	300	790	300	609	0.90	14.89
	Male	58	524.95	45.75	300	790	338	622	0.92	12.63
	Language Proficiency NA	2	543.5	27.58	300	790	524	563	.	.
	Language Proficiency NEP	94	518.04	46.57	300	790	300	622	0.91	13.92
	Language Proficiency LEP	12	541	47.84	300	790	420	605	0.94	12.21
	Language Proficiency FEP	.	.	.	.	.	.	.	.	.
	Not Migrant Or Immigrant	76	519.46	50.9	300	790	300	622	0.92	14.32
	Migrant	3	541.33	23.97	300	790	527	569	.	.
	Immigrant	26	520.31	34.6	300	790	448	616	0.89	11.27
	Migrant and Immigrant	2	530.5	58.69	300	790	489	572	.	.

Table 228. Subgroup Reliability for the TCAP Spanish Writing Tests

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
	No Disability	1077	516.21	71.69	250	750	250	750	0.91	21.70
	Disability	101	418.57	81.34	250	750	250	551	0.92	23.74
	No IEP	1077	516.21	71.69	250	750	250	750	0.91	21.70
	IEP	101	418.57	81.34	250	750	250	551	0.92	23.74
	No Accommodation	913	520.5	72.71	250	750	250	750	0.91	21.84
	Accommodation	259	464.89	78.04	250	750	250	643	0.92	22.03
	Am. Indian/AK Native	4	550.25	71.78	250	750	448	611	.	.
	Asian	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	1166	507.76	77.49	250	750	250	750	0.92	21.80
	White	7	490.29	91.28	250	750	370	612	0.95	20.74
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	1	551	.	250	750	551	551	.	.
3	Not Free Lunch Eligible	43	518.02	75.41	250	750	262	646	0.92	20.83
	Free Lunch Eligible	1074	506.66	77.32	250	750	250	750	0.92	21.84
	Reduced Lunch Eligible	61	521.38	81.74	250	750	311	677	0.93	21.12
	Female	604	524.92	75.75	250	750	250	750	0.92	22.02
	Male	574	489.87	75.32	250	750	250	718	0.92	21.48
	Language Proficiency NA	7	470.29	72.72	250	750	322	549	0.93	19.12
	Language Proficiency NEP	317	461.89	79.41	250	750	250	654	0.92	22.28
	Language Proficiency LEP	811	522.67	69.14	250	750	267	750	0.90	21.74
	Language Proficiency FEP	43	573.07	56.78	250	750	471	707	0.81	24.89
	Not Migrant Or Immigrant	1123	509.06	77.19	250	750	250	750	0.92	21.79
	Migrant	7	491.14	75.66	250	750	387	594	0.91	22.73
	Immigrant	48	481.65	82.06	250	750	262	646	0.93	21.00
	Migrant and Immigrant	.	.	.	.	.	.	.	.	.
	No Disability	100	495.81	43.84	300	790	381	616	0.86	16.47
	Disability	2	433	14.14	300	790	423	443	.	.
	No IEP	99	495	43.3	300	790	381	616	0.86	16.52
	IEP	2	433	14.14	300	790	423	443	.	.
	No Accommodation	57	495.96	46.47	300	790	382	616	0.87	16.58
	Accommodation	39	490.95	42.59	300	790	381	575	0.85	16.50
	Am. Indian/AK Native	.	.	.	.	.	.	.	.	.
	Asian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	99	494.31	42.69	300	790	381	616	0.85	16.45
	White	3	503.33	98.51	300	790	391	575	.	.
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	.	.	.	.	.	.	.	.	.
4	Not Free Lunch Eligible	8	549.88	35.65	300	790	487	616	0.86	13.18
	Free Lunch Eligible	88	488.4	41.78	300	790	381	576	0.83	17.25
	Reduced Lunch Eligible	5	498.6	26.98	300	790	468	541	0.82	11.42
	Female	48	493.63	40.59	300	790	391	576	0.82	17.26
	Male	54	495.43	47.72	300	790	381	616	0.89	15.94
	Language Proficiency NA	2	523.5	23.33	300	790	507	540	.	.
	Language Proficiency NEP	89	491.53	44.36	300	790	381	616	0.86	16.42
	Language Proficiency LEP	11	514	42.26	300	790	423	567	0.84	16.80
	Language Proficiency FEP	.	.	.	.	.	.	.	.	.
	Not Migrant Or Immigrant	71	494.48	46.45	300	790	381	616	0.87	16.54
	Migrant	3	488.33	21.36	300	790	464	504	.	.
	Immigrant	25	490.4	36.78	300	790	409	553	0.81	16.08
	Migrant and Immigrant	2	519	73.54	300	790	467	571	.	.

Table 229. Scale Scores by Accommodation and Disability Classification

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Reading	3	No Disability	51409	575.76	63.43	5731	503.53	84.40
		Disability	2263	506.57	102.79	3554	429.51	116.21
		No IEP	51400	575.76	63.44	5729	503.54	84.41
		IEP	2261	506.52	102.82	3554	429.52	116.22
	4	No Disability	50758	602.43	47.93	7095	555.21	60.03
		Disability	1989	540.17	85.19	4420	492.59	88.19
		No IEP	50744	602.43	47.93	7098	555.21	60.06
		IEP	1988	540.18	85.21	4416	492.54	88.16
	5	No Disability	49980	627.29	54.23	6758	577.78	68.43
		Disability	1913	555.74	85.06	4533	511.62	90.29
		No IEP	49971	627.29	54.24	6759	577.72	68.52
		IEP	1914	555.80	85.08	4530	511.67	90.25
	6	No Disability	51607	642.31	50.72	4381	596.28	63.48
		Disability	2108	570.57	72.48	4109	536.12	80.14
		No IEP	51606	642.31	50.72	4382	596.31	63.46
		IEP	2103	570.47	72.56	4109	536.07	80.12
	7	No Disability	52941	651.41	53.02	3402	605.64	65.34
		Disability	2100	576.63	72.38	3591	546.17	74.04
		No IEP	52935	651.41	53.02	3398	605.61	65.36
		IEP	2098	576.62	72.44	3595	546.26	74.06
	8	No Disability	51930	660.39	49.99	3211	623.53	60.44
		Disability	2113	592.39	65.26	3366	566.70	68.14
		No IEP	51929	660.39	49.98	3211	623.56	60.41
		IEP	2108	592.28	65.25	3366	566.67	68.14
	9	No Disability	54265	666.29	46.13	1165	619.45	64.66
		Disability	2745	599.10	63.20	2456	586.76	63.81
		No IEP	54251	666.30	46.12	1164	619.47	64.65
		IEP	2747	599.13	63.18	2463	586.88	63.78
	10	No Disability	51753	692.32	49.84	1032	647.37	69.68
		Disability	2476	621.12	63.41	2035	612.00	64.04
		No IEP	51746	692.32	49.85	1034	647.42	69.66
		IEP	2473	621.12	63.42	2033	611.94	64.02

Table 229. Scale Scores by Accommodation and Disability Classification (cont'd)

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Writing	3	No Disability	50497	476.13	45.36	6731	434.31	42.98
		Disability	1745	443.38	49.13	4101	402.81	45.27
		No IEP	50490	476.14	45.35	6729	434.32	42.97
		IEP	1741	443.29	49.17	4102	402.79	45.27
	4	No Disability	49871	497.98	45.58	7893	462.29	44.15
		Disability	1452	461.21	48.73	4949	425.77	44.72
		No IEP	49857	497.99	45.59	7896	462.28	44.17
		IEP	1451	461.24	48.74	4945	425.76	44.69
	5	No Disability	49296	517.86	49.67	7257	480.66	51.31
		Disability	1440	470.10	50.43	4998	442.03	46.03
		No IEP	49287	517.86	49.67	7258	480.65	51.30
		IEP	1441	470.21	50.55	4995	442.02	46.05
	6	No Disability	51611	533.71	53.53	4802	495.46	54.89
		Disability	1615	476.02	50.76	4669	452.27	48.62
		No IEP	51610	533.71	53.52	4803	495.49	54.87
		IEP	1610	476.03	50.84	4669	452.22	48.59
	7	No Disability	52698	569.84	64.22	3566	522.16	70.68
		Disability	1743	497.31	60.51	3958	475.03	55.75
		No IEP	52693	569.84	64.23	3561	522.14	70.72
		IEP	1740	497.41	60.47	3963	475.11	55.77
	8	No Disability	51951	575.23	63.53	3147	532.19	71.00
		Disability	1920	498.91	60.01	3572	475.69	55.70
		No IEP	51949	575.23	63.53	3147	532.20	70.99
		IEP	1915	498.77	59.96	3572	475.68	55.70
	9	No Disability	54158	582.17	70.12	1298	512.91	86.00
		Disability	2470	493.73	63.63	2750	481.15	62.10
		No IEP	54144	582.19	70.12	1297	513.00	85.92
		IEP	2473	493.73	63.59	2756	481.20	62.12
	10	No Disability	51745	586.59	75.39	1117	518.72	92.27
		Disability	2324	490.88	63.36	2193	484.28	60.86
		No IEP	51738	586.59	75.40	1119	518.71	92.30
		IEP	2321	490.88	63.36	2191	484.25	60.79

Table 229. Scale Scores by Accommodation and Disability Classification (cont'd)

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Mathematics	3	No Disability	51445	484.84	81.74	6875	407.48	77.33
		Disability	1807	438.73	90.50	4145	358.94	82.27
		No IEP	51442	484.85	81.74	6875	407.53	77.32
		IEP	1803	438.60	90.55	4145	358.87	82.24
	4	No Disability	51739	509.25	67.86	6180	442.03	68.44
		Disability	1685	460.42	84.97	4761	389.38	80.72
		No IEP	51726	509.26	67.86	6183	442.01	68.48
		IEP	1685	460.36	84.94	4758	389.37	80.70
	5	No Disability	50954	535.54	66.53	5839	478.13	67.06
		Disability	1647	476.05	77.01	4818	423.92	69.09
		No IEP	50946	535.54	66.53	5838	478.12	67.07
		IEP	1648	476.06	76.97	4817	423.91	69.10
	6	No Disability	52628	554.41	67.17	3840	497.68	72.57
		Disability	1851	486.71	74.02	4442	437.23	72.58
		No IEP	52630	554.40	67.18	3839	497.75	72.54
		IEP	1843	486.82	73.92	4444	437.17	72.55
	7	No Disability	53105	577.07	68.91	3253	527.11	77.55
		Disability	1877	498.72	78.90	3841	457.38	79.78
		No IEP	53101	577.07	68.92	3247	527.18	77.54
		IEP	1874	498.74	78.79	3847	457.43	79.79
	8	No Disability	52448	587.18	62.79	2744	544.81	73.15
		Disability	2095	516.00	73.37	3396	481.95	68.71
		No IEP	52444	587.19	62.79	2744	544.82	73.15
		IEP	2093	515.91	73.35	3396	481.94	68.71
	9	No Disability	54455	587.59	66.71	1148	527.25	84.64
		Disability	2601	504.69	78.09	2644	479.15	72.79
		No IEP	54441	587.60	66.72	1147	527.18	84.78
		IEP	2602	504.72	78.09	2646	479.22	72.75
	10	No Disability	51975	601.07	67.55	1018	549.61	86.36
		Disability	2482	510.74	73.92	2042	494.71	73.53
		No IEP	51970	601.07	67.56	1019	549.77	86.28
		IEP	2480	510.81	73.89	2041	494.60	73.50

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Table 229. Scale Scores by Accommodation and Disability Classification (cont'd)

Content Area	Grade	Disability Classification	No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Science	5	No Disability	51980	511.11	57.46	4792	452.99	62.96
		Disability	1838	464.07	68.98	4625	420.38	64.89
		No IEP	51971	511.11	57.46	4792	452.98	62.95
		IEP	1839	464.10	68.99	4623	420.37	64.90
	8	No Disability	53046	512.24	54.30	2081	457.49	67.91
		Disability	2241	454.65	64.31	3243	416.41	61.10
		No IEP	53045	512.24	54.30	2083	457.52	67.84
		IEP	2235	454.52	64.26	3242	416.37	61.12
	10	No Disability	52023	509.97	58.15	868	447.03	72.45
		Disability	2533	438.22	64.96	1989	418.40	61.78
		No IEP	52014	509.97	58.16	870	447.16	72.52
		IEP	2534	438.25	64.91	1987	418.32	61.70
Reading Spanish	3	No Disability	891	535.05	43.55	179	512.20	37.25
		Disability	32	463.94	72.66	65	448.89	68.09
		No IEP	891	535.05	43.55	179	512.20	37.25
		IEP	32	463.94	72.66	65	448.89	68.09
	4	No Disability	73	521.96	48.09	33	525.88	31.48
		Disability	.	.	.	2	409.00	100.41
		No IEP	72	521.11	47.88	33	525.88	31.48
		IEP	.	.	.	2	409.00	100.41
Writing Spanish	3	No Disability	894	521.81	71.94	183	488.86	63.96
		Disability	25	453.24	79.93	76	407.17	79.02
		No IEP	894	521.81	71.94	183	488.86	63.96
		IEP	25	453.24	79.93	76	407.17	79.02
	4	No Disability	63	496.83	45.51	37	494.08	41.38
		Disability	.	.	.	2	433.00	14.14
		No IEP	62	495.55	44.73	37	494.08	41.38
		IEP	.	.	.	2	433.00	14.14

Table 230. Overall Estimates of Standard Error of Measurement

Content Area	Grade	SEM
Reading	3	26.66
	4	16.18
	5	18.79
	6	16.53
	7	16.69
	8	15.96
	9	14.26
	10	15.59
Writing	3	14.92
	4	15.24
	5	16.22
	6	17.91
	7	21.12
	8	20.47
	9	21.07
	10	23.36
Mathematics	3	26.95
	4	18.96
	5	18.18
	6	18.02
	7	19.89
	8	18.16
	9	20.32
	10	19.52
Science	5	18.17
	8	16.41
	10	18.40
Reading Spanish	3	17.28
	4	13.60
Writing Spanish	3	21.78
	4	16.46

Table 231. Reading Scale Scores and Associated Standard Errors

RD 3		RD 4		RD 5		RD 6		RD 7		RD 8		RD 9		RD 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	199														
175	174	180	200												
200	150	200	180	220	225										
225	129	225	155	225	220										
250	111	250	130	250	195	260	196								
275	95	275	109	275	170	275	181								
300	80	300	90	300	145	300	156	300	137						
325	67	325	73	325	120	325	131	325	113	330	126				
350	56	350	60	350	96	350	106	350	93	350	108	350	121	370	130
375	45	375	48	375	77	375	84	375	76	375	88	375	99	375	126
400	36	400	39	400	60	400	66	400	62	400	71	400	81	400	105
425	28	425	31	425	47	425	51	425	51	425	57	425	67	425	87
450	23	450	24	450	36	450	39	450	41	450	46	450	54	450	71
475	21	475	19	475	28	475	30	475	33	475	36	475	44	475	56
500	20	500	15	500	23	500	23	500	25	500	27	500	34	500	44
525	19	525	13	525	19	525	18	525	19	525	21	525	26	525	33
550	18	550	12	550	16	550	15	550	15	550	17	550	19	550	25
575	19	575	12	575	14	575	13	575	13	575	14	575	14	575	18
600	20	600	12	600	13	600	13	600	13	600	13	600	11	600	13
625	23	625	12	625	13	625	13	625	13	625	12	625	11	625	12
650	26	650	14	650	14	650	13	650	14	650	12	650	11	650	11
675	30	675	16	675	15	675	14	675	15	675	13	675	11	675	12
700	35	700	20	700	17	700	16	700	17	700	14	700	13	700	12
725	41	725	25	725	19	725	18	725	19	725	16	725	15	725	14
750	48	750	31	750	21	750	20	750	21	750	19	750	18	750	16
775	55	775	39	775	25	775	24	775	24	775	22	775	22	775	18
795	62	800	47	800	29	800	28	800	27	800	27	800	26	800	21
		825	58	825	34	825	32	825	32	825	32	825	32	825	26
		850	71	850	41	850	38	850	37	850	39	850	40	850	31
		875	87	875	48	875	46	875	43	875	47	875	49	875	37
		900	105	900	58	900	56	900	51	900	58	900	61	900	44
		925	127	925	68	925	68	925	60	925	70	925	75	925	52
		940	141	950	81	950	82	950	71	950	85	950	93	950	62
				955	84	970	96	975	85	975	103	975	115	975	74
								980	88	990	115	995	135	999	87

Table 232. Writing Scale Scores and Associated Standard Errors

WR 3		WR 4		WR 5		WR 6		WR 7		WR 8		WR 9		WR 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	93														
175	74	190	77												
200	59	200	70	220	60										
225	48	225	56	225	58	230	54	240	56						
250	39	250	44	250	45	250	47	250	54	250	49	260	49	270	44
275	30	275	35	275	36	275	38	275	47	275	42	275	44	275	43
300	23	300	28	300	28	300	32	300	42	300	37	300	37	300	37
325	19	325	22	325	23	325	26	325	36	325	32	325	31	325	32
350	16	350	18	350	19	350	22	350	32	350	28	350	27	350	29
375	13	375	15	375	17	375	20	375	28	375	25	375	25	375	27
400	11	400	13	400	15	400	19	400	25	400	23	400	24	400	25
425	10	425	12	425	14	425	16	425	22	425	20	425	23	425	22
450	12	450	12	450	13	450	14	450	18	450	18	450	21	450	18
475	14	475	12	475	12	475	13	475	16	475	16	475	18	475	15
500	17	500	14	500	13	500	14	500	15	500	15	500	15	500	15
525	22	525	15	525	15	525	15	525	15	525	15	525	14	525	16
550	27	550	18	550	17	550	17	550	17	550	16	550	15	550	18
575	35	575	22	575	21	575	19	575	19	575	17	575	17	575	20
600	47	600	27	600	26	600	21	600	21	600	19	600	20	600	23
625	63	625	34	625	32	625	24	625	24	625	21	625	23	625	25
650	84	650	42	650	39	650	28	650	25	650	24	650	26	650	28
675	109	675	53	675	48	675	35	675	28	675	28	675	30	675	31
680	114	700	66	700	59	700	43	700	31	700	32	700	34	700	35
		725	83	725	71	725	52	725	36	725	39	725	39	725	39
		730	87	750	87	750	63	750	41	750	46	750	44	750	45
				775	106	775	76	775	47	775	56	775	47	775	49
				780	110	800	92	800	53	800	68	800	46	800	48
						825	111	825	60	825	81	825	46	825	46
						840	125	850	69	850	98	850	53	850	49
								875	79	875	117	875	66	875	61
								890	87	900	140	900	84	900	80
										910	150	925	106	925	102
												930	110	950	125

Table 233. Mathematics Scale Scores and Associated Standard Errors

MA 3		MA 4		MA 5		MA 6		MA 7		MA 8		MA 9		MA 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	87														
175	74	180	63												
200	64	200	54	220	64										
225	55	225	45	225	62	240	76								
250	48	250	38	250	53	250	72								
275	41	275	32	275	44	275	61	280	106						
300	35	300	29	300	37	300	51	300	91	310	80				
325	31	325	26	325	31	325	42	325	75	325	72	340	90		
350	27	350	23	350	26	350	35	350	62	350	60	350	83	370	84
375	24	375	21	375	22	375	29	375	50	375	51	375	68	375	81
400	21	400	18	400	19	400	24	400	41	400	43	400	55	400	67
425	20	425	16	425	17	425	21	425	33	425	36	425	45	425	55
450	20	450	14	450	15	450	18	450	27	450	30	450	37	450	45
475	21	475	14	475	14	475	16	475	23	475	25	475	31	475	38
500	22	500	14	500	14	500	15	500	19	500	21	500	27	500	32
525	24	525	15	525	14	525	14	525	17	525	18	525	23	525	26
550	27	550	16	550	15	550	14	550	15	550	15	550	19	550	22
575	31	575	19	575	16	575	14	575	14	575	13	575	16	575	18
600	37	600	22	600	18	600	14	600	14	600	12	600	14	600	15
625	43	625	27	625	21	625	15	625	14	625	12	625	12	625	12
650	50	650	33	650	25	650	17	650	14	650	13	650	11	650	11
675	58	675	40	675	30	675	21	675	15	675	14	675	10	675	10
700	67	700	48	700	37	700	27	700	18	700	16	700	11	700	10
		725	56	725	45	725	35	725	21	725	19	725	15	725	13
		750	65	750	55	750	45	750	25	750	25	750	20	750	16
		775	75	775	67	775	56	775	32	775	32	775	26	775	20
		780	77	800	81	800	70	800	39	800	41	800	35	800	27
						825	87	825	49	825	52	825	45	825	36
						830	91	850	59	850	65	850	58	850	48
								860	64	875	80	875	72	875	62
										890	90	900	89	900	79
												920	103	925	100
														950	124

Table 234. Science Scale Scores and Associated Standard Errors

SC 5		SC 8		SC 10	
SS	SE	SS	SE	SS	SE
300	47	300	58	300	64
325	39	325	46	325	50
350	33	350	37	350	38
375	27	375	30	375	30
400	23	400	24	400	24
425	19	425	20	425	20
450	17	450	16	450	17
475	16	475	14	475	15
500	15	500	13	500	14
525	14	525	12	525	13
550	14	550	12	550	13
575	15	575	13	575	13
600	16	600	15	600	14
625	18	625	16	625	16
650	21	650	19	650	19
675	25	675	22	675	23
700	31	700	26	700	27
725	38	725	32	725	32
750	48	750	37	750	38
775	60	775	44	775	44
800	74	800	52	800	52
825	91	825	62	825	60
850	111	850	75	850	69
875	134	875	90	875	79
900	159	900	108	900	89

Table 235. Spanish Reading and Writing Scale Scores and Associated Standard Errors

SP RD 3		SP RD 4		SP WR 3		SP WR 4	
SS	SE	SS	SE	SS	SE	SS	SE
				250	64		
				275	50		
300	128	300	101	300	39	300	62
325	103	325	80	325	30	325	47
350	78	350	62	350	24	350	36
375	56	375	48	375	20	375	28
400	39	400	35	400	18	400	22
425	26	425	25	425	17	425	19
450	17	450	18	450	17	450	17
475	13	475	13	475	17	475	15
500	12	500	10	500	18	500	13
525	12	525	9	525	20	525	11
550	14	550	9	550	22	550	11
575	16	575	10	575	24	575	12
600	19	600	12	600	26	600	15
625	24	625	15	625	29	625	20
650	32	650	22	650	33	650	26
675	42	675	30	675	40	675	32
700	55	700	38	700	50	700	41
725	69	725	48	725	64	725	51
740	79	750	58	750	81	750	63
		775	69			775	78
		790	76			790	88

Table 236. Cut Scores for the 2013 TCAP Tests

Content Area	Grade	Unsatisfactory	Partially Proficient	Proficient	Advanced
Reading	3	150-465	466-525	526-655	656-795
	4	180-516	517-571	572-670	671-940
	5	220-537	538-587	588-690	691-955
	6	260-542	543-599	600-695	696-970
	7	300-566	567-619	620-715	716-980
	8	330-577	578-631	632-723	724-990
	9	350-584	585-641	642-738	739-995
	10	370-606	607-662	663-746	747-999
Writing	3	150-392	393-464	465-532	533-680
	4	190-413	414-484	485-553	554-730
	5	220-417	418-497	498-575	576-780
	6	230-422	423-512	513-599	600-840
	7	240-429	430-538	539-628	629-890
	8	250-433	434-555	556-650	651-910
	9	260-435	436-562	563-671	672-930
	10	270-458	459-577	578-689	690-950
Mathematics	3	150-334	335-418	419-509	510-700
	4	180-382	383-454	455-537	538-780
	5	220-421	422-493	494-561	562-800
	6	240-453	454-519	520-588	589-830
	7	280-486	487-558	559-613	614-860
	8	310-520	521-576	577-627	628-890
	9	340-547	548-601	602-651	652-920
	10	370-561	562-626	627-691	692-950
Science	5	300-428	429-507	508-568	569-900
	8	300-458	459-506	507-578	579-900
	10	300-468	469-506	507-580	581-900
Reading Spanish	3	300-481	482-512	513-575	576-740
	4	300-505	506-536	537-591	592-790
Writing Spanish	3	250-447	448-498	499-574	575-750
	4	300-495	496-531	532-595	596-790

Table 237. Alignment Summary, Reading and Writing

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	40	7	5	71%
	2	21	5	2	40%
	3	32	5	5	100%
4	1	28	8	6	75%
	2	21	5	4	80%
	3	32	5	5	100%
	4	13	5	4	80%
	5	14	6	4	67%
	6	15	4	3	75%
5	1	25	7	6	86%
	2	21	7	7	100%
	3	32	5	5	100%
	4	15	5	4	80%
	5	16	7	6	86%
	6	12	4	4	100%
6	1	25	7	7	100%
	2	21	7	6	86%
	3	32	5	5	100%
	4	17	5	4	80%
	5	15	7	5	71%
	6	12	4	3	75%
7	1	22	9	7	78%
	2	21	8	7	88%
	3	32	6	5	83%
	4	16	5	4	80%
	5	17	7	4	57%
	6	14	4	4	100%
8	1	22	7	5	71%
	2	21	7	5	71%
	3	32	6	5	83%
	4	16	5	5	100%
	5	16	6	6	100%
	6	15	4	4	100%
9	1	25	7	6	86%
	2	20	8	5	63%
	3	32	6	4	67%
	4	11	5	5	100%
	5	19	6	6	100%
	6	13	5	5	100%

Table 237. Alignment Summary, Reading and Writing (cont'd)

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
10	1	24	7	6	86%
	2	21	8	5	63%
	3	32	5	5	100%
	4	15	6	5	83%
	5	17	6	5	83%
	6	11	4	2	50%

Table 238. Alignment Summary, Mathematics

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	8	13	8	62%
	2/3	11	10	5	50%
	4/5	14	15	9	60%
	6	7	9	5	56%
4	1	14	11	9	82%
	2	9	6	5	83%
	3	11	6	3	50%
	4/5	21	15	12	80%
	6	14	10	8	80%
5	1	16	13	9	69%
	2	12	7	5	71%
	3	10	15	4	27%
	4/5	14	22	10	45%
	6	16	12	6	50%
6	1	12	8	8	100%
	2	10	6	5	83%
	3	11	9	6	67%
	4/5	16	17	11	65%
	6	11	8	6	75%
7	1/6	19	18	11	61%
	2	12	5	4	80%
	3	12	9	8	89%
	4/5	17	14	11	79%
8	1/6	15	10	7	70%
	2	15	6	6	100%
	3	12	9	7	78%
	4/5	15	11	10	91%
9	1/6	13	9	7	78%
	2	16	12	10	83%
	3	15	14	11	79%
	4/5	15	9	6	67%
10	1/6	14	10	7	70%
	2	18	14	10	71%
	3	14	22	11	50%
	4/5	14	17	10	59%

Table 239. Alignment Summary, Science

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
5	1/5	28	11	10	91%
	2	15	16	10	63%
	3	16	13	11	85%
	4	16	13	10	77%
8	1/5	33	22	14	64%
	2	18	27	13	48%
	3	15	24	10	42%
	4	17	24	14	58%
10	1/5	31	24	17	71%
	2	17	14	12	86%
	3	14	28	11	39%
	4	17	19	11	58%

Table 240. Alignment Summary, Spanish Reading and Writing

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	40	7	5	71%
	2	21	4	1	25%
	3	32	5	5	100%
4	1	31	8	6	75%
	2	19	5	4	80%
	3	34	5	4	80%
	4	14	5	5	100%
	5	13	6	3	50%
	6	12	4	3	75%

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Table 241. Items Flagged for DIF by Ethnicity Focal Group

Content Area	Grade	Item #	Item Type	Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
R E A D I N G	4	9	MC													*	143	-0.106			
	4	26	CR				+	2092	0.108												
	4	28	CR				+	2092	0.122												
	4	42	CR										+	21162	0.101						
	4	45	CR													+	143	0.192			
	4	101	MC													*	143	-0.106			
	6	29	CR				+	1956	0.114												
	6	49	CR				+	1956	0.151												
	8	26	CR				+	1839	0.141												
	8	30	CR				+	1839	0.102												
	8	45	CR				+	1839	0.147												
	8	48	CR				+	1839	0.130												
	9	23	CR				+	1911	0.175												
	9	26	CR				+	1911	0.180												
	9	41	CR							+	3057	0.104									
	9	42	MC													+	147	0.138			
	10	31	CR	*	457	-0.130	+	1876	0.122												
	10	35	CR				+	1876	0.106												
	10	38	CR				+	1876	0.104												
	10	49	CR				+	1876	0.126												

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 241. Items Flagged for DIF by Ethnicity Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
W R I T I N G	3	35	MC													+	132	0.116			
	3	38	MC													*	132	-0.125			
	4	65	MC				*	2081	-0.123												
	4	77	CR										+	21143	0.103						
	4	78	MC				*	2081	-0.102												
	5	93	CR	+	458	0.104															
	6	71	CR													+	128	0.160			
	6	83	MC													*	128	-0.122			
	7	3A	CR							+	2961	0.109									
	7	53	MC				*	1943	-0.128							*	118	-0.100			
	7	86	MC													*	118	-0.120			
	7	94	CR				+	1943	0.129												
	8	96	CR				+	1834	0.100												
	9	2D	CR				+	1910	0.110												
	9	2E	CR				*	1910	-0.109												
	9	3A	CR													+	147	0.139			
	9	3B	CR													+	147	0.153			

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 241. Items Flagged for DIF by Ethnicity Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
M A T H E M A T I C S	3	11	CR							+	2844	0.115									
	5	18	CR	*	459	-0.163	*	2132	-0.109												
	5	46	CR							*	2877	-0.111									
	6	4	CR							+	2908	0.109									
	6	40	CR							*	2908	-0.103									
	7	3	CR							+	2978	0.107				+	119	0.121			
	7	16	MC													*	119	-0.114			
	7	40	CR	*	507	-0.125															
	8	14	CR				*	1838	-0.111												
	8	24	CR				*	1838	-0.121												
	8	28	CR							*	3033	-0.101				*	162	-0.182			
	8	44	CR				*	1838	-0.109												
	8	47	CR				*	1838	-0.117												
	8	59	MC													*	162	-0.111			
	9	18	MC													+	148	0.117			
	9	20	CR				*	1918	-0.103												
	9	41	MC													+	148	0.113			
	9	60	CR				+	1918	0.199	+	3082	0.135									
	10	2	CR				*	1882	-0.126												
	10	5	MC													+	146	0.115			
	10	20	CR				*	1882	-0.144												
	10	32	CR				*	1882	-0.185												
	10	43	CR				+	1882	0.111												
	10	53	CR				+	1882	0.134												

Table 241. Items Flagged for DIF by Ethnicity Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
S C I E N C E	5	55	MC													*	122	-0.124			
	5	73	CR				+	2136	0.103												
	5	75	CR							+	2873	0.151									
	8	22	CR				+	1837	0.197				+	19162	0.107						
	10	22	CR				+	1873	0.184				+	17026	0.153						
	10	23	CR							+	2715	0.118									
	10	34	CR				*	1873	-0.173												
	10	72	CR				+	1873	0.130												

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 242. Items Flagged for DIF by Gender Focal Group

Content Area	Grade	Item #	Item Type	Gender Focal Group[1]					
				Female			Male		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	9	41	CR				*	30849	-0.102
Writing	4	77	CR	+	31578	0.120	*	32560	-0.124
	5	74	CR	+	30768	0.116	*	32184	-0.123
	6	71	CR				*	31730	-0.103
	7	3A	CR				*	31752	-0.106
	7	3B	CR				*	31752	-0.105
	7	74	CR	+	30196	0.131	*	31752	-0.130
	8	72	CR	+	29644	0.108	*	30905	-0.114
	8	96	CR	+	29644	0.125	*	30905	-0.129
	9	76	CR	+	29782	0.107	*	30877	-0.117
	9	96	CR	+	29782	0.105	*	30877	-0.116
Mathematics	7	60	CR	+	30246	0.121	*	31827	-0.115
Science	8	22	CR	+	29667	0.123			

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 243. Items Flagged for DIF by Accommodations Focal Group

Content Area	Grade	Item #	Item Type	Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	3	13	CR													*	161	-0.195
	3	15	MC													+	161	0.168
	3	23	CR													*	161	-0.162
	3	32	CR													*	161	-0.150
	4	11	MC													+	181	0.108
	4	27	MC													+	181	0.103
	4	35	CR										*	2782	-0.111	*	181	-0.190
	4	42	CR													*	181	-0.252
	4	45	CR													*	181	-0.251
	4	51	CR													*	181	-0.131
	4	103	CR													+	181	0.108
	5	4	MC							*	60	-0.170						
	5	29	CR													*	240	-0.137
	5	32	MC													+	240	0.130
	5	94	MC							*	60	-0.170						
	6	18	MC													+	210	0.118
	6	27	CR													*	210	-0.116
	6	28	MC							+	51	0.149						
	6	49	CR													*	210	-0.121
	6	112	MC													+	210	0.118
	7	5	MC							*	68	-0.122						
	7	7	MC													+	225	0.115
	7	24	CR													*	225	-0.120
	7	96	MC							*	68	-0.122						
	7	98	MC													+	225	0.115
	7	115	CR													*	225	-0.120
	8	19	CR													*	177	-0.202

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Extended Timing Flag	N	Obs-Prd	Oral Script Flag	N	Obs-Prd	Scribe Flag	N	Obs-Prd	Teacher Read Directions Flag	N	Obs-Prd	Other[2] Flag	N	Obs-Prd
	8	26	CR	+	5433	0.162												
	8	29	MC													+	177	0.111
	8	30	CR	+	5433	0.116												
	8	112	MC													*	177	-0.202
	9	17	CR										*	434	-0.113			
	9	20	MC													+	127	0.105
	9	22	MC													+	127	0.120
	9	26	CR													*	127	-0.211
	9	30	CR													*	127	-0.260
Reading	9	41	CR													*	127	-0.141
	9	110	MC										*	434	-0.113			
	9	113	MC													+	127	0.105
	9	115	CR													+	127	0.120
	10	19	MC													+	141	0.128
	10	27	CR										*	355	-0.188			
	10	30	CR										*	355	-0.110			
	10	49	CR	+	2542	0.100												
	10	51	CR	+	2542	0.102												
	10	111	MC													+	141	0.128

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Extended Timing Flag	N	Obs-Prd	Oral Script Flag	N	Obs-Prd	Scribe Flag	N	Obs-Prd	Teacher Read Directions Flag	N	Obs-Prd	Other[2] Flag	N	Obs-Prd
Writing	3	21	MC				+	7006	0.112									
	3	23	MC				+	7006	0.104									
	3	32	MC				+	7006	0.130									
	3	38	MC				+	7006	0.102									
	4	2E	CR													*	219	-0.127
	4	3B	CR				*	6771	-0.118									
	4	56	MC							+	52	0.208						
	4	73	MC				+	6771	0.110									
	4	74	MC				+	6771	0.122									
	4	80	MC				+	6771	0.112									
	4	81	MC				+	6771	0.104									
	4	95	CR				+	6771	0.117									
	5	2F	CR				*	6020	-0.104									
	5	3B	CR				*	6020	-0.105									
	5	58	MC													+	309	0.189
	5	61	MC													+	309	0.133
	5	65	MC				+	6020	0.113									
	5	68	MC				+	6020	0.118									
	5	81	MC				+	6020	0.150							+	309	0.104
	5	84	MC										+	560	0.102			
	5	91	MC				+	6020	0.103									
	5	92	MC				+	6020	0.125									
	5	93	CR				+	6020	0.150				+	560	0.123			
	6	2B	CR				*	4153	-0.108									
	6	2C	CR				*	4153	-0.114									
	6	3B	CR				*	4153	-0.111							*	349	-0.132
	6	85	MC				+	4153	0.163									

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Extended Timing Flag	Extended Timing N	Extended Timing Obs-Prd	Oral Script Flag	Oral Script N	Oral Script Obs-Prd	Scribe Flag	Scribe N	Scribe Obs-Prd	Teacher Read Directions Flag	Teacher Read Directions N	Teacher Read Directions Obs-Prd	Other[2] Flag	Other[2] N	Other[2] Obs-Prd
	6	93	MC				+	4153	0.122									
	6	95	MC				+	4153	0.121									
	6	97	CR	+	4412	0.123							+	518	0.152			
	7	2A	CR				*	2985	-0.115									
	7	2E	CR													*	370	-0.125
	7	2F	CR				*	2985	-0.108									
	7	3A	CR				+	2985	0.101									
	7	3B	CR				*	2985	-0.158									
	7	54	MC													*	370	-0.105
	7	74	CR	+	3557	0.110												
	7	84	MC				+	2985	0.111									
	7	93	MC				+	2985	0.115									
	7	94	CR	+	3557	0.106	+	2985	0.131									
Writing	8	2D	CR				*	2565	-0.107									
	8	56	MC													+	316	0.103
	8	72	CR	+	3453	0.108												
	8	96	CR	+	3453	0.225	+	2565	0.119									
	9	2C	CR				*	1389	-0.114									
	9	2E	CR				*	1389	-0.107									
	9	56	MC													*	485	-0.125
	9	82	MC				+	1389	0.108									
	9	93	MC				+	1389	0.106									
	9	95	MC				+	1389	0.105									
	10	2A	CR				*	892	-0.116									
	10	2B	CR													*	458	-0.107
	10	2C	CR													*	458	-0.127
	10	2F	CR				*	892	-0.104							*	458	-0.221

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	10	3A	CR				*	892	-0.111									
	10	3B	CR				*	892	-0.159									
	10	56	MC										*	175	-0.156			
	10	59	MC				*	892	-0.144									
	10	71	CR	+	1755	0.121										+	458	0.161
	10	72	MC													*	458	-0.106
	10	76	MC				+	892	0.106									
	10	80	MC				+	892	0.116									
	10	84	MC													+	458	0.122
	10	91	MC				+	892	0.141									
	10	95	CR	+	1755	0.105							+	175	0.276	+	458	0.126

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Extended Timing Flag	N	Obs-Prd	Oral Script Flag	N	Obs-Prd	Scribe Flag	N	Obs-Prd	Teacher Read Directions Flag	N	Obs-Prd	Other[2] Flag	N	Obs-Prd
Mathematics	4	20	CR										*	667	-0.141	*	343	-0.159
	4	46	CR				*	7153	-0.145									
	4	55	CR										*	667	-0.163	*	343	-0.112
	5	18	CR				*	6337	-0.111							*	295	-0.139
	5	30	CR													*	295	-0.124
	5	35	MC							+	50	0.156						
	5	64	CR										*	649	-0.102	*	295	-0.167
	6	16	CR													*	333	-0.169
	6	24	CR													*	333	-0.127
	6	37	CR													*	333	-0.156
	6	47	CR				*	4184	-0.119									
	7	3	CR													+	294	0.152
	7	20	CR				+	3084	0.104									
	7	35	CR													*	294	-0.137
	7	48	MC													+	294	0.103
	7	50	CR													*	294	-0.126
	7	60	CR													*	294	-0.167
	8	10	CR													*	260	-0.144
	8	44	CR													+	260	0.161
	8	47	CR													*	260	-0.192
	9	16	MC													+	420	0.103
	9	20	CR										*	280	-0.190	*	420	-0.195
	10	6	MC				*	967	-0.105									
	10	20	CR													*	372	-0.266
	10	27	CR													*	372	-0.112
	10	32	CR										*	188	-0.130	*	372	-0.105
	10	38	MC				+	967	0.122									

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 243. Items Flagged for DIF by Accommodations Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Extended Timing Flag	N	Obs-Prd	Oral Script Flag	N	Obs-Prd	Scribe Flag	N	Obs-Prd	Teacher Read Directions Flag	N	Obs-Prd	Other[2] Flag	N	Obs-Prd
Science	5	17	MC													+	240	0.105
	5	64	CR													*	240	-0.130
	5	73	CR													*	240	-0.118
	5	74	MC													+	240	0.125
	5	75	CR				*	6204	-0.138									
	8	52	MC													*	243	-0.102
	8	59	MC													+	243	0.176
	10	2	MC				+	960	0.104									
	10	22	CR				*	960	-0.175				*	209	-0.223			
	10	34	CR										+	209	0.138			
	10	45	MC													+	390	0.132
	10	54	MC													+	390	0.166
	10	56	MC										*	209	-0.122	*	390	-0.109
	10	70	MC										*	209	-0.105			
	10	75	CR													*	390	-0.191

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

Table 244. Items Flagged for DIF by Primary Disability State

| | | | | Primary Disability State Focal Group[1] | | | | | | | | | | | | | | |
| | | | | Emotional | | | Specific Learning Disability | | | Physical | | | Speech/Language | | | Other[2] | | |
Content Area	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	3	4	CR													*	440	-0.101
	3	13	CR	*	357	-0.268				*	730	-0.136				*	440	-0.193
	3	15	MC	+	357	0.122												
	3	16	CR	*	357	-0.237										*	440	-0.114
	3	20	CR	*	357	-0.113												
	3	23	CR													*	440	-0.138
	3	30	CR	*	357	-0.148												
	3	32	CR	*	357	-0.192				*	730	-0.104				*	440	-0.164
	4	12	MC	+	426	0.142												
	4	21	CR	*	426	-0.117												
	4	26	CR	*	426	-0.162				*	782	-0.125						
	4	28	CR	*	426	-0.222				*	782	-0.101						
	4	35	CR	*	426	-0.278				*	782	-0.166				*	514	-0.274
Reading	4	42	CR	*	426	-0.344				*	782	-0.186				*	514	-0.194
	4	45	CR	*	426	-0.288				*	782	-0.162				*	514	-0.182
	4	51	CR	*	426	-0.137										*	514	-0.102
	4	104	CR	+	426	0.142												
	4	113	MC	*	426	-0.117												
	5	5	CR	*	465	-0.129												
	5	12	CR	*	465	-0.116										*	506	-0.105
	5	18	CR	*	465	-0.103												
	5	29	CR	*	465	-0.163												
	5	33	CR	*	465	-0.149												
	5	40	CR													*	506	-0.129
	5	95	MC	*	465	-0.129												
	5	102	MC	*	465	-0.116										*	506	-0.105
	5	108	MC	*	465	-0.103												

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. Items Flagged for DIF by Primary Disability State (cont'd)

Content Area	Grade	Item #	Item Type	Emotional			Specific Learning Disability			Physical			Speech/Language			Other[2]		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	6	8	CR													*	463	-0.107
	6	12	CR	*	507	-0.135				*	791	-0.135				*	463	-0.148
	6	21	CR	*	507	-0.125										*	463	-0.109
	6	29	CR	*	507	-0.143												
	6	45	CR	*	507	-0.100												
	6	49	CR	*	507	-0.132												
	6	55	MC	*	507	-0.103												
	6	102	CR													*	463	-0.107
	6	106	MC	*	507	-0.135				*	791	-0.135				*	463	-0.148
	6	115	MC	*	507	-0.125										*	463	-0.109
	7	24	CR	*	513	-0.104												
	7	45	CR	*	513	-0.214				*	796	-0.159				*	460	-0.158
	7	115	CR	*	513	-0.104												
Reading	8	4	CR	*	502	-0.130				*	753	-0.100				*	434	-0.123
	8	10	CR	*	502	-0.145				*	753	-0.123				*	434	-0.119
	8	15	MC	+	502	0.122												
	8	19	CR	*	502	-0.180				*	753	-0.111						
	8	20	CR	*	502	-0.114												
	8	26	CR										+	347	0.139			
	8	27	MC	+	502	0.108				+	753	0.139						
	8	30	CR	*	502	-0.107												
	8	45	CR							*	753	-0.116						
	8	48	CR	*	502	-0.237				*	753	-0.206	+	347	0.151			
	8	54	CR													*	434	-0.106
	8	97	MC	*	502	-0.130				*	753	-0.100				*	434	-0.123
	8	103	MC	*	502	-0.145				*	753	-0.123				*	434	-0.119
	8	108	MC	+	502	0.122												

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. Items Flagged for DIF by Primary Disability State (cont'd)

Content Area	Grade	Item #	Item Type	Emotional Flag	Emotional N	Emotional Obs-Prd	Specific Learning Disability Flag	Specific Learning Disability N	Specific Learning Disability Obs-Prd	Physical Flag	Physical N	Physical Obs-Prd	Speech/Language Flag	Speech/Language N	Speech/Language Obs-Prd	Other[2] Flag	Other[2] N	Other[2] Obs-Prd
Reading	8	112	MC	*	502	-0.180				*	753	-0.111						
	8	113	MC	*	502	-0.114												
	9	12	CR													*	448	-0.123
	9	17	CR	*	582	-0.136												
	9	26	CR	*	582	-0.138				*	824	-0.108						
	9	41	CR	*	582	-0.137				*	824	-0.119				*	448	-0.146
	9	105	CR													*	448	-0.123
	9	110	MC	*	582	-0.136												
	10	9	MC	+	509	0.122												
	10	12	CR	*	509	-0.152										*	392	-0.181
	10	27	CR				*	2768	-0.115							*	392	-0.106
	10	30	CR	*	509	-0.196												
	10	31	CR	*	509	-0.158												
	10	35	CR	*	509	-0.120												
	10	43	CR	*	509	-0.138				*	677	-0.132						
	10	51	CR	*	509	-0.123												
	10	101	MC	+	509	0.122												
	10	104	MC	*	509	-0.152										*	392	-0.181

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. Items Flagged for DIF by Primary Disability State (cont'd)

Content Area	Grade	Item #	Item Type	Emotional			Specific Learning Disability			Physical			Speech/Language			Other[2]		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	3	1A	CR	*	360	-0.104												
	3	2	MC	+	360	0.111												
	3	10A	CR	*	360	-0.128										*	445	-0.164
	3	10C	CR	*	360	-0.111												
	3	28C	CR	*	360	-0.140												
	3	32	MC	+	360	0.135	+	2551	0.130									
	3	33	MC	+	360	0.119												
	3	38	MC	+	360	0.101												
	3	39C	CR	*	360	-0.131												
	4	2A	CR				*	3323	-0.116									
	4	3A	CR	*	428	-0.170				*	777	-0.107						
	4	3B	CR	*	428	-0.198	*	3323	-0.116	*	777	-0.181				*	512	-0.162
	4	3C	CR				*	3323	-0.113	*	777	-0.101						
Writing	4	66	MC													*	512	-0.107
	4	67	MC	+	428	0.107												
	4	73	MC	+	428	0.105	+	3323	0.112									
	4	74	MC				+	3323	0.115									
	4	77	CR	*	428	-0.500				*	777	-0.244				*	512	-0.238
	4	78	MC	+	428	0.117												
	4	95	CR	*	428	-0.240	+	3323	0.101									
	5	2D	CR				*	3766	-0.114							+	502	0.110
	5	3A	CR													*	502	-0.140
	5	3B	CR	*	466	-0.101										*	502	-0.166
	5	54	MC													+	502	0.108
	5	74	CR	*	466	-0.344				*	788	-0.173				*	502	-0.259
	5	81	MC				+	3766	0.123	+	788	0.111				+	502	0.102
	5	89	MC							+	788	0.106				+	502	0.115

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. Items Flagged for DIF by Primary Disability State (cont'd)

Content Area	Grade	Item #	Item Type	Emotional			Specific Learning Disability			Physical			Speech/Language			Other[2]		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	5	92	MC				+	3766	0.101									
	5	93	CR	*	466	-0.228	+	3766	0.132							*	502	-0.135
	6	2B	CR				*	3839	-0.101									
	6	3A	CR	*	507	-0.161				*	795	-0.141				*	469	-0.221
	6	3B	CR	*	507	-0.175				*	795	-0.170				*	469	-0.259
	6	71	CR	*	507	-0.231				*	795	-0.168				*	469	-0.171
	6	81	MC													+	469	0.114
	6	85	MC	+	507	0.120	+	3839	0.104	+	795	0.125						
	6	97	CR	*	507	-0.209	+	3839	0.146									
	7	2A	CR				*	3487	-0.127									
	7	3A	CR	*	514	-0.145										*	462	-0.169
	7	3B	CR	*	514	-0.208	*	3487	-0.103	*	794	-0.179	*	444	-0.101	*	462	-0.243
	7	3C	CR													*	462	-0.110
Writing	7	71	MC													+	462	0.103
	7	74	CR	*	514	-0.307				*	794	-0.202				*	462	-0.268
	7	94	CR	*	514	-0.221	+	3487	0.128	*	794	-0.129						
	8	3A	CR	*	507	-0.154				*	760	-0.112				*	434	-0.218
	8	3B	CR	*	507	-0.182				*	760	-0.116				*	434	-0.185
	8	56	MC										*	345	-0.108			
	8	72	CR	*	507	-0.206				*	760	-0.164				*	434	-0.130
	8	96	CR	*	507	-0.261	+	3446	0.124							*	434	-0.131
	9	2C	CR				*	3150	-0.110									
	9	2E	CR										*	204	-0.131			
	9	3A	CR	*	591	-0.144				*	825	-0.144				*	450	-0.193
	9	3B	CR	*	591	-0.149				*	825	-0.134				*	450	-0.185
	9	74	MC										+	204	0.107			
	9	76	CR	*	591	-0.252				*	825	-0.127	+	204	0.134	*	450	-0.177

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. Items Flagged for DIF by Primary Disability State (cont'd)

Content Area	Grade	Item #	Item Type	Emotional			Specific Learning Disability			Physical			Speech/Language			Other[2]		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	9	91	MC										*	204	-0.104			
	9	96	CR	*	591	-0.207	+	3150	0.137	*	825	-0.136				*	450	-0.240
	10	2A	CR										*	165	-0.111			
	10	3A	CR	*	512	-0.207				*	676	-0.207				*	393	-0.275
	10	3B	CR	*	512	-0.215				*	676	-0.202				*	393	-0.276
	10	3C	CR													*	393	-0.102
	10	56	MC										*	165	-0.102			
	10	71	CR	*	512	-0.215	+	2771	0.137	*	676	-0.143				*	393	-0.105
	10	76	MC										+	165	0.127			
	10	89	MC													+	393	0.110
	10	95	CR	*	512	-0.169	+	2771	0.155							*	393	-0.145
Mathematics	4	20	CR										*	1374	-0.137	*	519	-0.129
	4	40	CR	+	430	0.113												
	4	46	CR				*	3336	-0.192									
	4	55	CR	*	430	-0.226				*	787	-0.100	*	1374	-0.105	*	519	-0.135
	4	64	CR													+	519	0.178
	5	18	CR										*	923	-0.150	*	510	-0.172
	5	43	CR							+	791	0.102						
	5	46	CR							+	791	0.109						
	5	64	CR	*	465	-0.103							*	923	-0.113	*	510	-0.115
	5	69	CR	*	465	-0.145												
	6	12	CR										+	672	0.112	+	465	0.187
	6	16	CR													*	465	-0.128
	6	25	MC							*	799	-0.104						
	6	28	CR	+	512	0.114												

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring
2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. Items Flagged for DIF by Primary Disability State (cont'd)

Content Area	Grade	Item #	Item Type	Emotional Flag	Emotional N	Emotional Obs-Prd	Specific Learning Disability Flag	SLD N	SLD Obs-Prd	Physical Flag	Physical N	Physical Obs-Prd	Speech/Language Flag	S/L N	S/L Obs-Prd	Other[2] Flag	Other N	Other Obs-Prd
Mathematics	6	35	MC	*	512	-0.112												
	6	47	CR				*	3845	-0.103				*	672	-0.127	*	465	-0.197
	6	60	CR													+	465	0.101
	7	16	MC													+	460	0.104
	7	50	CR	*	518	-0.105												
	7	60	CR	*	518	-0.155				*	796	-0.150				*	460	-0.144
	8	7	CR	*	504	-0.123				*	757	-0.113						
	8	40	CR	*	504	-0.117										*	432	-0.128
	8	47	CR													*	432	-0.106
	8	60	CR	*	504	-0.112							+	350	0.144			
	9	1	MC										+	201	0.105			
	9	20	CR	*	595	-0.158										*	450	-0.201
	9	60	CR	*	595	-0.134												
	10	6	MC										*	162	-0.105			
	10	20	CR													*	394	-0.198
	10	27	CR													*	394	-0.111
Science	5	25	CR	*	465	-0.111												
	5	64	CR	*	465	-0.101										*	511	-0.107
	5	73	CR	*	465	-0.124												
	5	75	CR	*	465	-0.134	*	3773	-0.153	*	793	-0.102						
	8	22	CR	*	502	-0.380				*	752	-0.223				*	437	-0.225
	8	43	CR													+	437	0.112
	8	59	MC													+	437	0.113
	8	75	CR							*	752	-0.104				*	437	-0.135
	10	22	CR	*	506	-0.455	*	2777	-0.134	*	680	-0.295				*	397	-0.300

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 244. Items Flagged for DIF by Primary Disability State (cont'd)

Content Area	Grade	Item #	Item Type	Emotional			Specific Learning Disability			Physical			Speech/Language			Other[2]		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	10	23	CR	*	506	-0.109												
	10	24	CR													*	397	-0.135
Science	10	34	CR				+	2777	0.100	+	680	0.160				+	397	0.134
	10	75	CR													*	397	-0.121
	10	79	MC													+	397	0.122

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

Table 245. Items Flagged for DIF by Enrollment Focal Group

Content Area	Grade	Item #	Item Type	Enrollment Focal Group[1]								
				Cont. Enroll. 1 Year in School			Cont. Enroll. 1 Year in District			Cont. Enroll. 3 Years in Colorado		
				No			No			No		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	7	3A	CR				*	8725	-0.114			
	8	96	CR							*	9197	-0.101
	9	96	CR							*	9401	-0.141
	10	71	CR							*	8719	-0.117
	10	95	CR							*	8719	-0.121
Science	8	22	CR				*	8424	-0.108			
	10	22	CR	*	11565	-0.121	*	8320	-0.152	*	8742	-0.173

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group[1]														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	3	13	CR	+	532	0.135												
	3	16	CR	+	532	0.238	+	10977	0.126				+	7934	0.162			
	3	20	CR	+	532	0.143	+	10977	0.106				+	7934	0.114			
	3	23	CR													+	1736	0.104
	3	30	CR	+	532	0.143	+	10977	0.103				+	7934	0.130			
	3	32	CR	+	532	0.124							+	7934	0.111			
	3	37	MC	*	532	-0.137	*	10977	-0.112	*	1802	-0.111	*	7934	-0.136			
	4	12	MC	*	950	-0.140												
	4	28	CR	+	950	0.157				+	3067	0.120	+	7713	0.103			
	4	35	CR	+	950	0.179	+	11648	0.107				+	7713	0.136			
	4	42	CR	+	950	0.183	+	11648	0.153	+	3067	0.158	+	7713	0.181			
	4	45	CR							+	3067	0.131	+	7713	0.113			
	4	104	CR	*	950	-0.140												
	5	5	CR							+	4100	0.109				*	1211	-0.127
	5	18	CR	+	704	0.100												
	5	21	MC	*	704	-0.129							*	7036	-0.101			
	5	29	CR	+	704	0.121												
	5	95	MC							+	4100	0.109				*	1211	-0.127
	5	108	MC	+	704	0.100												
	5	111	MC	*	704	-0.129							*	7036	-0.101			
	6	12	CR				+	11211	0.106	+	4611	0.134	+	6098	0.111			
	6	29	CR	+	397	0.170				+	4611	0.122						
	6	32	MC	*	397	-0.121												
	6	47	MC	*	397	-0.155	*	11211	-0.118	*	4611	-0.144	*	6098	-0.113			
	6	49	CR	+	397	0.122	+	11211	0.114	+	4611	0.146	+	6098	0.103			
	6	51	MC	*	397	-0.108				*	4611	-0.138						
	6	106	MC				+	11211	0.106	+	4611	0.134	+	6098	0.111			
	7	4	CR	+	346	0.133										+	870	0.130
	7	24	CR				+	11031	0.105	+	5182	0.169						
	7	35	CR													*	870	-0.128

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

| | | | | Language Proficiency Focal Group[1] | | | | | | | | | | | | | | |
| | | | | Bilingual | | | ESL | | | FEP | | | LEP | | | NEP | | |
Content Area	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	7	41	MC				*	11031	-0.111	*	5182	-0.123	*	5288	-0.102			
	7	45	CR	+	346	0.142							+	5288	0.136			
	7	95	MC	+	346	0.133										+	870	0.130
	7	115	CR				+	11031	0.105	+	5182	0.169						
	8	4	CR	+	306	0.109												
	8	10	CR	+	306	0.108	+	10186	0.106	+	5549	0.131	+	4231	0.102			
	8	14	MC													*	678	-0.111
	8	15	MC										*	4231	-0.120			
	8	18	MC													*	678	-0.111
	8	19	CR										+	4231	0.108	+	678	0.105
	8	26	CR										+	4231	0.114	+	678	0.189
	8	27	MC	*	306	-0.130	*	10186	-0.156	*	5549	-0.171	*	4231	-0.152			
	8	31	MC	*	306	-0.107	*	10186	-0.112				*	4231	-0.144			
	8	45	CR	+	306	0.116	+	10186	0.133	+	5549	0.144	+	4231	0.132			
	8	48	CR	+	306	0.167	+	10186	0.153	+	5549	0.154	+	4231	0.163	+	678	0.102
	8	97	MC	+	306	0.109												
	8	103	MC	+	306	0.108	+	10186	0.106	+	5549	0.131	+	4231	0.102			
	8	107	MC													*	678	-0.111
	8	108	MC										*	4231	-0.120			
	8	111	MC													*	678	-0.111
	8	112	MC										+	4231	0.108	+	678	0.105
	9	14	MC													*	679	-0.102
	9	23	CR										+	3552	0.123	+	679	0.238
	9	26	CR				+	10105	0.168	+	6036	0.141	+	3552	0.198	+	679	0.267
	9	30	CR										+	3552	0.101			
	9	34	MC	*	244	-0.100												
	9	41	CR				+	10105	0.133	+	6036	0.127	+	3552	0.141	+	679	0.128
	9	52	MC	+	244	0.114												
	9	107	MC													*	679	-0.102
	10	4	MC													*	625	-0.119

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	10	7	CR				+	9018	0.119	+	5559	0.122	+	3032	0.157			
	10	9	MC	*	242	-0.134												
	10	12	CR							+	5559	0.112				*	625	-0.109
	10	19	MC	*	242	-0.155												
	10	20	MC													*	625	-0.130
	10	27	CR										*	3032	-0.138	*	625	-0.305
	10	30	CR	+	242	0.231	+	9018	0.113	+	5559	0.166				*	625	-0.190
Reading	10	31	CR	+	242	0.269	+	9018	0.153	+	5559	0.155	+	3032	0.145	+	625	0.219
	10	44	MC													*	625	-0.119
	10	49	CR													+	625	0.168
	10	96	MC													*	625	-0.119
	10	99	MC				+	9018	0.119	+	5559	0.122	+	3032	0.157			
	10	101	MC	*	242	-0.134												
	10	104	MC							+	5559	0.112				*	625	-0.109
	10	111	MC	*	242	-0.155												
	10	112	MC													*	625	-0.130

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	3	2	MC	*	533	-0.258	*	10985	-0.186				*	7931	-0.201	*	1746	-0.256
	3	34	MC	*	533	-0.154												
	4	2C	CR	+	946	0.172				+	3065	0.108						
	4	2D	CR	*	946	-0.173												
	4	3A	CR	+	946	0.127										+	1754	0.111
	4	3B	CR	+	946	0.102												
	4	58	MC	*	946	-0.231	*	11629	-0.148				*	7702	-0.171	*	1754	-0.255
	4	75	MC	*	946	-0.131										*	1754	-0.143
	4	77	CR	+	946	0.235	+	11629	0.161	+	3065	0.103	+	7702	0.199	+	1754	0.138
	4	95	CR	+	946	0.220							+	7702	0.130	+	1754	0.194
	5	2C	CR													*	1205	-0.137
	5	2E	CR													*	1205	-0.171
	5	2F	CR													*	1205	-0.126
Writing	5	71	MC													+	1205	0.117
	5	74	CR	+	702	0.181	+	11603	0.113				+	6986	0.169			
	5	86	MC													*	1205	-0.136
	5	87	MC	*	702	-0.115	*	11603	-0.114	*	4074	-0.101	*	6986	-0.118	*	1205	-0.141
	5	93	CR	+	702	0.173							+	6986	0.115	+	1205	0.212
	6	2B	CR													*	895	-0.109
	6	59	MC							*	4708	-0.140						
	6	68	MC	*	399	-0.101												
	6	71	CR	+	399	0.229	+	11403	0.105				+	6177	0.140	+	895	0.111
	6	97	CR	+	399	0.176							+	6177	0.155	+	895	0.144
	7	2C	CR							*	5174	-0.121						
	7	2E	CR													*	874	-0.194
	7	3A	CR				+	11027	0.111				+	5290	0.154			
	7	3B	CR													*	874	-0.113
	7	53	MC													*	874	-0.153

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Bilingual Flag	Bilingual N	Bilingual Obs-Prd	ESL Flag	ESL N	ESL Obs-Prd	FEP Flag	FEP N	FEP Obs-Prd	LEP Flag	LEP N	LEP Obs-Prd	NEP Flag	NEP N	NEP Obs-Prd
				Language Proficiency Focal Group[1]														
Writing	7	54	MC													*	874	-0.134
	7	55	MC							*	5174	-0.183						
	7	73	MC	*	348	-0.108	*	11027	-0.101				*	5290	-0.141			
	7	74	CR	+	348	0.127	+	11027	0.152	+	5174	0.117	+	5290	0.202			
	7	84	MC													+	874	0.123
	7	85	MC	*	348	-0.122	*	11027	-0.136	*	5174	-0.103	*	5290	-0.172	*	874	-0.112
	7	92	MC	*	348	-0.166	*	11027	-0.147				*	5290	-0.208	*	874	-0.164
	7	93	MC													+	874	0.102
	7	94	CR	+	348	0.177	+	11027	0.141				+	5290	0.191	+	874	0.299
	8	2B	CR	*	309	-0.124												
	8	2D	CR	*	309	-0.107												
	8	2E	CR	+	309	0.132												
	8	3A	CR										+	4229	0.118			
	8	55	MC				*	10178	-0.114				*	4229	-0.127	*	678	-0.166
	8	56	MC										*	4229	-0.116			
	8	59	MC													*	678	-0.155
	8	72	CR										+	4229	0.129			
	8	84	MC	*	309	-0.108	*	10178	-0.124	*	5544	-0.131	*	4229	-0.135			
	8	91	MC				*	10178	-0.103				*	4229	-0.140			
	8	95	MC													+	678	0.115
	8	96	CR				+	10178	0.115				+	4229	0.170			
	9	56	MC	*	244	-0.173	*	10106	-0.141				*	3553	-0.211	*	676	-0.224
	9	63	MC										*	3553	-0.108			
	9	72	MC													+	676	0.102
	9	76	CR										+	3553	0.119			
	9	91	MC				*	10106	-0.109				*	3553	-0.145			
	9	96	CR				+	10106	0.107				+	3553	0.157			
	10	2A	CR	*	241	-0.120							*	3037	-0.119	*	625	-0.112
	10	2B	CR										*	3037	-0.108	*	625	-0.156

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	10	2C	CR													*	625	-0.173
	10	2D	CR	*	241	-0.117							*	3037	-0.117			
	10	2E	CR	+	241	0.110												
	10	2F	CR													*	625	-0.305
	10	3A	CR				+	9025	0.109	+	5560	0.122	+	3037	0.113			
	10	3B	CR							+	5560	0.117						
	10	61	MC				*	9025	-0.132	*	5560	-0.116	*	3037	-0.173			
	10	62	MC													+	625	0.126
	10	63	MC										*	3037	-0.106			
Writing	10	71	CR	+	241	0.146	+	9025	0.172	+	5560	0.125	+	3037	0.273	+	625	0.108
	10	72	MC										*	3037	-0.127			
	10	73	MC	*	241	-0.130				*	5560	-0.101						
	10	76	MC													+	625	0.113
	10	80	MC													+	625	0.105
	10	84	MC													+	625	0.171
	10	85	MC													+	625	0.102
	10	88	MC	*	241	-0.140	*	9025	-0.118				*	3037	-0.179			
	10	91	MC													+	625	0.117
	10	95	CR	+	241	0.167							+	3037	0.142			

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	3	11	CR							+	1841	0.174						
	3	15	MC	*	1404	-0.103												
	3	30	CR	*	1404	-0.122												
	3	33	MC	*	1404	-0.120	*	11300	-0.108				*	8740	-0.128			
	4	11	CR													+	1872	0.102
	4	20	CR													*	1872	-0.208
	4	46	CR													*	1872	-0.142
	4	48	MC	*	993	-0.133										*	1872	-0.111
	4	55	CR	+	993	0.127				+	3065	0.131						
	4	69	CR	+	993	0.231	+	11723	0.105	+	3065	0.113	+	7731	0.124			
	5	18	CR										*	7058	-0.101	*	1226	-0.300
	5	53	MC													+	1226	0.203
	5	64	CR													*	1226	-0.119
	6	16	CR	*	398	-0.178							*	6175	-0.104	*	900	-0.221
	6	24	CR	*	398	-0.142							*	6175	-0.143	*	900	-0.212
	6	29	MC													+	900	0.115
	6	30	CR	+	398	0.179												
	6	44	MC										*	6175	-0.106			
	6	46	MC	+	398	0.161												
	6	47	CR	+	398	0.114												
	6	51	CR													+	900	0.137
	6	53	MC													+	900	0.174
	6	56	CR	+	398	0.181												
	6	60	CR													*	900	-0.121
	7	3	CR													+	884	0.134
	7	15	MC													+	884	0.114
	7	20	CR							*	5185	-0.136						
	7	22	MC													*	884	-0.105
	7	26	CR													+	884	0.135
	7	43	CR	+	345	0.110												

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	7	50	CR													*	884	-0.180
	7	60	CR	*	345	-0.160										*	884	-0.143
	8	5	MC													+	681	0.116
	8	7	CR													*	681	-0.147
	8	10	CR													*	681	-0.113
	8	14	CR	+	305	0.191												
	8	20	CR	*	305	-0.110							*	4238	-0.108			
	8	27	MC	+	305	0.127												
	8	32	CR													+	681	0.127
	8	47	CR				*	10191	-0.118				*	4238	-0.186	*	681	-0.305
	8	60	CR	+	305	0.139	+	10191	0.104				+	4238	0.124			
	9	16	MC													+	689	0.115
	9	20	CR	+	206	0.309										*	689	-0.267
	9	21	MC	+	206	0.168												
	9	27	MC													*	689	-0.131
	9	39	MC													*	689	-0.121
	9	41	MC													+	689	0.107
	9	44	CR													*	689	-0.114
	9	51	CR													*	689	-0.127
	9	60	CR				+	10092	0.183	+	6034	0.192	+	3563	0.173			
	10	20	CR													*	641	-0.296
	10	21	MC													*	641	-0.113
	10	27	CR													*	641	-0.141
	10	38	MC													+	641	0.112

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 246. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)

Content Area	Grade	Item #	Item Type	Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	5	45	CR							+	4105	0.105						
	5	68	CR	+	724	0.197				+	4105	0.120						
	5	75	CR	+	724	0.106				+	4105	0.110						
	8	8	MC	+	308	0.159										+	679	0.111
	8	19	CR	*	308	-0.196												
	8	22	CR				+	10198	0.199	+	5556	0.149	+	4231	0.250	+	679	0.243
	8	42	MC													*	679	-0.119
	8	43	CR	+	308	0.177												
	8	48	CR	*	308	-0.102							*	4231	-0.107	*	679	-0.139
	10	22	CR	+	242	0.224	+	9036	0.282	+	5561	0.271	+	3040	0.322	+	634	0.198
	10	34	CR				*	9036	-0.130	*	5561	-0.153						
	10	43	CR	+	242	0.122												
	10	45	MC													+	634	0.142
	10	54	MC													+	634	0.139
	10	56	MC													*	634	-0.151
	10	75	CR													*	634	-0.182

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 247. Items Flagged for DIF by Education Plan Focal Group

Content Area	Grade	Item #	Item Type	504 Flag	504 N	504 Obs-Prd	GATE Flag	GATE N	GATE Obs-Prd	IEP Flag	IEP N	IEP Obs-Prd	Title 1 Flag	Title 1 N	Title 1 Obs-Prd
Reading	3	4	CR				*	733	-0.129						
	3	13	CR	*	534	-0.116									
	3	23	CR	*	534	-0.126									
	3	32	CR	*	534	-0.105	*	733	-0.126						
	4	19	CR				+	1189	0.120						
	4	21	CR	*	637	-0.102									
	4	28	CR	*	637	-0.105									
	4	35	CR	*	637	-0.145	*	1189	-0.119	*	6404	-0.111			
	4	42	CR	*	637	-0.210	*	1189	-0.187	*	6404	-0.114			
	4	45	CR	*	637	-0.132	*	1189	-0.134	*	6404	-0.102			
	4	51	CR				*	1189	-0.111						
	4	111	MC				+	1189	0.120						
	4	113	MC	*	637	-0.102									
	5	5	CR				*	1260	-0.109						
	5	40	CR				*	1260	-0.123						
	5	95	MC				*	1260	-0.109						
	6	8	CR				*	1332	-0.111						
	6	12	CR	*	912	-0.152									
	6	102	CR				*	1332	-0.111						
	6	106	MC	*	912	-0.152									
	7	4	CR	*	994	-0.104									
	7	12	CR	*	994	-0.101									
	7	45	CR	*	994	-0.124									
	7	95	MC	*	994	-0.104									
	7	103	MC	*	994	-0.101									
	8	10	CR	*	1008	-0.122									
	8	103	MC	*	1008	-0.122									
	9	12	CR				*	1439	-0.103						
	9	26	CR	*	1093	-0.123							+	5068	0.160
	9	41	CR	*	1093	-0.133							+	5068	0.128
	9	105	CR				*	1439	-0.103						
	10	7	CR	*	1196	-0.117									
	10	27	CR				*	1361	-0.114						
	10	30	CR				*	1361	-0.131						
	10	31	CR										+	4117	0.117
	10	99	MC	*	1196	-0.117									

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 247. Items Flagged for DIF by Education Plan Focal Group (cont'd)

| | | | | Education Plan Focal Group[1] | | | | | | | | | | | |
| | | | | 504 | | | GATE | | | IEP | | | Title 1 | | |
Content Area	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	4	3A	CR				*	1185	-0.108						
	4	3B	CR	*	636	-0.101	*	1185	-0.140	*	6396	-0.120			
	4	56	MC				+	1185	0.106						
	4	77	CR	*	636	-0.166	*	1185	-0.142	*	6396	-0.145			
	4	95	CR	*	636	-0.103									
	5	58	MC				+	1247	0.105						
	5	74	CR	*	807	-0.143	*	1247	-0.130						
	5	81	MC							+	6436	0.109			
	5	93	CR	*	807	-0.101									
	6	3A	CR	*	915	-0.133									
	6	3B	CR	*	915	-0.109									
	6	59	MC				+	1340	0.131						
	6	71	CR	*	915	-0.163									
	6	97	CR	*	915	-0.126									
	7	3A	CR	*	994	-0.131							+	10003	0.117
	7	3B	CR				*	1577	-0.122	*	5703	-0.134			
	7	74	CR	*	994	-0.163									
	7	94	CR	*	994	-0.170									
	8	3A	CR	*	1009	-0.103									
	8	96	CR	*	1009	-0.119									
	9	96	CR	*	1097	-0.115									
	10	3A	CR										+	4116	0.120
	10	3B	CR	*	1200	-0.102							+	4116	0.101
	10	71	CR	*	1200	-0.126									
Mathematics	3	11	CR	*	536	-0.130									
	3	16	CR				*	740	-0.118						
	3	20	CR	+	536	0.103									
	4	46	CR				*	1187	-0.125	*	6443	-0.103			
	4	55	CR				+	1187	0.106						
	5	46	CR				+	1255	0.104						
	6	47	CR							*	6287	-0.108			
	7	20	CR				+	1581	0.111						
	7	54	CR				+	1581	0.109						
	8	60	CR										+	9457	0.111
	9	60	CR	*	1100	-0.116							+	5097	0.141
Science	5	75	CR							*	6462	-0.131			
	8	22	CR	*	1000	-0.163				*	5477	-0.134			
	10	22	CR	*	1195	-0.114				*	4521	-0.200	+	4123	0.119
	10	34	CR	+	1195	0.105				+	4521	0.106			

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible

Content Area	Grade	Item #	Item Type	Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
	3	1	MC							*	150	-0.113			
	3	30	CR				+	502	0.124						
	3	37	MC				*	502	-0.104	*	150	-0.118			
	4	7	MC							*	190	-0.105			
	4	28	CR				+	439	0.131						
	4	35	CR							+	190	0.250			
	4	42	CR							+	190	0.165			
	4	99	MC							*	190	-0.105			
	5	5	CR							*	205	-0.118			
	5	12	CR							*	205	-0.128			
	5	21	MC							*	205	-0.102			
	5	33	CR				+	458	0.105						
	5	95	MC							*	205	-0.118			
	5	102	MC							*	205	-0.128			
	5	111	MC							*	205	-0.102			
	6	18	MC							*	182	-0.116			
	6	47	MC				*	430	-0.139						
	6	49	CR				+	430	0.104	+	182	0.143			
	6	51	MC							*	182	-0.111			
	6	112	MC							*	182	-0.116			
	7	4	CR				+	475	0.119						
	7	12	CR				+	475	0.101						
	7	14	MC							*	169	-0.108			
Reading	7	30	MC				*	475	-0.137						
	7	41	MC				*	475	-0.105	*	169	-0.151			
	7	95	MC				+	475	0.119						
	7	103	MC				+	475	0.101						
	7	105	CR							*	169	-0.108			
	8	4	CR				+	476	0.124						
	8	14	MC				*	476	-0.117						
	8	15	MC				*	476	-0.143	*	146	-0.119			
	8	19	CR				+	476	0.103						
	8	20	CR				+	476	0.171						
	8	26	CR				+	476	0.147						
	8	27	MC				*	476	-0.169	*	146	-0.125			
	8	31	MC							*	146	-0.138			
	8	32	MC				+	476	0.125						
	8	42	CR				+	476	0.114						
	8	45	CR				+	476	0.199	+	146	0.202			
	8	48	CR				+	476	0.187						
	8	97	MC				+	476	0.124						
	8	107	MC				*	476	-0.117						
	8	108	MC				*	476	-0.143	*	146	-0.119			
	8	112	MC				+	476	0.103						
	8	113	MC				+	476	0.171						
	9	23	CR				+	552	0.204	+	160	0.172			
	9	26	CR				+	552	0.253	+	160	0.153			

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)

Content Area	Grade	Item #	Item Type	Homeless Flag	Homeless N	Homeless Obs-Prd	Immigrant Flag	Immigrant N	Immigrant Obs-Prd	Migrant Flag	Migrant N	Migrant Obs-Prd	Free Lunch Flag	Free Lunch N	Free Lunch Obs-Prd
	9	33	MC							*	160	-0.100			
	9	34	MC							*	160	-0.101			
	9	36	MC							*	160	-0.127			
	9	38	MC				*	552	-0.102						
	9	40	MC				+	552	0.105						
	9	41	CR				+	552	0.181	+	160	0.182			
	9	44	MC							*	160	-0.123			
	10	4	MC				*	550	-0.118						
	10	9	MC							*	122	-0.149			
Reading	10	11	MC				*	550	-0.141						
	10	27	CR				*	550	-0.219						
	10	31	CR				+	550	0.249						
	10	34	MC							*	122	-0.104			
	10	49	CR				+	550	0.168						
	10	50	MC							*	122	-0.119			
	10	51	CR				+	550	0.136						
	10	96	MC				*	550	-0.118						
	10	101	MC							*	122	-0.149			
	10	103	MC				*	550	-0.141						
	3	1E	CR							+	149	0.114			
	3	2	MC				*	503	-0.167	*	149	-0.268			
	3	5	MC							*	149	-0.106			
	3	31	MC							+	149	0.125			
	3	34	MC							*	149	-0.125			
	4	2C	CR				+	438	0.110						
	4	56	MC							*	189	-0.101			
	4	58	MC				*	438	-0.161	*	189	-0.220			
	4	75	MC				*	438	-0.116						
	4	77	CR							+	189	0.281			
	4	95	CR							+	189	0.222			
	5	2E	CR				*	455	-0.159						
Writing	5	2F	CR				*	455	-0.102						
	5	71	MC				+	455	0.131						
	5	86	MC				*	455	-0.107	*	205	-0.126			
	5	87	MC				*	455	-0.168	*	205	-0.112			
	6	2B	CR				*	444	-0.121						
	6	68	MC				*	444	-0.108						
	7	2E	CR				*	475	-0.215						
	7	3A	CR							+	169	0.215			
	7	53	MC				*	475	-0.169						
	7	71	MC				+	475	0.112						
	7	73	MC				*	475	-0.107	*	169	-0.113			
	7	74	CR							+	169	0.181			
	7	85	MC				*	475	-0.116	*	169	-0.144			

1. DIF is not reported for N less than 100.　Flag + = favoring and * = disfavoring

Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)

Content Area	Grade	Item #	Item Type	Homeless Flag	Homeless N	Homeless Obs-Prd	Immigrant Flag	Immigrant N	Immigrant Obs-Prd	Migrant Flag	Migrant N	Migrant Obs-Prd	Free Lunch Flag	Free Lunch N	Free Lunch Obs-Prd
	7	92	MC				*	475	-0.193	*	169	-0.188			
	7	94	CR				+	475	0.169						
	8	2B	CR				*	475	-0.129	*	145	-0.182			
	8	2D	CR				*	475	-0.103						
	8	2E	CR							+	145	0.115			
	8	55	MC				*	475	-0.107	*	145	-0.103			
	8	69	MC							*	145	-0.113			
	8	81	MC				+	475	0.133	+	145	0.161			
	8	91	MC				*	475	-0.110						
	8	95	MC				+	475	0.111						
	9	56	MC				*	548	-0.282	*	160	-0.157			
	9	64	MC							+	160	0.111			
	9	91	MC				*	548	-0.113	*	160	-0.163			
Writing	9	116	CR							+	160	0.111			
	10	2A	CR				*	551	-0.107	*	123	-0.119			
	10	2B	CR				*	551	-0.103	*	123	-0.143			
	10	2F	CR				*	551	-0.227	*	123	-0.136			
	10	61	MC							*	123	-0.172			
	10	62	MC				+	551	0.111						
	10	63	MC							*	123	-0.143			
	10	64	MC				+	551	0.105						
	10	71	CR							+	123	0.247			
	10	72	MC				*	551	-0.116						
	10	81	MC				+	551	0.106						
	10	84	MC				+	550	0.104						
	10	88	MC				*	551	-0.137	*	123	-0.119			
	10	116	CR				+	551	0.105						
	3	2	MC				*	554	-0.149						
	3	12	MC							*	157	-0.118			
	3	15	MC				*	554	-0.119						
	3	31	MC				+	554	0.130						
	3	33	MC							*	157	-0.115			
	4	8	CR							*	197	-0.127			
	4	14	MC				+	468	0.101						
	4	20	CR				*	468	-0.198						
Mathematics	4	48	MC				*	468	-0.119	*	197	-0.104			
	4	67	MC				+	468	0.100						
	4	69	CR				+	468	0.150	+	197	0.271			
	5	8	CR				*	466	-0.131						
	5	17	MC							+	204	0.122			
	5	18	CR				*	466	-0.239	*	204	-0.220			
	5	30	CR				*	466	-0.110						
	5	53	MC				+	466	0.128						

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)

Content Area	Grade	Item #	Item Type	Homeless Flag	Homeless N	Homeless Obs-Prd	Immigrant Flag	Immigrant N	Immigrant Obs-Prd	Migrant Flag	Migrant N	Migrant Obs-Prd	Free Lunch Flag	Free Lunch N	Free Lunch Obs-Prd
	5	64	CR				*	466	-0.104						
	5	67	MC				+	466	0.119						
	5	69	CR				*	466	-0.124						
	6	7	MC							+	182	0.136			
	6	15	MC							+	182	0.102			
	6	16	CR				*	443	-0.235	*	182	-0.240			
	6	24	CR				*	443	-0.194	*	182	-0.161			
	6	29	MC							+	182	0.128			
	6	37	CR				*	443	-0.142						
	6	40	CR				*	443	-0.114						
	6	44	MC							*	182	-0.102			
	6	51	CR				+	443	0.193						
	6	53	MC				+	443	0.124						
	7	3	CR				+	478	0.180						
	7	26	CR				+	478	0.169						
	7	35	CR				*	478	-0.111						
	7	50	CR				*	478	-0.143						
	7	54	CR				*	478	-0.128						
	7	58	MC							*	171	-0.121			
Mathematics	7	60	CR				*	478	-0.102						
	8	4	CR				+	471	0.113						
	8	7	CR				*	471	-0.183						
	8	10	CR				*	471	-0.141						
	8	28	CR				+	471	0.138						
	8	32	CR				+	471	0.116						
	8	40	CR				*	471	-0.100						
	8	47	CR				*	471	-0.342	*	151	-0.198			
	8	60	CR				+	471	0.113						
	9	18	MC							*	161	-0.114			
	9	20	CR				*	557	-0.213						
	9	25	CR				*	557	-0.124						
	9	39	MC				*	557	-0.113						
	9	40	CR				+	557	0.110						
	9	44	CR				*	557	-0.137						
	10	2	CR				*	552	-0.154						
	10	20	CR				*	552	-0.257						
	10	27	CR				*	552	-0.103						
	10	32	CR				*	552	-0.114						
	10	35	CR				*	552	-0.150						

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)

Content Area	Grade	Item #	Item Type	Focal Group[1]											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Science	8	8	MC				+	474	0.116						
	8	13	MC							*	150	-0.109			
	8	22	CR				+	474	0.242						
	8	42	MC				*	474	-0.111	*	150	-0.136			
	8	48	CR				*	474	-0.200	*	150	-0.175			
	8	59	MC				+	474	0.128						
	10	24	CR				*	550	-0.114						
	10	34	CR				*	550	-0.168						
	10	45	MC				+	550	0.103						
	10	54	MC				+	550	0.130						
	10	56	MC				*	550	-0.130						
	10	64	MC				+	550	0.101						
	10	72	CR				+	550	0.125						
	10	75	CR				*	550	-0.188	*	124	-0.169			

1. DIF is not reported for N less than 100.   Flag + = favoring and * = disfavoring

Table 249. Intercorrelations among Content Areas (Scale Scores)

Grade	Content Area	Reading	Writing	Mathematics	Science
3	Reading	1.00	0.78	0.72	
	Writing		1.00	0.75	
	Mathematics			1.00	
4	Reading	1.00	0.81	0.78	
	Writing		1.00	0.78	
	Mathematics			1.00	
5	Reading	1.00	0.82	0.77	0.82
	Writing		1.00	0.78	0.78
	Mathematics			1.00	0.84
	Science				1.00
6	Reading	1.00	0.83	0.77	
	Writing		1.00	0.78	
	Mathematics			1.00	
7	Reading	1.00	0.84	0.77	
	Writing		1.00	0.77	
	Mathematics			1.00	
8	Reading	1.00	0.85	0.78	0.84
	Writing		1.00	0.77	0.79
	Mathematics			1.00	0.86
	Science				1.00
9	Reading	1.00	0.85	0.77	
	Writing		1.00	0.77	
	Mathematics			1.00	
10	Reading	1.00	0.84	0.75	0.82
	Writing		1.00	0.74	0.78
	Mathematics			1.00	0.85
	Science				1.00

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Table 250. Intercorrelations among Content Areas (Percentile Ranks)

Grade	Content Area	Reading	Writing	Mathematics	Science
3	Reading	1.00	0.81	0.76	
	Writing		1.00	0.77	
	Mathematics			1.00	
4	Reading	1.00	0.84	0.81	
	Writing		1.00	0.78	
	Mathematics			1.00	
5	Reading	1.00	0.86	0.80	0.86
	Writing		1.00	0.79	0.79
	Mathematics			1.00	0.84
	Science				1.00
6	Reading	1.00	0.86	0.79	
	Writing		1.00	0.78	
	Mathematics			1.00	
7	Reading	1.00	0.87	0.78	
	Writing		1.00	0.78	
	Mathematics			1.00	
8	Reading	1.00	0.87	0.78	0.85
	Writing		1.00	0.77	0.80
	Mathematics			1.00	0.87
	Science				1.00
9	Reading	1.00	0.88	0.79	
	Writing		1.00	0.78	
	Mathematics			1.00	
10	Reading	1.00	0.87	0.77	0.84
	Writing		1.00	0.76	0.80
	Mathematics			1.00	0.87
	Science				1.00

Table 251. Intercorrelations with Demographic Variables

Content Area	Grade	Age	Gender	Am. Indian/ AK Native	Asian	Black	Hispanic
Reading	3	-0.061	-0.101	-0.040	0.025	-0.088	-0.265
	4	-0.076	-0.111	-0.029	0.038	-0.098	-0.280
	5	-0.096	-0.127	-0.036	0.045	-0.094	-0.273
	6	-0.112	-0.145	-0.029	0.039	-0.095	-0.304
	7	-0.126	-0.141	-0.034	0.037	-0.101	-0.293
	8	-0.137	-0.158	-0.032	0.042	-0.117	-0.293
	9	-0.171	-0.164	-0.033	0.047	-0.104	-0.272
	10	-0.187	-0.185	-0.026	0.033	-0.096	-0.262
Writing	3	-0.065	-0.162	-0.040	0.036	-0.081	-0.258
	4	-0.076	-0.186	-0.037	0.060	-0.093	-0.262
	5	-0.096	-0.192	-0.038	0.063	-0.094	-0.262
	6	-0.121	-0.202	-0.038	0.073	-0.093	-0.265
	7	-0.133	-0.211	-0.038	0.064	-0.089	-0.281
	8	-0.148	-0.215	-0.038	0.054	-0.097	-0.256
	9	-0.175	-0.203	-0.043	0.061	-0.104	-0.277
	10	-0.192	-0.215	-0.031	0.047	-0.093	-0.268
Mathematics	3	-0.039	0.024	-0.036	0.063	-0.113	-0.289
	4	-0.072	0.012	-0.037	0.072	-0.125	-0.286
	5	-0.094	-0.014	-0.037	0.085	-0.122	-0.276
	6	-0.120	-0.019	-0.033	0.083	-0.126	-0.286
	7	-0.142	-0.022	-0.037	0.083	-0.122	-0.281
	8	-0.145	-0.014	-0.031	0.083	-0.125	-0.278
	9	-0.180	-0.012	-0.036	0.084	-0.139	-0.293
	10	-0.200	0.025	-0.030	0.083	-0.118	-0.293
Science	5	-0.071	0.000	-0.037	0.042	-0.125	-0.347
	8	-0.127	-0.005	-0.036	0.047	-0.127	-0.315
	10	-0.183	-0.002	-0.029	0.052	-0.112	-0.315
Reading Spanish	3	-0.010	-0.186	0.002			-0.001
	4	-0.203	0.090				-0.024
Writing Spanish	3	-0.020	-0.226	0.032			-0.010
	4	-0.159	0.020				-0.035

Table 252. Predictive Validity Coefficients

Content Area	Grade in 2012	Grade in 2013	Number Matched	Reliability 2012	Reliability 2013	Correlation $r_{2012\text{-}2013}$	Validity Coefficient
Reading	3	4	59420	0.89	0.93	0.83	0.91
	4	5	59368	0.94	0.93	0.86	0.92
	5	6	58283	0.94	0.93	0.87	0.93
	6	7	58372	0.93	0.93	0.88	0.94
	7	8	57150	0.93	0.92	0.87	0.94
	8	9	55661	0.93	0.93	0.85	0.92
	9	10	53676	0.92	0.92	0.85	0.92
Writing	3	4	59469	0.91	0.91	0.76	0.84
	4	5	59660	0.91	0.91	0.77	0.84
	5	6	58872	0.92	0.91	0.79	0.86
	6	7	58613	0.91	0.91	0.80	0.88
	7	8	57396	0.92	0.91	0.80	0.87
	8	9	55970	0.91	0.92	0.80	0.88
	9	10	53971	0.92	0.91	0.79	0.87
Mathematics	3	4	60621	0.92	0.94	0.86	0.92
	4	5	59823	0.95	0.94	0.89	0.94
	5	6	59044	0.94	0.94	0.90	0.95
	6	7	58028	0.94	0.93	0.91	0.97
	7	8	57124	0.94	0.93	0.91	0.97
	8	9	55374	0.94	0.92	0.89	0.96
	9	10	52646	0.94	0.93	0.89	0.95

* The Spanish version tests were removed from this table due to having very small n counts.

Table 253. Classification Consistency and Classification Accuracy for Reading Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0799	0.0210	0.0001	0.0000	0.1010
Partially Proficient	0.0181	0.1108	0.0460	0.0000	0.1749
Proficient	0.0008	0.0459	0.5499	0.0411	0.6376
Advanced	0.0000	0.0000	0.0346	0.0519	0.0865
Sum	0.0987	0.1776	0.6306	0.0930	0.1917
Observed Score Dist.	0.0960	0.1681	0.6665	0.0693	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9600	0.9073	0.9243	0.7925
Chance Probability (Pc)	0.8202	0.6002	0.8366	0.4512
Kappa	0.7777	0.7680	0.5370	0.6220
Classification Accuracy	0.9722	0.9340	0.9489	0.8553

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Table 254. Classification Consistency and Classification Accuracy for Reading Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0913	0.0163	0.0000	0.0000	0.1076
Partially Proficient	0.0163	0.1611	0.0502	0.0000	0.2276
Proficient	0.0000	0.0345	0.5499	0.0224	0.6067
Advanced	0.0000	0.0000	0.0223	0.0358	0.0581
Sum	0.1075	0.2119	0.6223	0.0582	0.1657
Observed Score Dist.	0.1054	0.2134	0.6353	0.0459	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9674	0.9153	0.9553	0.8380
Chance Probability (Pc)	0.8080	0.5595	0.8905	0.4408
Kappa	0.8301	0.8078	0.5920	0.7104
Classification Accuracy	0.9763	0.9406	0.9684	0.8853

Table 255. Classification Consistency and Classification Accuracy for Reading Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0987	0.0197	0.0000	0.0000	0.1184
Partially Proficient	0.0234	0.1205	0.0412	0.0000	0.1852
Proficient	0.0000	0.0291	0.5450	0.0264	0.6005
Advanced	0.0000	0.0000	0.0304	0.0654	0.0958
Sum	0.1221	0.1694	0.6167	0.0918	0.2139
Observed Score Dist.	0.1154	0.1782	0.6240	0.0824	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9568	0.9296	0.9432	0.8296
Chance Probability (Pc)	0.7884	0.5819	0.8300	0.4250
Kappa	0.7960	0.8317	0.6658	0.7037
Classification Accuracy	0.9692	0.9459	0.9599	0.8750

Table 256. Classification Consistency and Classification Accuracy for Reading Grade 6

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0670	0.0160	0.0002	0.0000	0.0832
Partially Proficient	0.0163	0.1309	0.0332	0.0000	0.1804
Proficient	0.0000	0.0349	0.5393	0.0355	0.6097
Advanced	0.0000	0.0000	0.0372	0.0895	0.1267
Sum	0.0834	0.1818	0.6099	0.1250	0.2084
Observed Score Dist.	0.0794	0.1818	0.6247	0.1141	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9675	0.9317	0.9273	0.8267
Chance Probability (Pc)	0.8473	0.6110	0.7800	0.4274
Kappa	0.7870	0.8245	0.6694	0.6973
Classification Accuracy	0.9779	0.9523	0.9489	0.8791

Table 257. Classification Consistency and Classification Accuracy for Reading Grade 7

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0925	0.0177	0.0000	0.0000	0.1101
Partially Proficient	0.0205	0.1510	0.0430	0.0000	0.2145
Proficient	0.0000	0.0428	0.4964	0.0335	0.5727
Advanced	0.0000	0.0000	0.0371	0.0656	0.1027
Sum	0.1130	0.2114	0.5764	0.0991	0.2121
Observed Score Dist.	0.1099	0.2107	0.5908	0.0887	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9618	0.9142	0.9294	0.8054
Chance Probability (Pc)	0.8017	0.5616	0.8186	0.3981
Kappa	0.8074	0.8044	0.6108	0.6767
Classification Accuracy	0.9738	0.9440	0.9511	0.8689

Table 258. Classification Consistency and Classification Accuracy for Reading Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0832	0.0185	0.0002	0.0000	0.1019
Partially Proficient	0.0182	0.1708	0.0429	0.0000	0.2319
Proficient	0.0000	0.0425	0.4975	0.0339	0.5738
Advanced	0.0000	0.0000	0.0314	0.0609	0.0923
Sum	0.1014	0.2318	0.5720	0.0948	0.1962
Observed Score Dist.	0.0970	0.2291	0.5932	0.0807	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9631	0.9144	0.9347	0.8124
Chance Probability (Pc)	0.8173	0.5554	0.8304	0.4011
Kappa	0.7978	0.8075	0.6151	0.6868
Classification Accuracy	0.9740	0.9370	0.9548	0.8658

Table 259. Classification Consistency and Classification Accuracy for Reading Grade 9

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0610	0.0131	0.0000	0.0000	0.0741
Partially Proficient	0.0157	0.1859	0.0409	0.0000	0.2425
Proficient	0.0000	0.0457	0.5693	0.0205	0.6355
Advanced	0.0000	0.0000	0.0198	0.0281	0.0479
Sum	0.0767	0.2448	0.6300	0.0486	0.1253
Observed Score Dist.	0.0702	0.2434	0.6489	0.0374	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9712	0.9134	0.9597	0.8442
Chance Probability (Pc)	0.8606	0.5655	0.9082	0.4677
Kappa	0.7931	0.8006	0.5611	0.7073
Classification Accuracy	0.9799	0.9369	0.9711	0.8880

Table 260. Classification Consistency and Classification Accuracy for Reading Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0610	0.0139	0.0000	0.0000	0.0749
Partially Proficient	0.0151	0.1668	0.0370	0.0000	0.2189
Proficient	0.0000	0.0386	0.5103	0.0369	0.5857
Advanced	0.0000	0.0000	0.0389	0.0816	0.1206
Sum	0.0761	0.2192	0.5862	0.1185	0.1946
Observed Score Dist.	0.0721	0.2147	0.6077	0.1055	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9710	0.9245	0.9242	0.8197
Chance Probability (Pc)	0.8604	0.5844	0.7895	0.4113
Kappa	0.7921	0.8183	0.6399	0.6937
Classification Accuracy	0.9792	0.9407	0.9473	0.8672

Table 261. Classification Consistency and Classification Accuracy for Writing Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0466	0.0132	0.0000	0.0000	0.0599
Partially Proficient	0.0146	0.3494	0.0597	0.0000	0.4237
Proficient	0.0000	0.0671	0.3120	0.0356	0.4147
Advanced	0.0000	0.0000	0.0387	0.0631	0.1018
Sum	0.0612	0.4298	0.4103	0.0987	0.1599
Observed Score Dist.	0.0566	0.4323	0.4335	0.0776	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9722	0.8731	0.9258	0.7711
Chance Probability (Pc)	0.8862	0.5003	0.8196	0.3659
Kappa	0.7556	0.7461	0.5885	0.6390
Classification Accuracy	0.9791	0.9109	0.9459	0.8359

Table 262. Classification Consistency and Classification Accuracy for Writing Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0556	0.0175	0.0000	0.0000	0.0731
Partially Proficient	0.0192	0.3162	0.0643	0.0000	0.3997
Proficient	0.0000	0.0620	0.3335	0.0341	0.4296
Advanced	0.0000	0.0000	0.0350	0.0626	0.0976
Sum	0.0747	0.3957	0.4328	0.0968	0.1715
Observed Score Dist.	0.0690	0.3964	0.4537	0.0808	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9633	0.8738	0.9309	0.7679
Chance Probability (Pc)	0.8631	0.5016	0.8245	0.3590
Kappa	0.7317	0.7467	0.6061	0.6380
Classification Accuracy	0.9766	0.9098	0.9544	0.8408

Table 263. Classification Consistency and Classification Accuracy for Writing Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0405	0.0137	0.0000	0.0000	0.0542
Partially Proficient	0.0152	0.3003	0.0589	0.0000	0.3744
Proficient	0.0000	0.0610	0.3684	0.0358	0.4651
Advanced	0.0000	0.0000	0.0336	0.0727	0.1063
Sum	0.0557	0.3749	0.4609	0.1085	0.1642
Observed Score Dist.	0.0499	0.3739	0.4855	0.0907	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9711	0.8802	0.9306	0.7819
Chance Probability (Pc)	0.8962	0.5099	0.8083	0.3693
Kappa	0.7217	0.7555	0.6381	0.6542
Classification Accuracy	0.9796	0.9156	0.9491	0.8442

Table 264. Classification Consistency and Classification Accuracy for Writing Grade 6

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0317	0.0153	0.0000	0.0000	0.0470
Partially Proficient	0.0129	0.3002	0.0641	0.0000	0.3773
Proficient	0.0000	0.0687	0.3682	0.0360	0.4729
Advanced	0.0000	0.0000	0.0315	0.0713	0.1028
Sum	0.0447	0.3842	0.4638	0.1073	0.1520
Observed Score Dist.	0.0419	0.3786	0.4905	0.0890	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9717	0.8672	0.9325	0.7714
Chance Probability (Pc)	0.9125	0.5108	0.8120	0.3774
Kappa	0.6771	0.7285	0.6409	0.6328
Classification Accuracy	0.9800	0.9165	0.9517	0.8482

Table 265. Classification Consistency and Classification Accuracy for Writing Grade 7

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0215	0.0109	0.0000	0.0000	0.0324
Partially Proficient	0.0097	0.2876	0.0563	0.0000	0.3537
Proficient	0.0000	0.0553	0.3501	0.0442	0.4496
Advanced	0.0000	0.0000	0.0431	0.1213	0.1644
Sum	0.0312	0.3537	0.4495	0.1655	0.1967
Observed Score Dist.	0.0281	0.3539	0.4685	0.1495	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9794	0.8884	0.9127	0.7805
Chance Probability (Pc)	0.9384	0.5262	0.7245	0.3554
Kappa	0.6652	0.7645	0.6833	0.6595
Classification Accuracy	0.9858	0.9231	0.9344	0.8433

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Table 266. Classification Consistency and Classification Accuracy for Writing Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0239	0.0106	0.0000	0.0000	0.0345
Partially Proficient	0.0090	0.3424	0.0530	0.0000	0.4044
Proficient	0.0000	0.0607	0.3587	0.0335	0.4529
Advanced	0.0000	0.0000	0.0325	0.0757	0.1081
Sum	0.0329	0.4138	0.4441	0.1092	0.1421
Observed Score Dist.	0.0303	0.4074	0.4693	0.0931	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9804	0.8863	0.9340	0.8006
Chance Probability (Pc)	0.9349	0.5065	0.8063	0.3814
Kappa	0.6984	0.7695	0.6594	0.6777
Classification Accuracy	0.9861	0.9185	0.9532	0.8577

Table 267. Classification Consistency and Classification Accuracy for Writing Grade 9

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0264	0.0125	0.0000	0.0000	0.0389
Partially Proficient	0.0086	0.3447	0.0546	0.0000	0.4079
Proficient	0.0000	0.0523	0.3636	0.0319	0.4478
Advanced	0.0000	0.0000	0.0340	0.0714	0.1054
Sum	0.0350	0.4095	0.4522	0.1033	0.1383
Observed Score Dist.	0.0324	0.4095	0.4733	0.0847	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9789	0.8931	0.9342	0.8062
Chance Probability (Pc)	0.9288	0.5059	0.8131	0.3818
Kappa	0.7035	0.7837	0.6479	0.6865
Classification Accuracy	0.9853	0.9249	0.9540	0.8641

Table 268. Classification Consistency and Classification Accuracy for Writing Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0525	0.0151	0.0000	0.0000	0.0676
Partially Proficient	0.0155	0.3547	0.0605	0.0000	0.4308
Proficient	0.0000	0.0614	0.3139	0.0360	0.4113
Advanced	0.0000	0.0000	0.0301	0.0602	0.0903
Sum	0.0680	0.4312	0.4045	0.0963	0.1643
Observed Score Dist.	0.0660	0.4352	0.4236	0.0752	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9694	0.8781	0.9339	0.7813
Chance Probability (Pc)	0.8736	0.5000	0.8308	0.3654
Kappa	0.7576	0.7561	0.6094	0.6554
Classification Accuracy	0.9792	0.9107	0.9540	0.8439

Table 269. Classification Consistency and Classification Accuracy for Mathematics Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0586	0.0218	0.0000	0.0000	0.0804
Partially Proficient	0.0191	0.1328	0.0449	0.0000	0.1968
Proficient	0.0000	0.0424	0.2994	0.0621	0.4039
Advanced	0.0000	0.0000	0.0521	0.2669	0.3190
Sum	0.0777	0.1969	0.3964	0.3290	0.4067
Observed Score Dist.	0.0718	0.2034	0.4098	0.3150	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9591	0.9127	0.8859	0.7577
Chance Probability (Pc)	0.8545	0.6005	0.5619	0.3100
Kappa	0.7192	0.7814	0.7395	0.6488
Classification Accuracy	0.9701	0.9413	0.9196	0.8310

Table 270. Classification Consistency and Classification Accuracy for Mathematics Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0679	0.0167	0.0000	0.0000	0.0845
Partially Proficient	0.0177	0.1481	0.0322	0.0000	0.1980
Proficient	0.0000	0.0319	0.3520	0.0452	0.4291
Advanced	0.0000	0.0000	0.0445	0.2438	0.2884
Sum	0.0856	0.1967	0.4287	0.2890	0.3746
Observed Score Dist.	0.0832	0.1968	0.4355	0.2845	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9657	0.9358	0.9103	0.8117
Chance Probability (Pc)	0.8444	0.5947	0.5893	0.3135
Kappa	0.7793	0.8416	0.7816	0.7258
Classification Accuracy	0.9760	0.9556	0.9385	0.8702

Table 271. Classification Consistency and Classification Accuracy for Mathematics Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0764	0.0152	0.0000	0.0000	0.0916
Partially Proficient	0.0222	0.1891	0.0404	0.0004	0.2521
Proficient	0.0000	0.0378	0.2730	0.0427	0.3535
Advanced	0.0000	0.0000	0.0484	0.2544	0.3028
Sum	0.0986	0.2421	0.3619	0.2974	0.3960
Observed Score Dist.	0.0919	0.2532	0.3659	0.2890	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9626	0.9214	0.9085	0.7929
Chance Probability (Pc)	0.8278	0.5498	0.5799	0.2880
Kappa	0.7827	0.8254	0.7823	0.7091
Classification Accuracy	0.9750	0.9458	0.9365	0.8573

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Table 272. Classification Consistency and Classification Accuracy for Mathematics Grade 6

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1036	0.0234	0.0000	0.0000	0.1269
Partially Proficient	0.0240	0.1837	0.0453	0.0000	0.2531
Proficient	0.0000	0.0407	0.2650	0.0361	0.3418
Advanced	0.0000	0.0000	0.0350	0.2432	0.2782
Sum	0.1275	0.2478	0.3454	0.2793	0.4068
Observed Score Dist.	0.1188	0.2581	0.3514	0.2716	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9526	0.9140	0.9289	0.7955
Chance Probability (Pc)	0.7779	0.5299	0.5979	0.2746
Kappa	0.7868	0.8171	0.8231	0.7181
Classification Accuracy	0.9644	0.9418	0.9505	0.8567

Table 273. Classification Consistency and Classification Accuracy for Mathematics Grade 7

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1173	0.0294	0.0000	0.0000	0.1467
Partially Proficient	0.0342	0.2132	0.0481	0.0000	0.2954
Proficient	0.0000	0.0470	0.1954	0.0349	0.2773
Advanced	0.0000	0.0003	0.0395	0.2407	0.2805
Sum	0.1515	0.2900	0.2830	0.2755	0.4270
Observed Score Dist.	0.1424	0.3050	0.2804	0.2721	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9364	0.9046	0.9253	0.7666
Chance Probability (Pc)	0.7462	0.5068	0.5985	0.2637
Kappa	0.7495	0.8066	0.8138	0.6830
Classification Accuracy	0.9537	0.9386	0.9490	0.8413

Table 274. Classification Consistency and Classification Accuracy for Mathematics Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1540	0.0391	0.0003	0.0000	0.1934
Partially Proficient	0.0407	0.2068	0.0457	0.0000	0.2932
Proficient	0.0000	0.0440	0.1968	0.0315	0.2723
Advanced	0.0000	0.0000	0.0361	0.2050	0.2411
Sum	0.1947	0.2899	0.2790	0.2365	0.4312
Observed Score Dist.	0.1908	0.2911	0.2878	0.2303	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9200	0.9099	0.9324	0.7626
Chance Probability (Pc)	0.6872	0.5004	0.6365	0.2556
Kappa	0.7441	0.8197	0.8141	0.6811
Classification Accuracy	0.9459	0.9351	0.9548	0.8358

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Table 275. Classification Consistency and Classification Accuracy for Mathematics Grade 9

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2521	0.0526	0.0007	0.0000	0.3054
Partially Proficient	0.0482	0.2025	0.0472	0.0000	0.2979
Proficient	0.0004	0.0456	0.1713	0.0265	0.2438
Advanced	0.0000	0.0000	0.0219	0.1311	0.1530
Sum	0.3007	0.3006	0.2411	0.1576	0.4583
Observed Score Dist.	0.3001	0.3068	0.2423	0.1508	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8982	0.9062	0.9516	0.7570
Chance Probability (Pc)	0.5776	0.5209	0.7376	0.2642
Kappa	0.7589	0.8042	0.8154	0.6697
Classification Accuracy	0.9272	0.9326	0.9664	0.8262

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Table 276. Classification Consistency and Classification Accuracy for Mathematics Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2531	0.0463	0.0000	0.0000	0.2993
Partially Proficient	0.0514	0.2624	0.0365	0.0000	0.3504
Proficient	0.0000	0.0339	0.2305	0.0141	0.2785
Advanced	0.0000	0.0000	0.0156	0.0562	0.0718
Sum	0.3045	0.3426	0.2826	0.0703	0.3748
Observed Score Dist.	0.2981	0.3557	0.2815	0.0648	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9023	0.9296	0.9704	0.8023
Chance Probability (Pc)	0.5785	0.5440	0.8680	0.2949
Kappa	0.7682	0.8456	0.7756	0.7195
Classification Accuracy	0.9307	0.9486	0.9772	0.8566

Table 277. Classification Consistency and Classification Accuracy for Science Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1267	0.0295	0.0000	0.0000	0.1562
Partially Proficient	0.0328	0.2853	0.0547	0.0000	0.3728
Proficient	0.0000	0.0530	0.2450	0.0358	0.3338
Advanced	0.0000	0.0000	0.0328	0.1045	0.1373
Sum	0.1594	0.3678	0.3326	0.1402	0.2996
Observed Score Dist.	0.1398	0.3742	0.3550	0.1310	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9377	0.8923	0.9314	0.7614
Chance Probability (Pc)	0.7342	0.5016	0.7610	0.2923
Kappa	0.7658	0.7839	0.7130	0.6629
Classification Accuracy	0.9536	0.9270	0.9488	0.8293

Table 278. Classification Consistency and Classification Accuracy for Science Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1676	0.0390	0.0003	0.0000	0.2070
Partially Proficient	0.0322	0.1822	0.0457	0.0000	0.2601
Proficient	0.0006	0.0498	0.3548	0.0286	0.4338
Advanced	0.0000	0.0000	0.0266	0.0725	0.0991
Sum	0.2004	0.2710	0.4275	0.1011	0.3015
Observed Score Dist.	0.2096	0.2697	0.4344	0.0863	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9278	0.9035	0.9448	0.7770
Chance Probability (Pc)	0.6756	0.5019	0.8199	0.3075
Kappa	0.7775	0.8062	0.6936	0.6781
Classification Accuracy	0.9503	0.9287	0.9616	0.8405

Table 279. Classification Consistency and Classification Accuracy for Science Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2234	0.0430	0.0021	0.0000	0.2685
Partially Proficient	0.0342	0.1172	0.0505	0.0000	0.2019
Proficient	0.0018	0.0468	0.3607	0.0271	0.4365
Advanced	0.0000	0.0000	0.0272	0.0660	0.0932
Sum	0.2593	0.2070	0.4406	0.0931	0.3524
Observed Score Dist.	0.2604	0.2154	0.4402	0.0840	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9189	0.8988	0.9457	0.7673
Chance Probability (Pc)	0.6114	0.5020	0.8311	0.3124
Kappa	0.7913	0.7969	0.6782	0.6615
Classification Accuracy	0.9393	0.9307	0.9646	0.8349

Table 280. Classification Consistency and Classification Accuracy for Reading Grade 3 (Spanish)

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1402	0.0293	0.0016	0.0000	0.1711
Partially Proficient	0.0338	0.1201	0.0514	0.0000	0.2053
Proficient	0.0011	0.0557	0.3883	0.0493	0.4945
Advanced	0.0000	0.0000	0.0406	0.0885	0.1291
Sum	0.1751	0.2052	0.4819	0.1378	1.0000
Observed Score Dist.	0.1689	0.2004	0.5162	0.1145	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9342	0.8901	0.9101	0.7371
Chance Probability (Pc)	0.7137	0.5296	0.7687	0.3282
Kappa	0.7701	0.7665	0.6113	0.6087
Classification Accuracy	0.9511	0.9169	0.9378	0.8059

Table 281. Classification Consistency and Classification Accuracy for Reading Grade 4 (Spanish)

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2899	0.0497	0.0003	0.0000	0.3399
Partially Proficient	0.0493	0.1740	0.0466	0.0000	0.2698
Proficient	0.0005	0.0479	0.3058	0.0105	0.3647
Advanced	0.0000	0.0000	0.0089	0.0166	0.0255
Sum	0.3397	0.2717	0.3617	0.0270	1.0000
Observed Score Dist.	0.3554	0.2771	0.3434	0.0241	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9002	0.9046	0.9806	0.7863
Chance Probability (Pc)	0.5513	0.5244	0.9489	0.3214
Kappa	0.7775	0.7995	0.6212	0.6851
Classification Accuracy	0.9285	0.9321	0.9876	0.8481

Table 282. Classification Consistency and Classification Accuracy for Writing Grade 3 (Spanish)

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1091	0.0318	0.0004	0.0000	0.1414
Partially Proficient	0.0300	0.1427	0.0577	0.0003	0.2307
Proficient	0.0005	0.0547	0.2686	0.0624	0.3862
Advanced	0.0000	0.0001	0.0599	0.1817	0.2417
Sum	0.1396	0.2294	0.3866	0.2444	1.0000
Observed Score Dist.	0.1332	0.2354	0.3975	0.2339	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9373	0.8863	0.8773	0.7022
Chance Probability (Pc)	0.7585	0.5335	0.6320	0.2810
Kappa	0.7404	0.7562	0.6666	0.5857
Classification Accuracy	0.9541	0.9218	0.9102	0.7862

Table 283. Classification Consistency and Classification Accuracy for Writing Grade 4 (Spanish)

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.3844	0.0782	0.0010	0.0000	0.4636
Partially Proficient	0.0646	0.1973	0.0445	0.0000	0.3065
Proficient	0.0010	0.0519	0.1642	0.0040	0.2210
Advanced	0.0000	0.0000	0.0036	0.0053	0.0089
Sum	0.4500	0.3274	0.2133	0.0093	1.0000
Observed Score Dist.	0.3313	0.3976	0.2530	0.0181	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8552	0.9016	0.9924	0.7512
Chance Probability (Pc)	0.5036	0.6499	0.9820	0.3562
Kappa	0.7082	0.7191	0.5801	0.6136
Classification Accuracy	0.8995	0.9316	0.9943	0.8254

**Table 284. Mean and Median Scale Scores by Year for Writing Subcontent Areas:
Paragraph Writing and Extended Writing**

Grade	Year	N	Paragraph Writing (SA5)			Extended Writing (SA6)			Combined (SA5 and SA6)		
			Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
4	2002	55488	489	491	72.8	504	486	99.3	488	485	60.3
	2003	55108	486	479	73.5	497	479	91.7	486	486	64.7
	2004	54546	492	490	65.9	517	505	107.6	492	489	59.5
	2005	54339	494	486	74.3	504	516	98.6	490	488	64.8
	2006	55640	486	488	66.1	510	495	109.6	486	484	60.3
	2007	56278	487	481	64.5	494	479	87.8	485	482	58.9
	2008	57957	489	487	64.7	517	495	112.7	489	487	59.5
	2009	59548	487	485	64.0	504	527	106.7	486	484	60.9
	2010	61099	487	486	64.7	501	490	97.2	486	485	59.9
	2011	62308	492	493	64.4	498	471	81.1	491	491	57.4
	2012	62888	485	485	63.4	501	479	97.0	484	483	56.6
	2013	64166	487	488	63.2	509	515	103.4	488	488	57.0
5	2002	56398	503	503	66.0	518	503	105.8	502	501	60.4
	2003	56822	503	504	72.3	531	500	121.1	504	503	65.3
	2004	55946	505	500	73.5	525	508	107.7	507	505	66.4
	2005	55191	512	509	70.5	543	525	130.2	510	506	65.5
	2006	55800	513	511	72.7	533	484	114.2	514	511	69.4
	2007	56704	509	507	65.9	531	538	112.9	508	506	62.4
	2008	57019	512	510	75.2	535	536	120.2	512	510	71.6
	2009	58785	510	509	65.9	536	532	117.3	510	508	63.1
	2010	59745	509	507	74.0	521	504	100.2	508	508	66.8
	2011	61706	513	510	67.3	533	542	113.1	512	510	62.7
	2012	62536	512	509	72.8	534	541	121.1	511	508	68.1
	2013	62995	507	507	66.9	561	499	142.7	508	506	61.8
6	2002	55632	518	518	76.1	528	529	95.2	518	518	68.4
	2003	56674	521	521	71.2	549	524	123.8	523	523	67.5
	2004	56744	523	522	73.7	559	547	134.6	524	521	70.1
	2005	56200	532	527	82.8	536	496	106.2	529	528	74.0
	2006	56097	531	526	82.9	542	490	116.2	529	526	76.5
	2007	56380	530	527	80.0	539	600	104.0	529	528	74.6
	2008	56901	533	530	83.4	558	538	138.4	531	526	78.1
	2009	57379	530	528	73.9	545	576	114.9	529	528	69.2
	2010	58856	527	524	80.8	535	522	103.5	525	523	71.6
	2011	60358	532	530	76.2	549	566	120.1	531	529	70.4
	2012	61742	524	522	75.6	597	511	175.7	524	521	72.8
	2013	62698	525	523	69.7	576	527	158.0	525	523	66.4

Table 284. Mean and Median Scale Scores by Year for Writing Subcontent Areas: Paragraph Writing and Extended Writing (cont'd)

Grade	Year	N	Paragraph Writing (SA5)			Extended Writing (SA6)			Combined (SA5 and SA6)		
			Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
10	2002	49009	587	588	96.7	606	580	138.4	586	585	88.8
	2003	49658	591	583	107.6	641	590	185.8	589	583	100.0
	2004	50756	584	577	96.7	588	537	117.2	581	578	84.8
	2005	51638	580	576	97.5	582	529	111.0	578	575	88.2
	2006	53754	584	581	101.2	586	523	112.1	581	578	91.1
	2007	54683	586	579	104.9	594	649	123.2	583	583	94.0
	2008	55306	579	572	109.3	590	635	142.5	577	573	100.9
	2009	55818	584	578	102.3	596	638	119.7	582	581	91.7
	2010	55225	580	574	109.1	616	604	179.3	578	573	102.7
	2011	56463	576	576	87.3	592	577	130.7	575	574	80.0
	2012	56374	577	579	93.5	625	606	177.5	577	576	87.2
	2013	57385	578	579	96.7	642	572	198.0	579	577	91.6