Kentucky Performance Rating for Educational Progress

2016–17 Yearbook

Version 1.0

Table of Contents

Glossary of Terms

Classification accuracy: The extent to which achievement classifications from test scores match classifications if test scores contained no error of measurement.

Classification consistency: The extent to which achievement classifications from test scores match classifications from test scores of a parallel form of the same test.

Constructed-response item: Test item that requires a form of written response by the examinee.

Differential item functioning: The difference in performance on an item between subgroups of students, after controlling for differences in group achievement or score level.

Field-test items: Items used on a test for gathering performance data while not contributing to examinees' test scores.

Item response theory: Measurement theory that prescribes relationships of item difficulty and examinee proficiency for indices of test performance.

Item-test correlation: Correlation between item score and total test score.

Multiple-choice item: Test item that requires selection of response from a group of options.

Percentile rank: A numerical value indicating relative standing of performance among other examinees.

Performance level: A categorization of achievement from test performance.

P-value: The proportion of correct responses to an item (for multiple-choice items).

Quartile: A group of observations representing one-fourth of the total group.

Rasch model: Measurement model that factors proficiency and item difficulty in determining probability of item success.

Raw score: The sum of points for a test, or subdomain.

Reliability: The consistency of results obtained from a measurement.

Scale score: A score derived from a transformation of a raw score.

Standard error of measurement: A statistic, in classical test theory, expressing the interval of an examinee's true score.

Standard setting: The process of setting cut points that delineate levels of achievement.

Subdomain: A set of knowledge and skills within a larger content space.

True score: An examinee's expected score resulting from multiple replications of measurement.

Appendix A. Participation Rates[1]

Students	Subgroup	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 11
All	Students Tested	52,146	52,396	51,104	49,873	49,924	49,769	46,389
Gender	Female	48.9%	49.0%	48.4%	48.8%	48.8%	48.7%	49.3%
	Male	51.0%	50.9%	51.5%	51.2%	51.1%	51.2%	50.7%
	Missing	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Ethnicity	Hispanic	7.4%	7.1%	6.9%	6.2%	5.7%	5.7%	4.5%
	Asian	1.6%	1.6%	1.7%	1.7%	1.8%	1.7%	1.7%
	Native Hawaiian/Pacific Islander	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
	Black/African American	10.3%	10.3%	10.0%	10.2%	10.1%	10.6%	10.3%
	American Indian	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
	White	75.1%	75.3%	75.9%	76.8%	77.8%	77.6%	79.6%
	Other	4.4%	4.4%	4.0%	3.6%	3.2%	2.9%	2.4%
	Missing	1.0%	1.1%	1.3%	1.1%	1.2%	1.3%	1.2%
Migrant	Non-Migrant	99.6%	99.6%	99.7%	99.7%	99.7%	99.7%	99.8%
	Migrant	0.4%	0.4%	0.3%	0.3%	0.3%	0.3%	0.2%
LEP	Non-LEP	95.1%	96.9%	97.7%	98.1%	98.1%	98.0%	98.5%
	LEP	4.9%	3.1%	2.3%	1.9%	1.9%	2.0%	1.5%
Economic Disadvantage	Free Lunch	58.4%	57.1%	54.3%	53.1%	51.5%	50.2%	43.5%
	Reduced-Price Lunch	4.1%	4.4%	4.3%	4.2%	4.5%	4.3%	4.4%
	Regular Lunch	37.5%	38.5%	41.5%	42.7%	44.0%	45.5%	52.2%
IEP	Non-IEP	85.4%	86.4%	87.6%	88.8%	89.3%	89.9%	92.0%
	IEP	14.6%	13.6%	12.4%	11.2%	10.7%	10.1%	8.0%

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[1] Alternate K-PREP students are included, but participation rates for Alternate K-PREP grades 9, 10 and 12 are not provided.

Appendix B. Score Reports

STUDENT REPORT

2017 Grade 5
Kentucky Performance Rating for Educational Progress (K-PREP)
FIRSTNAME I. LASTNAME

School: **SCHOOL NAME**
District: **DISTRICT NAME**
State ID: **0000000000**

K-PREP Student Scores

This report provides specific information about your student's performance on the K-PREP test. It also includes information for teachers and parents/guardians about how to support student learning. The K-PREP test is only one indication of how well students do in each subject tested; therefore, it is also important to consider how well students are doing on class work, special projects and assessments.

Students taking the K-PREP test are assessed on the Kentucky Academic Standards. These standards in reading, writing and mathematics are rigorous and focus on college and career readiness. Rigorous standards, across all grade levels, help students prepare for what they plan to do after high school. For the future, Kentucky continues to work toward implementation and assessment of new standards for social studies.

Student's Scores and Performance Levels

The chart below shows the student's overall performance in reading, mathematics, social studies and on-demand writing. The first bar for each subject shows the student's score printed above the bar with the performance level listed above the chart and also signified by the height of the bar. The second bar for each subject shows the school average score printed above the bar. The third bar for each subject shows the district average score printed above the bar. Finally, the fourth bar for each subject shows the state average score printed above the bar.
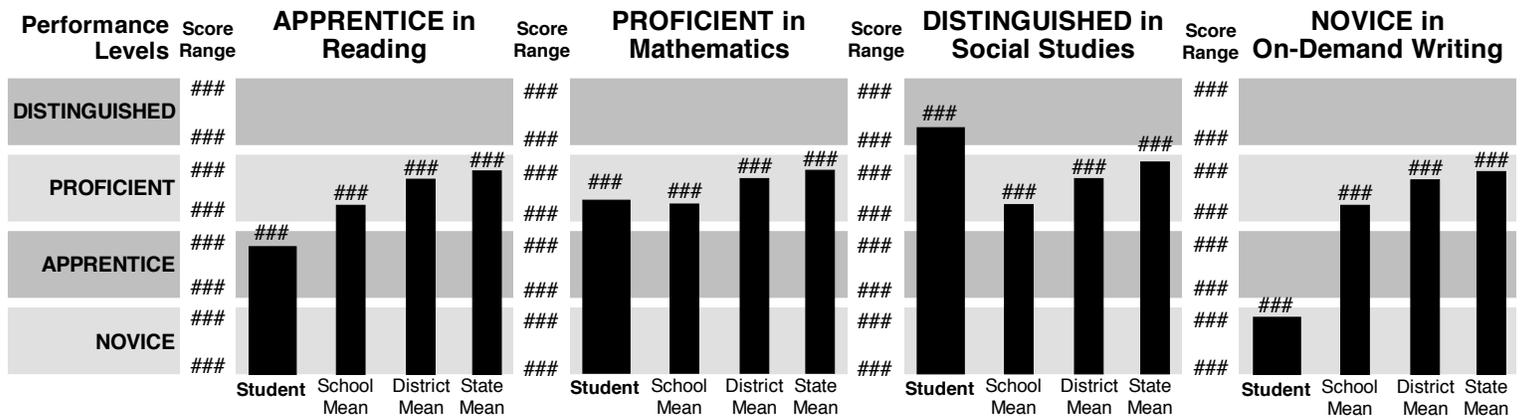
About the Student's Performance Levels

Reading Performance Level: APPRENTICE	Social Studies Performance Level: DISTINGUISHED
(PLD prints here)	(PLD prints here)
Mathematics Performance Level: PROFICIENT	**On-Demand Writing Performance Level: NOVICE**
(PLD prints here)	(PLD prints here)

For further information,
visit the Kentucky Department of Education online at **www.education.ky.gov.**

K-PREP Student Results (continued)

Student's Growth Percentile

Growth is a way to view student performance. High or low performers may have high or low growth. Last year's test in reading and mathematics grouped your student and others with similar test scores. Using this year's test, your student is compared to his/her group and a Student Growth Percentile (SGP) is created. The SGP shows how your student kept pace or fell behind his/her group. Kentucky considers a 40 or higher SGP as meeting the goal of yearly growth.

Subject	Student Growth Percentile	Student At or Above Typical Yearly Growth	Description
Reading	##	Yes	The SGP shows the student's growth ranking as compared to other students in his or her group. For example, a SGP of 75 means the student grew more than 75% of his/her group. Your student meets the goal of yearly growth.
Mathematics	##	No	The SGP shows the student's growth ranking as compared to other students in his or her group. For example, a 75 SGP means the student grew more than 75% of his/her group. Your student does not meet the goal of yearly growth.

Student's Lexile/Quantile Measures

Student's Lexile® measure: #####L

A student receives a Lexile reader measure as a score from a reading test - it describes his or her reading ability. Books and other texts receive a Lexile text measure from a software tool called the Lexile Analyzer - it describes the book's reading demand or difficulty. Visit **www.Lexile.com**. On the homepage, click Educators and then click Lexile Book Database where you will be able to search for books by Lexile range, keyword, title, author or ISBN.

Student's Quantile® measure: #####Q

The Quantile Framework uses a Quantile measure to describe a student's mathematical achievement, and the difficulty of specific mathematical skills and concepts. Visit **www.Quantiles.com** and click on the "Math at Home" section for more information.

Stanford 10 National Assessment Ranking

Students also took the Stanford 10, a nationally normed assessment. The chart below lists the subject and the student's ranking as compared to other students across the nation. For example, a ranking of 75 in the chart below would mean that the student scored as well or better than 75% of the students tested across the nation.

Subject	National Percentile Ranking	Description	Supporting Activities
Reading	68	In reading, the student did as well as or better than 68% of students nationally.	**Support Reading -** Encourage students to read at home. Choose books that are a good match for the student's interests. See the Lexile® information and website above for help in choosing books appropriate to the student's reading level.
Mathematics	NA	Not Attempted	**Support Mathematics -** Help students identify and explore mathematics in everyday activities. Involve them in measuring and calculating in cooking, projects around the home, and while shopping. Play games that use geometric shapes or require reasoning and memory skills.
Social Studies	72	In social studies, the student did as well as or better than 72% of students nationally.	**Support Social Studies -** Help students read, draw, and talk about maps and directions. Encourage students to read newspapers, magazines, and biographies and other informational books about history. Discuss current events, history, and government and leaders in your community, state, and nation.

For further information,
visit the Kentucky Department of Education online at **www.education.ky.gov.**

TESTED STUDENTS SCHOOL LISTING

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999999**

School: **SCHOOL NAME**

District: **DISTRICT NAME**

GRADE 5

Student Name	Student ID	Accommodated	Alternate K-PREP[1]	Reading Performance Level[2]	Reading Scale Score[3]	Reading SGP[4]	Reading NPR[5]	Reading Lexile[6]	Mathematics Performance Level[2]	Mathematics Scale Score[3]	Mathematics SGP[4]	Mathematics NPR[5]	Mathematics Quantile[7]	Social Studies Performance Level[2]	Social Studies Scale Score[3]	Social Studies NPR[5]	On-Demand Writing Performance Level[2]	On-Demand Writing Scale Score[3]
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y	B	P	###	##			P	###	##			P	###		P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	A	###	##*	##	#####Q	A	###	##	A	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##	NA	#####L	N	###	##	NA	#####Q	N	###	NA	N	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	N	###	##	##	#####Q	N	###	##	A	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		P	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##	NA	#####L	A	###	##*	NA	#####Q	A	###	NA	A	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	N	###	##	##	#####Q	N	###	##	N	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		N	###	##	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##	NA	#####L	P	###	##*	NA	#####Q	P	###	NA	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##	##	BR###L	N	###	##	##	EM###Q	N	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###

[1] A = Dimension A; B = Dimension B

[2] The performance level designations are D = Distinguished, P = Proficient, A = Apprentice and N = Novice

[3] Alternate K-PREP reports total score

[4] Student Growth Percentile; * = Student is At or Above Typical Yearly Growth; Blank indicates Student Growth Percentile is not available.

[5] National Percentile Ranking for the NRT portion of the test; NA represents Not Attempted

[6] Lexile measure of BR = Beginning Reader

[7] Quantile measure of EM = Emerging Mathematician

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999999**

School: **SCHOOL NAME**

District: **DISTRICT NAME**

GRADE 5

Student Name	Student ID	Accommodated	Alternate K-PREP[1]	Reading Performance Level[2]	Scale Score[3]	SGP[4]	NPR[5]	Lexile[6]	Mathematics Performance Level[2]	Scale Score[3]	SGP[4]	NPR[5]	Quantile[7]	Social Studies Performance Level[2]	Scale Score[3]	NPR[5]	On-Demand Writing Performance Level[2]	Scale Score[3]
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y	B	P	###	##			P	###	##			P	###		P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	A	###	##*	##	#####Q	A	###	##	A	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##	NA	#####L	N	###	##	NA	#####Q	N	###	NA	N	###
LASTNAME, FIRSTNAME, I.	9999999999			---EXEMPTED--														
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		P	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##	NA	#####L	A	###	##*	NA	#####Q	A	###	NA	A	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	N	###	##	##	#####Q	N	###	##	N	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999	Y		N	###	##	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999			N	###	##	NA	#####L	P	###	##*	NA	#####Q	P	###	NA	P	###
LASTNAME, FIRSTNAME, I.	9999999999			D	###	##*	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###
LASTNAME, FIRSTNAME, I.	9999999999			P	###	##*	##	#####L	P	###	##*	##	#####Q	P	###	##	P	###
LASTNAME, FIRSTNAME, I.	9999999999			A	###	##	##	#####L	D	###	##*	##	#####Q	D	###	##	D	###

Number of Standard Assessed:	####	Number of Exempted:	1
Number of Alternate Assessed:	####	Total Number of Students:	####

[1] A = Dimension A; B = Dimension B

[2] The performance level designations are D = Distinguished, P = Proficient, A = Apprentice and N = Novice

[3] Alternate K-PREP reports total score

[4] Student Growth Percentile; * = Student is At or Above Typical Yearly Growth; Blank indicates Student Growth Percentile is not available.

[5] National Percentile Ranking for the NRT portion of the test; NA represents Not Attempted

[6] Lexile measure of BR = Beginning Reader

[7] Quantile measure of EM = Emerging Mathematician

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2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999999**

School: **SCHOOL NAME**

District: **DISTRICT NAME**

Grade 4 Language Mechanics

Stanford 10 – Percent of Students Scoring by National Quarters

Stanford 10 National Percentile Ranks (NPRs) can be organized into national quarters based on the 2007 norming study. Quarters combine NPRs into four national groups of equal size, each group (or quarter) containing 25% of the national sample. Quarter 1 is the lowest performing group, and Quarter 4 is the highest performing group.

Stanford 10 National Quarter	Percent of Students			
	School	District	State	Nation
Quarter 1 (1 - 24 Percentile)	###.#	###.#	###.#	###.#
Quarter 2 (25 - 49 Percentile)	###.#	###.#	###.#	###.#
Quarter 3 (50 - 74 Percentile)	###.#	###.#	###.#	###.#
Quarter 4 (75 - 99 Percentile)	###.#	###.#	###.#	###.#

Alternate K-PREP students are not included in Percent of Students Scoring by National Quarters on Stanford 10.
Percent of Students Scoring by National Quarters does not include students that did not attempt the Stanford 10 subtest.

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999999**

School: **SCHOOL NAME**

District: **DISTRICT NAME**

Grade 6 Mathematics

Percent of Students by Performance Level

Performance Level	Number Students Tested	Percent of Students		
		School	District	State
Novice	#,###	###.#	###.#	###.#
Apprentice	#,###	###.#	###.#	###.#
Proficient	#,###	###.#	###.#	###.#
Distinguished	#,###	###.#	###.#	###.#
Total	#,###			

Performance by Reporting Category

Each content area has been further divided into reporting categories to provide more detail about your school performance. The specific reporting categories have been analyzed for statistical significance to create a status by category. The status is Needs Work or On Track. Remember your formative system needs to supplement how your students are performing on these content areas.

Reporting Category	Status	Status Description
Ratios and Proportional Relationships	Needs Work	On average, your school's students need additional attention on this content skill.
The Number System	On Track	On average, your school's students are performing well on this content skill.
Expressions and Equations	On Track	On average, your school's students are performing well on this content skill.
Geometry	Needs Work	On average, your school's students need additional attention on this content skill.
Statistics and Probability	On Track	On average, your school's students are performing well on this content skill.

Stanford 10 – Percent of Students Scoring by National Quarters

Stanford 10 National Percentile Ranks (NPRs) can be organized into national quarters based on the 2007 norming study. Quarters combine NPRs into four national groups of equal size, each group (or quarter) containing 25% of the national sample. Quarter 1 is the lowest performing group, and Quarter 4 is the highest performing group.

Stanford 10 National Quarter	Percent of Students			
	School	District	State	Nation
Quarter 1 (1 - 24 Percentile)	###.#	###.#	###.#	###.#
Quarter 2 (25 - 49 Percentile)	###.#	###.#	###.#	###.#
Quarter 3 (50 - 74 Percentile)	###.#	###.#	###.#	###.#
Quarter 4 (75 - 99 Percentile)	###.#	###.#	###.#	###.#

Alternate K-PREP students are included in Performance Level but not in Reporting Category and Percent of Students Scoring by National Quarters on Stanford 10.
Percent of Students Scoring by National Quarters does not include students that did not attempt the Stanford 10 subtest.

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999999**

School: **SCHOOL NAME**

District: **DISTRICT NAME**

Grade 11 On-Demand Writing

Percent of Students by Performance Level

Performance Level	Number Students Tested	Percent of Students		
		School	District	State
Novice	#,###	###.#	###.#	###.#
Apprentice	#,###	###.#	###.#	###.#
Proficient	#,###	###.#	###.#	###.#
Distinguished	#,###	###.#	###.#	###.#
Total	#,###			

Alternate K-PREP students are included in Performance Level.

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TESTED STUDENTS DISTRICT SUMMARY

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999**

District: **DISTRICT NAME**

Grade 4 Language Mechanics

DISTRICT NAME

| School Name | Code | Percent in Each National Quarter | | | |
		Quarter 1 (1 - 24%'tile)	Quarter 2 (25 - 49%'tile)	Quarter 3 (50 - 74%'tile)	Quarter 4 (75 - 99%'tile)
		Percent of Students			
Nation		###.#	###.#	###.#	###.#
State		###.#	###.#	###.#	###.#
District		###.#	###.#	###.#	###.#
School Name 1	######	###.#	###.#	###.#	###.#
School Name 2	######	###.#	###.#	###.#	###.#
School Name 3	######	###.#	###.#	###.#	###.#
School Name 4	######	###.#	###.#	###.#	###.#
School Name 5	######	###.#	###.#	###.#	###.#
School Name 6	######	###.#	###.#	###.#	###.#
School Name 7	######	###.#	###.#	###.#	###.#
School Name 8	######	###.#	###.#	###.#	###.#
School Name 9	######	###.#	###.#	###.#	###.#
School Name 10	######	###.#	###.#	###.#	###.#
School Name 11	######	###.#	###.#	###.#	###.#
School Name 12	######	###.#	###.#	###.#	###.#
School Name 13	######	###.#	###.#	###.#	###.#
School Name 14	######	###.#	###.#	###.#	###.#
School Name 15	######	###.#	###.#	###.#	###.#

Alternate K-PREP students are not included in Percent in Each National Quarter.

Percent in Each National Quarter does not include students that did not attempt the Stanford 10 subtest.

Stanford 10 National Percentile Ranks (NPRs) are organized into national quarters based on the 2007 norming study.

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999**

District: **DISTRICT NAME**

Grade 6 Mathematics

DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Performance Level — Percent of Students — Novice	Apprentice	Proficient	Distinguished	Reporting Category[1] — Status — Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability	Percent in Each National Quarter — Percent of Students — Quarter 1 (1 - 24%'tile)	Quarter 2 (25 - 49%'tile)	Quarter 3 (50 - 74%'tile)	Quarter 4 (75 - 99%'tile)
Nation													###.#	###.#	###.#	###.#
State		###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District		###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	NW	###.#	###.#	###.#	###.#
School Name 1	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 2	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 3	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 4	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW	###.#	###.#	###.#	###.#
School Name 5	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 6	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 7	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 8	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 9	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 10	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 11	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 12	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 13	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 14	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 15	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#

1 Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category

Alternate K-PREP students are included in Performance Level but not in Reporting Category and Percent in Each National Quarter.

Percent in Each National Quarter does not include students that did not attempt the Stanford 10 subtest.

Stanford 10 National Percentile Ranks (NPRs) are organized into national quarters based on the 2007 norming study.

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999**

District: **DISTRICT NAME**

Grade 6 Mathematics

DISTRICT NAME

School Name	Code	Number Students Tested	Total Mathematics Scale Score	Novice	Apprentice	Proficient	Distinguished	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability	Quarter 1 (1 - 24%'tile)	Quarter 2 (25 - 49%'tile)	Quarter 3 (50 - 74%'tile)	Quarter 4 (75 - 99%'tile)
				Percent of Students				Status					Percent of Students			
Nation													###.#	###.#	###.#	###.#
State		###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District		###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 1	######	9	****	****	****	****	****	****	****	****	****	****	****	****	****	****
School Name 2	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 3	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 4	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT	NW	###.#	###.#	###.#	###.#
School Name 5	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 6	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 7	######	40	****	****	****	****	****	****	****	****	****	****	****	****	****	****
School Name 8	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 9	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 10	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 11	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 12	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	NW	OT	###.#	###.#	###.#	###.#
School Name 13	######	9	****	****	****	****	****	****	****	****	****	****	****	****	****	****
School Name 14	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 15	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	NW	OT	###.#	###.#	###.#	###.#

1 Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category

Alternate K-PREP students are included in Performance Level but not in Reporting Category and Percent in Each National Quarter.

Percent in Each National Quarter does not include students that did not attempt the Stanford 10 subtest.

**** In order to protect student identification required by the Family Educational Rights and Privacy ACT (FERPA), performance results are suppressed for groups with fewer than 10 students or groups that scored at the same performance level.

Stanford 10 National Percentile Ranks (NPRs) are organized into national quarters based on the 2007 norming study.

Grade 6 Reading

DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Total Reading	Novice	Apprentice	Proficient	Distinguished	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition	Quarter 1 (1 - 24%'tile)	Quarter 2 (25 - 49%'tile)	Quarter 3 (50 - 74%'tile)	Quarter 4 (75 - 99%'tile)
					Performance Level — Percent of Students				**Reporting Category[1]** — Status				**Percent in Each National Quarter** — Percent of Students			
Nation													###.#	###.#	###.#	###.#
State		###,###	###		###.#	###.#	###.#	###.#	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District		###,###	###		###.#	###.#	###.#	###.#	NW	OT	OT	NW	###.#	###.#	###.#	###.#
School Name 1	######	###,###	###		###.#	###.#	###.#	###.#	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 2	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 3	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 4	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	OT	NW	###.#	###.#	###.#	###.#
School Name 5	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 6	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 7	######	###,###	###		###.#	###.#	###.#	###.#	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 8	######	###,###	###		###.#	###.#	###.#	###.#	NW	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 9	######	###,###	###		###.#	###.#	###.#	###.#	NW	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 10	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 11	######	###,###	###		###.#	###.#	###.#	###.#	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 12	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	NW	OT	###.#	###.#	###.#	###.#
School Name 13	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	OT	OT	###.#	###.#	###.#	###.#
School Name 14	######	###,###	###		###.#	###.#	###.#	###.#	OT	NW	OT	OT	###.#	###.#	###.#	###.#
School Name 15	######	###,###	###		###.#	###.#	###.#	###.#	OT	OT	NW	OT	###.#	###.#	###.#	###.#

1 Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category
Alternate K-PREP students are included in Performance Level but not in Reporting Category and Percent in Each National Quarter.
Percent in Each National Quarter does not include students that did not attempt the Stanford 10 subtest.
Stanford 10 National Percentile Ranks (NPRs) are organized into national quarters based on the 2007 norming study.

TESTED STUDENTS DISTRICT SUMMARY

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999**

District: **DISTRICT NAME**

Grade 11 On-Demand Writing

DISTRICT NAME

School Name	Code	Number Students Tested	Scale Score	Total - On-Demand Writing	Novice	Apprentice	Proficient	Distinguished
					Performance Level			
					Percent of Students			
Nation								
State		###,###	###		###.#	###.#	###.#	###.#
District		###,###	###		###.#	###.#	###.#	###.#
School Name 1	######	###,###	###		###.#	###.#	###.#	###.#
School Name 2	######	###,###	###		###.#	###.#	###.#	###.#
School Name 3	######	###,###	###		###.#	###.#	###.#	###.#
School Name 4	######	###,###	###		###.#	###.#	###.#	###.#
School Name 5	######	###,###	###		###.#	###.#	###.#	###.#
School Name 6	######	###,###	###		###.#	###.#	###.#	###.#
School Name 7	######	###,###	###		###.#	###.#	###.#	###.#
School Name 8	######	###,###	###		###.#	###.#	###.#	###.#
School Name 9	######	###,###	###		###.#	###.#	###.#	###.#
School Name 10	######	###,###	###		###.#	###.#	###.#	###.#
School Name 11	######	###,###	###		###.#	###.#	###.#	###.#
School Name 12	######	###,###	###		###.#	###.#	###.#	###.#
School Name 13	######	###,###	###		###.#	###.#	###.#	###.#
School Name 14	######	###,###	###		###.#	###.#	###.#	###.#
School Name 15	######	###,###	###		###.#	###.#	###.#	###.#

Alternate K-PREP students are included in Performance Level.

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2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999**

State: **Commonwealth of Kentucky**

Grade 6 Mathematics

District Name	Code	Number Students Tested	Scale Score	Performance Level — Percent of Students				Reporting Category[1] — Status					Percent in Each National Quarter — Percent of Students			
				Novice	Apprentice	Proficient	Distinguished	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability	Quarter 1 (1 - 24%'tile)	Quarter 2 (25 - 49%'tile)	Quarter 3 (50 - 74%'tile)	Quarter 4 (75 - 99%'tile)
Nation													###.#	###.#	###.#	###.#
State		###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 1	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 2	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 3	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
District Name 4	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 5	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW	###.#	###.#	###.#	###.#
District Name 6	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 7	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT	###.#	###.#	###.#	###.#
District Name 8	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 9	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 10	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
District Name 11	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 12	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 13	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT	###.#	###.#	###.#	###.#
District Name 14	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 15	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 16	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW	###.#	###.#	###.#	###.#
District Name 17	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#

1 Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category
Alternate K-PREP students are included in Performance Level but not in Reporting Category and Percent in Each National Quarter.
Percent in Each National Quarter does not include students that did not attempt the Stanford 10 subtest.
Stanford 10 National Percentile Ranks (NPRs) are organized into national quarters based on the 2007 norming study.

2017 Kentucky Performance Rating for Educational Progress (K-PREP)

Code: **999**

State: **Commonwealth of Kentucky**

Grade 6 Mathematics

District Name	Code	Number Students Tested	Scale Score	Performance Level (Percent of Students)				Reporting Category[1] (Status)					Percent in Each National Quarter (Percent of Students)			
				Novice	Apprentice	Proficient	Distinguished	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability	Quarter 1 (1 - 24%'tile)	Quarter 2 (25 - 49%'tile)	Quarter 3 (50 - 74%'tile)	Quarter 4 (75 - 99%'tile)
Nation													###.#	###.#	###.#	###.#
State		###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 1	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 2	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 3	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
District Name 4	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 5	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT	###.#	###.#	###.#	###.#
District Name 6	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 7	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 8	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	NW	###.#	###.#	###.#	###.#
District Name 9	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 10	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 11	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	NW	OT	OT	###.#	###.#	###.#	###.#
District Name 12	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 13	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 14	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	OT	OT	###.#	###.#	###.#	###.#
District Name 15	######	###,###	###	###.#	###.#	###.#	###.#	OT	NW	NW	OT	OT	###.#	###.#	###.#	###.#
District Name 16	######	###,###	###	###.#	###.#	###.#	###.#	OT	OT	OT	NW	OT	###.#	###.#	###.#	###.#
District Name 17	######	###,###	###	###.#	###.#	###.#	###.#	NW	OT	OT	OT	OT	###.#	###.#	###.#	###.#

1 Reporting Category OT = On Track - Students should continue working on this category; NW = Needs Work - Students need additional work on this category

Alternate K-PREP students are included in Performance Level but not in Reporting Category and Percent in Each National Quarter.

Percent in Each National Quarter does not include students that did not attempt the Stanford 10 subtest.

Stanford 10 National Percentile Ranks (NPRs) are organized into national quarters based on the 2007 norming study.

Appendix C. Item Mean Summaries

Operational

Multiple-choice

Subject	Grade	$p<0.30$	$0.30=<p<0.55$	$0.55=<p<0.75$	$0.75=<p<0.95$	$p>=0.95$	Mean p	N
Reading	3	--	10	9	17	--	0.68	36
	4	--	11	14	10	1	0.64	36
	5	1	14	15	9	--	0.60	39
	6	--	19	17	5	1	0.58	42
	7	2	22	11	7	--	0.56	41
	8	2	13	16	11	--	0.61	42
Mathematics	3	--	11	16	17	--	0.65	44
	4	--	12	23	9	--	0.61	44
	5	4	16	22	2	--	0.53	44
	6	3	16	18	7	--	0.57	44
	7	1	31	10	2	--	0.50	44
	8	1	16	23	4	--	0.58	44
Social Studies	5	--	4	36	4	--	0.64	44
	8	--	8	30	6	--	0.64	44
Language Mechanics	4	--	--	20	10	--	0.71	30
	6	--	2	16	12	--	0.70	30

Constructed Response

Subject	Grade	Short Answer				Extended Response			
		N	Mean	Min	Max	N	Mean	Min	Max
Reading	3	2	1.07	1.02	1.12	-	--	--	--
	4	2	0.59	0.35	0.83	1	1.47	--	--
	5	2	0.82	0.74	0.90	1	1.68	--	--
	6	2	0.65	0.54	0.75	1	1.72	--	--
	7	2	0.85	0.72	0.97	1	2.18	--	--
	8	2	0.89	0.88	0.90	1	2.39	--	--
Mathematics	3	3	0.79	0.37	1.12	-	--	--	--
	4	3	0.74	0.63	0.86	1	1.48	--	--
	5	3	0.71	0.49	0.99	1	1.38	--	--
	6	3	1.03	0.82	1.39	1	1.04	--	--

	7	3	0.44	0.20	0.58	1	1.52	--	--
	8	3	0.81	0.55	1.01	1	1.94	--	--
Social	5	-	--	--	--	3	1.89	1.62	2.13
Studies	8	-	--	--	--	3	2.33	2.26	2.44

Appendix D. Item-Total Correlation Summaries

Operational

Multiple-choice

Subject	Grade	r<0.20	0.20=<r<0.40	0.40=<r<0.60	0.60=<r<0.80	r>=0.80	Median Pt.Bis	N
Reading	3	2	12	22	--	--	0.42	36
	4	--	19	17	--	--	0.39	36
	5	1	19	19	--	--	0.39	39
	6	1	32	9	--	--	0.35	42
	7	3	23	15	--	--	0.37	41
	8	2	17	23	--	--	0.41	42
Mathematics	3	--	18	26	--	--	0.41	44
	4	--	18	26	--	--	0.40	44
	5	2	20	22	--	--	0.40	44
	6	4	17	23	--	--	0.40	44
	7	--	17	27	--	--	0.43	44
	8	1	16	26	1	--	0.44	44
Social Studies	5	--	16	28	--	--	0.42	44
	8	--	8	36	--	--	0.46	44
Language Mechanics	4	--	6	24	--	--	0.46	30
	6	--	6	24	--	--	0.47	30

Constructed Response

Subject	Grade	Short Answer				Extended Response			
		N	Median r	Min r	Max r	N	Median r	Min r	Max r
Reading	3	2	0.36	0.28	0.43	-	--	--	--
	4	2	0.42	0.32	0.52	1	0.56	--	--
	5	2	0.38	0.26	0.50	1	0.53	--	--
	6	2	0.43	0.36	0.49	1	0.55	--	--
	7	2	0.43	0.40	0.45	1	0.58	--	--
	8	2	0.47	0.41	0.52	1	0.57	--	--
Mathematics	3	3	0.48	0.39	0.58	-	--	--	--
	4	3	0.56	0.42	0.59	1	0.63	--	--
	5	3	0.48	0.46	0.51	1	0.59	--	--
	6	3	0.54	0.43	0.60	1	0.61	--	--
	7	3	0.50	0.39	0.64	1	0.70	--	--
	8	3	0.59	0.59	0.65	1	0.71	--	--
Social Studies	5	-	--	--	--	3	0.53	0.47	0.59
	8	-	--	--	--	3	0.56	0.44	0.56

Appendix E. Differential Item Functioning Summaries

Operational

Reading

Grade	Subgroups	DIF Categories					
		Negligible DIF		Moderate DIF		Substantial DIF	
		Focal	Reference	Focal	Reference	Focal	Reference
3	Male-Female	17	21	--	--	--	--
	White-Black	20	17	--	1	--	--
	White-Hispanic	20	16	--	1	--	1
4	Male-Female	22	16	--	1	--	--
	White-Black	20	18	--	1	--	--
	White-Hispanic	21	17	--	--	--	1
5	Male-Female	16	23	2	--	--	1
	White-Black	21	20	--	--	--	1
	White-Hispanic	22	20	--	--	--	--
6	Male-Female	18	25	2	--	--	--
	White-Black	24	21	--	--	--	--
	White-Hispanic	26	18	--	1	--	--
7	Male-Female	17	26	1	1	--	--
	White-Black	24	21	--	--	--	--
	White-Hispanic	25	20	--	--	--	--
8	Male-Female	18	24	2	1	--	--
	White-Black	23	22	--	--	--	--
	White-Hispanic	20	25	--	--	--	--

Note: 'Focal' indicates DIF in favor of Female, Black, or Hispanic students; 'Reference' indicates DIF in favor of Male or White students.

Mathematics

Grade	Subgroups	DIF Categories					
		Negligible DIF		Moderate DIF		Substantial DIF	
		Focal	Reference	Focal	Reference	Focal	Reference
3	Male-Female	21	25	1	--	--	--
	White-Black	21	26	--	--	--	--
	White-Hispanic	24	23	--	--	--	--
4	Male-Female	25	23	--	--	--	--
	White-Black	21	27	--	--	--	--
	White-Hispanic	27	20	--	1	--	--
5	Male-Female	29	18	--	1	--	--
	White-Black	25	22	--	1	--	--
	White-Hispanic	27	20	--	1	--	--
6	Male-Female	27	21	--	--	--	--
	White-Black	23	24	--	1	--	--
	White-Hispanic	23	25	--	--	--	--
7	Male-Female	23	23	--	1	1	--
	White-Black	23	25	--	--	--	--
	White-Hispanic	27	21	--	--	--	--
8	Male-Female	24	24	--	--	--	--
	White-Black	22	25	1	--	--	--
	White-Hispanic	26	22	--	--	--	--

Note: 'Focal' indicates DIF in favor of Female, Black, or Hispanic students; 'Reference' indicates DIF in favor of Male or White students.

Social Studies

Grade	Subgroups	DIF Categories					
		Negligible DIF		Moderate DIF		Substantial DIF	
		Focal	Reference	Focal	Reference	Focal	Reference
5	Male-Female	23	23	--	1	--	--
	White-Black	25	22	--	--	--	--
	White-Hispanic	26	20	--	1	--	--
8	Male-Female	17	25	2	2	1	--
	White-Black	28	19	--	--	--	--
	White-Hispanic	26	20	--	1	--	--

Note: 'Focal' indicates DIF in favor of Female, Black, or Hispanic students; 'Reference' indicates DIF in favor of Male or White students.

Appendix F. Item Response Theory Parameter Summary

Operational

Subject	Grade	No. of Items	Item Difficulty					Infit				Outfit			
			Min.	P25	Median	P75	Max.	<0.5	0.5<=Infit<1.5	1.5<=Infit<2.0	>2.0	<0.5	0.5<=Outfit<1.5	1.5<=Outfit<2.0	>2.0
Reading	3	38	-2.5152	-1.0917	-0.3877	0.6012	1.7781	-	38	-	-	-	38	-	-
	4	39	-2.8083	-0.8066	-0.0768	0.9960	2.4827	-	39	-	-	-	39	-	-
	5	42	-1.9822	-0.3541	0.3691	1.0256	2.2571	-	42	-	-	-	41	1	-
	6	45	-2.8392	0.2382	0.6339	1.0784	1.8382	-	45	-	-	-	45	-	-
	7	44	-1.7264	-0.1541	0.5252	0.9197	1.8618	-	44	-	-	-	44	-	-
	8	45	-1.6981	-0.4214	0.1553	1.0252	1.9333	-	45	-	-	-	44	1	-
Mathematics	3	47	-1.7088	-0.7709	0.1636	0.8290	2.3802	-	47	-	-	-	46	1	-
	4	48	-1.9378	-0.5945	-0.0752	0.8422	1.4611	-	48	-	-	-	48	-	-
	5	48	-1.3565	-0.3217	0.3087	1.0514	2.7809	-	48	-	-	-	47	-	1
	6	48	-2.1872	-0.6247	0.0388	0.8122	1.9322	-	48	-	-	-	45	3	-
	7	48	-1.8484	-0.1764	0.2032	0.5317	3.0330	-	48	-	-	-	48	-	-
	8	48	-1.8477	-0.2983	0.0909	0.4754	1.5380	-	48	-	-	-	48	-	-

Appendix G. Raw Score to Scale Score Tables

Grade 3 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	127	17
2	140	12
3	147	10
4	153	9
5	157	8
6	161	8
7	165	7
8	168	7
9	171	7
10	173	7
11	176	6
12	178	6
13	181	6
14	183	6
15	185	6
16	187	6
17	189	6
18	191	6
19	193	6
20	195	6
21	197	6
22	199	6
23	201	6
24	203	6
25	205	6
26	208	6
27	210	6
28	212	6

Raw Score	Scale Score	Conditional SEM
29	214	6
30	217	7
31	220	7
32	222	7
33	225	7
34	229	8
35	233	8
36	237	9
37	243	10
38	250	12
39	263	17
40	286	34

Grade 3 Reading-Braille

Raw Score	Scale Score	Conditional SEM
0	100	34
1	127	17
2	140	12
3	148	10
4	153	9
5	158	8
6	162	8
7	165	7
8	168	7
9	171	7
10	174	7
11	177	6

Raw Score	Scale Score	Conditional SEM
12	179	6
13	181	6
14	184	6
15	186	6
16	188	6
17	190	6
18	192	6
19	194	6
20	197	6
21	199	6
22	201	6
23	203	6
24	205	6
25	207	6
26	210	6
27	212	6
28	215	7
29	218	7
30	220	7
31	224	7
32	227	8
33	231	8
34	236	9
35	241	10
36	249	12
37	261	17
38	285	34

Grade 4 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	126	17
2	138	13
3	146	11
4	152	9
5	157	9
6	161	8
7	165	8
8	168	7
9	171	7
10	174	7
11	177	7
12	179	6
13	182	6
14	184	6
15	186	6
16	188	6
17	191	6
18	193	6
19	195	6
20	197	6
21	199	6
22	201	6
23	203	6
24	205	6
25	207	6
26	209	6
27	211	6
28	213	6
29	215	6
30	218	6
31	220	6
32	222	6
33	225	7
34	228	7
35	231	7
36	234	7
37	237	8
38	241	8
39	245	9
40	250	9
41	256	11
42	264	13
43	277	17
44	300	34

Grade 5 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	134	17
2	147	12
3	154	10
4	160	9
5	164	8
6	168	8
7	171	7
8	174	7
9	177	7
10	179	6
11	182	6
12	184	6
13	186	6
14	188	6
15	190	6
16	192	6
17	194	6
18	196	5
19	197	5
20	199	5
21	201	5
22	203	5
23	204	5
24	206	5
25	208	5
26	210	5
27	212	5
28	213	6
29	215	6
30	217	6
31	219	6
32	221	6
33	223	6
34	225	6
35	228	6
36	230	6
37	233	7
38	235	7
39	238	7
40	241	7
41	245	8
42	249	8
43	253	9
44	259	10
45	267	12

Raw Score	Scale Score	Conditional SEM
46	279	17
47	300	34

Grade 6 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	133	18
2	146	13
3	154	11
4	160	9
5	165	9
6	169	8
7	173	7
8	176	7
9	178	7
10	181	6
11	183	6
12	186	6
13	188	6
14	190	6
15	192	6
16	193	5
17	195	5
18	197	5
19	199	5
20	200	5
21	202	5
22	203	5
23	205	5
24	206	5
25	208	5
26	210	5
27	211	5
28	213	5
29	214	5
30	216	5
31	217	5
32	219	5
33	221	5
34	222	5
35	224	5
36	226	5
37	228	6
38	230	6
39	232	6
40	234	6
41	236	6
42	239	7
43	241	7
44	244	7
45	248	8
46	252	9
47	257	10
48	264	12
49	276	17
50	299	33

Grade 6 Reading–Braille

Raw Score	Scale Score	Conditional SEM
0	100	34
1	133	18
2	146	13
3	154	11
4	160	9
5	165	9
6	169	8
7	173	7
8	176	7
9	179	7
10	181	6
11	184	6
12	186	6
13	188	6
14	190	6
15	192	6
16	194	6
17	196	5
18	197	5
19	199	5
20	201	5
21	202	5
22	204	5
23	206	5
24	207	5
25	209	5
26	210	5
27	212	5
28	214	5
29	215	5
30	217	5
31	218	5
32	220	5
33	222	5
34	224	5
35	225	6

Raw Score	Scale Score	Conditional SEM
36	227	6
37	229	6
38	231	6
39	233	6
40	236	6
41	238	7
42	241	7
43	244	7
44	247	8
45	251	9
46	257	10
47	264	12
48	276	17
49	299	33

Grade 7 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	135	17
2	148	12
3	155	10
4	161	9
5	165	8
6	169	8
7	172	7
8	175	7
9	177	6
10	180	6
11	182	6
12	184	6
13	186	6
14	188	6
15	190	6
16	192	5
17	194	5
18	195	5
19	197	5
20	199	5
21	200	5
22	202	5
23	204	5
24	205	5
25	207	5
26	208	5
27	210	5
28	212	5
29	213	5
30	215	5
31	217	5
32	218	5
33	220	5
34	222	6
35	224	6
36	226	6
37	228	6
38	230	6
39	232	6
40	235	6
41	237	7
42	240	7
43	243	7
44	247	8
45	251	9
46	256	10
47	264	12
48	276	17
49	299	33

Grade 7 Reading-Braille

Raw Score	Scale Score	Conditional SEM
0	100	34
1	136	17
2	148	12
3	155	10
4	161	9
5	165	8
6	169	8
7	172	7
8	175	7
9	178	6
10	180	6
11	182	6
12	185	6
13	187	6
14	189	6
15	190	6
16	192	5
17	194	5
18	196	5
19	198	5
20	199	5
21	201	5
22	203	5
23	204	5
24	206	5

Raw Score	Scale Score	Conditional SEM
25	208	5
26	209	5
27	211	5
28	212	5
29	214	5
30	216	5
31	218	5
32	219	5
33	221	6
34	223	6
35	225	6
36	227	6
37	229	6
38	232	6
39	234	6
40	237	7
41	239	7
42	243	8
43	246	8
44	251	9
45	256	10
46	263	12
47	275	17
48	299	33

Grade 8 Reading

Raw Score	Scale Score	Conditional SEM
0	100	34
1	131	17
2	143	12
3	151	10
4	156	9
5	160	8
6	164	8
7	167	7
8	170	7
9	173	7
10	175	6
11	178	6
12	180	6
13	182	6
14	184	6
15	186	6
16	188	6
17	190	5
18	191	5
19	193	5
20	195	5
21	196	5
22	198	5
23	200	5
24	201	5
25	203	5
26	205	5
27	206	5
28	208	5
29	210	5
30	211	5
31	213	5
32	215	5
33	217	5
34	218	6
35	220	6
36	222	6

Raw Score	Scale Score	Conditional SEM
37	224	6
38	226	6
39	228	6
40	231	6
41	233	7
42	236	7
43	239	7
44	242	8
45	246	8
46	250	9
47	256	10
48	263	12
49	275	17
50	299	34

Grade 3 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	34
1	124	17
2	137	12
3	144	10
4	150	9
5	154	8
6	158	8
7	161	7
8	164	7
9	167	7
10	169	6
11	171	6
12	174	6
13	176	6
14	178	6

Raw Score	Scale Score	Conditional SEM
15	180	6
16	181	6
17	183	6
18	185	5
19	187	5
20	189	5
21	190	5
22	192	5
23	194	5
24	196	5
25	197	5
26	199	5
27	201	5
28	202	5
29	204	5
30	206	5
31	208	6
32	210	6
33	212	6
34	214	6
35	216	6
36	218	6
37	220	6
38	222	6
39	224	6
40	227	6
41	229	7
42	232	7
43	235	7
44	239	8
45	242	8
46	247	9
47	252	10

Raw Score	Scale Score	Conditional SEM
48	260	13
49	273	17
50	297	34

Grade 4 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	34
1	131	17
2	143	12
3	151	10
4	156	9
5	161	8
6	164	8
7	168	7
8	170	7
9	173	6
10	176	6
11	178	6
12	180	6
13	182	6
14	184	6
15	186	6
16	188	5
17	189	5
18	191	5
19	193	5
20	194	5
21	196	5
22	197	5
23	199	5
24	200	5

Raw Score	Scale Score	Conditional SEM
25	202	5
26	203	5
27	205	5
28	206	5
29	208	5
30	209	5
31	211	5
32	212	5
33	214	5
34	215	5
35	217	5
36	218	5
37	220	5
38	221	5
39	223	5
40	225	5
41	226	5
42	228	6
43	230	6
44	232	6
45	234	6
46	237	6
47	239	7
48	242	7
49	246	8
50	250	9
51	255	10
52	262	12
53	274	17
54	297	33

Grade 5 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	34
1	136	17
2	148	12
3	155	10
4	161	9
5	165	8
6	169	8
7	172	7
8	175	7
9	178	6
10	180	6
11	182	6
12	185	6
13	187	6
14	189	6
15	190	6
16	192	5
17	194	5
18	196	5
19	197	5
20	199	5
21	200	5
22	202	5
23	204	5
24	205	5
25	207	5
26	208	5
27	210	5
28	211	5
29	213	5
30	214	5

Raw Score	Scale Score	Conditional SEM
31	216	5
32	217	5
33	219	5
34	220	5
35	222	5
36	223	5
37	225	5
38	227	5
39	228	5
40	230	5
41	232	6
42	234	6
43	236	6
44	238	6
45	240	6
46	243	7
47	245	7
48	248	7
49	252	8
50	256	9
51	262	10
52	269	12
53	281	17
54	300	34

Grade 5 Mathematics-Braille

Raw Score	Scale Score	Conditional SEM
0	100	33
1	138	17
2	150	12

Raw Score	Scale Score	Conditional SEM
3	157	10
4	163	9
5	167	8
6	171	8
7	174	7
8	177	7
9	179	6
10	182	6
11	184	6
12	186	6
13	188	6
14	190	6
15	192	6
16	194	5
17	195	5
18	197	5
19	199	5
20	200	5
21	202	5
22	204	5
23	205	5
24	207	5
25	208	5
26	210	5
27	211	5
28	213	5
29	215	5
30	216	5
31	218	5
32	219	5
33	221	5
34	223	5
35	225	5

Raw Score	Scale Score	Conditional SEM
36	226	6
37	228	6
38	230	6
39	232	6
40	235	6
41	237	6
42	240	7
43	242	7
44	246	8
45	249	8
46	254	9
47	259	10
48	267	12
49	279	17
50	300	34

Grade 6 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	34
1	129	17
2	141	12
3	149	10
4	154	9
5	159	8
6	163	8
7	166	7
8	169	7
9	172	7
10	174	6
11	177	6
12	179	6
13	181	6
14	183	6
15	185	6
16	187	6
17	189	5
18	190	5
19	192	5
20	194	5
21	195	5
22	197	5
23	199	5
24	200	5
25	202	5
26	203	5
27	205	5
28	206	5
29	208	5
30	210	5
31	211	5
32	213	5
33	214	5
34	216	5
35	218	5
36	219	5
37	221	5
38	223	5
39	224	5
40	226	6
41	228	6
42	230	6
43	232	6
44	234	6
45	237	6
46	239	7
47	242	7
48	245	7
49	248	8
50	253	9
51	258	10
52	265	12
53	277	17
54	300	33

Grade 7 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	34
1	141	17
2	153	12
3	160	10
4	166	9
5	170	8
6	174	7
7	177	7
8	180	7
9	182	6
10	185	6
11	187	6
12	189	6
13	191	6
14	192	5
15	194	5
16	196	5
17	197	5
18	199	5
19	200	5

Raw Score	Scale Score	Conditional SEM
20	202	5
21	203	5
22	205	5
23	206	5
24	207	5
25	209	5
26	210	5
27	211	5
28	212	5
29	214	5
30	215	5
31	216	5
32	218	5
33	219	5
34	220	5
35	222	5
36	223	5
37	225	5
38	226	5
39	228	5
40	229	5
41	231	5
42	233	6
43	235	6
44	237	6
45	239	6
46	242	7
47	245	7
48	248	8
49	252	8
50	257	9
51	262	11
52	271	13

Raw Score	Scale Score	Conditional SEM
53	284	18
54	300	34

Grade 8 Mathematics

Raw Score	Scale Score	Conditional SEM
0	100	33
1	134	17
2	147	12
3	154	10
4	159	9
5	164	8
6	167	8
7	171	7
8	173	7
9	176	6
10	178	6
11	180	6
12	182	6
13	184	6
14	186	5
15	188	5
16	190	5
17	191	5
18	193	5
19	194	5
20	196	5
21	197	5
22	199	5
23	200	5
24	202	5
25	203	5

Raw Score	Scale Score	Conditional SEM
26	204	5
27	206	5
28	207	5
29	208	5
30	210	5
31	211	5
32	212	5
33	214	5
34	215	5
35	216	5
36	218	5
37	219	5
38	221	5
39	222	5
40	224	5
41	226	5
42	227	6
43	229	6
44	231	6
45	233	6
46	236	6
47	238	7
48	241	7
49	245	8
50	249	9
51	254	10
52	261	12
53	273	17
54	296	33

Grade 5 Social Studies

Raw Score	Scale Score	Conditional SEM
0	100	33
1	136	17
2	148	12
3	155	10
4	160	9
5	164	8
6	168	7
7	171	7
8	173	6
9	176	6
10	178	6
11	180	6
12	182	6
13	184	5
14	185	5
15	187	5
16	189	5
17	190	5
18	192	5
19	193	5
20	194	5
21	196	5
22	197	5
23	198	5
24	200	5
25	201	5
26	202	5
27	203	5
28	205	5
29	206	5
30	207	5
31	209	5
32	210	5
33	211	5
34	213	5
35	214	5
36	216	5
37	217	5
38	219	5
39	220	5
40	222	5
41	224	5
42	225	6
43	227	6
44	229	6
45	232	6
46	234	6
47	237	7
48	239	7
49	243	7
50	246	8
51	250	9
52	255	9
53	261	11
54	269	13
55	282	17
56	300	34

Grade 8 Social Studies

Raw Score	Scale Score	Conditional SEM
0	100	33
1	134	17
2	146	12
3	152	10
4	157	8
5	161	8
6	164	7
7	167	7
8	170	6
9	172	6
10	174	6
11	176	6
12	178	6
13	180	5
14	181	5
15	183	5
16	185	5
17	186	5
18	188	5
19	189	5
20	191	5
21	192	5
22	194	5
23	195	5
24	197	5
25	198	5
26	200	5
27	201	5
28	203	5
29	204	5
30	206	5
31	207	5
32	208	5
33	210	5
34	212	5

Raw Score	Scale Score	Conditional SEM
35	213	5
36	215	5
37	216	5
38	218	5
39	220	5
40	221	5
41	223	6
42	225	6
43	227	6
44	229	6
45	232	6
46	234	6
47	237	7
48	239	7
49	242	7
50	246	8
51	250	8
52	255	9
53	260	10
54	268	13
55	281	17
56	300	34

Grade 5 On Demand Writing

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	17
01	1	109	10
01	2	119	8
01	3	128	10
01	4	147	17
01	5	167	10
01	6	176	8
01	7	185	10
01	8	208	20
01	9	231	10
01	10	240	8
01	11	248	9
01	12	262	12
01	13	275	9
01	14	284	8
01	15	294	10
01	16	300	17
02	0	100	17
02	1	108	10
02	2	117	9
02	3	127	10
02	4	147	17
02	5	167	10
02	6	176	8
02	7	185	10
02	8	208	20
02	9	230	10
02	10	239	8
02	11	248	9
02	12	261	12
02	13	274	9
02	14	283	8
02	15	292	10
02	16	300	17

Grade 8 On Demand Writing

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	17
01	1	105	10
01	2	115	8
01	3	124	10
01	4	149	22
01	5	173	10
01	6	182	8
01	7	190	9
01	8	203	11
01	9	215	9
01	10	224	8
01	11	232	9
01	12	244	11
01	13	255	9
01	14	264	8
01	15	273	10
01	16	286	17
02	0	100	18
02	1	100	10
02	2	104	9
02	3	115	10
02	4	141	23
02	5	166	10
02	6	176	9

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
02	7	185	9
02	8	199	12
02	9	213	9
02	10	221	8
02	11	230	9
02	12	242	11
02	13	255	9
02	14	264	8
02	15	273	10
02	16	286	17

Grade 11 On Demand Writing

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	0	100	17
01	1	121	10
01	2	130	8
01	3	140	10
01	4	160	18
01	5	180	10
01	6	189	8
01	7	198	9
01	8	212	12

Writing Task Choice	Raw Score	Scale Score	Conditional SEM
01	9	226	9
01	10	235	8
01	11	244	9
01	12	261	15
01	13	278	10
01	14	287	8
01	15	297	10
01	16	300	17
02	0	100	17
02	1	124	10
02	2	133	8
02	3	142	10
02	4	162	17
02	5	181	10
02	6	190	8
02	7	199	9
02	8	213	12
02	9	227	9
02	10	236	9
02	11	246	10
02	12	262	14
02	13	279	9
02	14	288	8
02	15	297	10
02	16	300	17

Appendix H. Raw Score to Scale Score Tables— Subdomain

Grade 3 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.9737	100	34
	1	-3.4623	141	18
	2	-2.6014	155	14
	3	-2.0243	165	12
	4	-1.5573	173	11
	5	-1.1422	179	11
	6	-0.7492	186	10
	7	-0.3567	193	11
	8	0.0572	199	11
	9	0.5230	207	12
	10	1.0998	217	14
	11	1.9630	231	18
	12	3.4787	256	34
Craft and Structure	0	-4.3409	100	34
	1	-2.8562	151	18
	2	-2.0245	165	13
	3	-1.4714	174	12
	4	-1.0261	181	11
	5	-0.6339	188	10
	6	-0.2683	194	10
	7	0.0877	200	10
	8	0.4488	206	10
	9	0.8325	212	11
	10	1.2658	220	11
	11	1.8044	229	13
	12	2.6201	242	18
	13	4.0923	267	34
Integration of Ideas	0	-3.4162	100	34
	1	-1.8621	167	18

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	2	-0.9311	183	14
	3	-0.2690	194	13
	4	0.3048	204	12
	5	0.8679	213	13
	6	1.4991	223	14
	7	2.3828	238	18
	8	3.8946	263	34
Vocabulary and Acquisition	0	-3.7182	100	34
	1	-2.1421	163	19
	2	-1.1529	179	15
	3	-0.3860	192	14
	4	0.3537	204	15
	5	1.1663	218	16
	6	2.2298	236	19
	7	3.8668	263	35

Grade 3 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.9737	100	34
	1	-3.4623	141	18
	2	-2.6014	155	14
	3	-2.0243	165	12
	4	-1.5573	173	11
	5	-1.1422	179	11
	6	-0.7492	186	10
	7	-0.3567	193	11
	8	0.0572	199	11
	9	0.5230	207	12
	10	1.0998	217	14
	11	1.9630	231	18
	12	3.4787	256	34

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Craft and Structure	0	-4.3409	100	34
	1	-2.8562	151	18
	2	-2.0245	165	13
	3	-1.4714	174	12
	4	-1.0261	181	11
	5	-0.6339	188	10
	6	-0.2683	194	10
	7	0.0877	200	10
	8	0.4488	206	10
	9	0.8325	212	11
	10	1.2658	220	11
	11	1.8044	229	13
	12	2.6201	242	18
	13	4.0923	267	34
Integration of Ideas	0	-3.2544	100	34
	1	-1.6454	171	19
	2	-0.6188	188	15
	3	0.1723	201	14
	4	0.9442	214	15
	5	1.9207	230	19
	6	3.4820	257	34
Vocabulary and Acquisition	0	-3.7182	100	34
	1	-2.1421	163	19
	2	-1.1529	179	15
	3	-0.3860	192	14
	4	0.3537	204	15
	5	1.1663	218	16
	6	2.2298	236	19
	7	3.8668	263	35

Grade 4 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-5.1919	100	34
	1	-3.6451	137	18
	2	-2.7321	152	14
	3	-2.1015	162	12
	4	-1.5810	171	12
	5	-1.1121	179	11
	6	-0.6635	186	11
	7	-0.2119	194	11
	8	0.2661	202	12
	9	0.8033	211	13
	10	1.4626	222	15
	11	2.4239	238	19
	12	4.0235	264	35
Craft and Structure	0	-3.6524	100	35
	1	-2.0044	164	19
	2	-0.9761	181	15
	3	-0.2543	193	13
	4	0.3419	203	12
	5	0.8812	212	12
	6	1.4059	221	12
	7	1.9544	230	13
	8	2.5845	240	14
	9	3.4635	255	18
	10	4.9588	280	34
Integration of Ideas	0	-3.6646	100	34
	1	-2.1474	162	18
	2	-1.2800	176	14
	3	-0.6951	186	12
	4	-0.2154	194	11
	5	0.2207	201	11
	6	0.6474	208	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	1.0915	216	11
	8	1.5814	224	12
	9	2.1543	233	13
	10	2.8647	245	15
	11	3.8541	262	19
	12	5.4289	288	34
Vocabulary and Acquisition	0	-3.8753	100	34
	1	-2.3751	158	18
	2	-1.5195	172	14
	3	-0.9356	182	12
	4	-0.4479	190	11
	5	0.0053	197	11
	6	0.4612	205	11
	7	0.9570	213	12
	8	1.5546	223	14
	9	2.4296	238	18
	10	3.9480	263	34

Grade 5 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	0	-4.2038	100	34
	1	-2.7198	154	18
	2	-1.8906	168	13
	3	-1.3410	177	12
	4	-0.8988	184	11
Key Ideas	5	-0.5079	191	10
	6	-0.1404	197	10
	7	0.2222	203	10
	8	0.5969	209	10
	9	1.0038	216	11
	10	1.4749	224	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	11	2.0738	234	14
	12	2.9841	249	19
	13	4.5551	275	34
Craft and Structure	0	-3.8477	100	34
	1	-2.3348	160	18
	2	-1.4548	175	14
	3	-0.8367	185	12
	4	-0.3031	194	12
	5	0.2098	203	12
	6	0.7420	211	12
	7	1.3354	221	13
	8	2.0631	233	15
	9	3.1216	251	20
	10	4.8139	279	35
Integration of Ideas	0	-3.3898	100	34
	1	-1.9492	167	17
	2	-1.1736	180	13
	3	-0.6719	188	11
	4	-0.2716	195	10
	5	0.0832	200	10
	6	0.4190	206	10
	7	0.7523	212	10
	8	1.0958	217	10
	9	1.4617	223	10
	10	1.8641	230	11
	11	2.3236	238	12
	12	2.8834	247	13
	13	3.6955	261	17
	14	5.1307	285	33
Vocabulary and Acquisition	0	-3.9458	100	35
	1	-2.3274	160	19
	2	-1.3410	177	15
	3	-0.6567	188	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	4	-0.0900	198	12
	5	0.4284	206	12
	6	0.9410	215	12
	7	1.4879	224	13
	8	2.1322	235	14
	9	3.0500	250	18
	10	4.5974	276	34

Grade 6 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.7153	100	35
	1	-3.0542	146	19
	2	-2.0195	163	15
	3	-1.3181	175	13
	4	-0.7705	184	12
	5	-0.3063	192	11
	6	0.1127	199	11
	7	0.5102	205	10
	8	0.9034	212	10
	9	1.3076	219	11
	10	1.7449	226	11
	11	2.2640	235	13
	12	3.0273	247	17
	13	4.4296	271	33
Craft and Structure	0	-3.3351	100	34
	1	-1.8470	166	18
	2	-1.0144	180	13
	3	-0.4619	189	12
	4	-0.0149	197	11
	5	0.3855	203	10
	6	0.7713	210	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	1.1685	216	11
	8	1.6088	224	12
	9	2.1506	233	13
	10	2.9675	246	18
	11	4.4398	271	34
Integration of Ideas	0	-3.0382	100	34
	1	-1.5980	170	17
	2	-0.8215	183	13
	3	-0.3194	192	11
	4	0.0786	198	10
	5	0.4258	204	10
	6	0.7460	209	9
	7	1.0520	214	9
	8	1.3518	219	9
	9	1.6517	224	9
	10	1.9597	230	9
	11	2.2891	235	10
	12	2.6654	241	11
	13	3.1464	249	13
	14	3.9105	262	17
	15	5.3562	286	34
Vocabulary and Acquisition	0	-3.5934	100	34
	1	-2.0969	162	18
	2	-1.2485	176	14
	3	-0.6763	186	12
	4	-0.2071	193	11
	5	0.2171	201	11
	6	0.6278	207	11
	7	1.0505	214	11
	8	1.5167	222	12
	9	2.0848	232	13
	10	2.9279	246	18
	11	4.4197	271	34

Grade 6 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.7153	100	35
	1	-3.0542	146	19
	2	-2.0195	163	15
	3	-1.3181	175	13
	4	-0.7705	184	12
	5	-0.3063	192	11
	6	0.1127	199	11
	7	0.5102	205	10
	8	0.9034	212	10
	9	1.3076	219	11
	10	1.7449	226	11
	11	2.2640	235	13
	12	3.0273	247	17
	13	4.4296	271	33
Craft and Structure	0	-3.3351	100	34
	1	-1.8470	166	18
	2	-1.0144	180	13
	3	-0.4619	189	12
	4	-0.0149	197	11
	5	0.3855	203	10
	6	0.7713	210	10
	7	1.1685	216	11
	8	1.6088	224	12
	9	2.1506	233	13
	10	2.9675	246	18
	11	4.4398	271	34
Integration of Ideas	0	-2.9504	100	34
	1	-1.5058	172	17
	2	-0.7208	185	13
	3	-0.2073	193	11
	4	0.2047	200	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	5	0.5683	206	10
	6	0.9069	212	10
	7	1.2328	217	9
	8	1.5541	223	9
	9	1.8791	228	10
	10	2.2214	234	10
	11	2.6070	240	11
	12	3.0942	248	13
	13	3.8627	261	17
	14	5.3119	285	34
Vocabulary and Acquisition	0	-3.5934	100	34
	1	-2.0969	162	18
	2	-1.2485	176	14
	3	-0.6763	186	12
	4	-0.2071	193	11
	5	0.2171	201	11
	6	0.6278	207	11
	7	1.0505	214	11
	8	1.5167	222	12
	9	2.0848	232	13
	10	2.9279	246	18
	11	4.4197	271	34

Grade 7 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	0	-4.0389	100	34
	1	-2.4532	159	19
	2	-1.4765	175	15
Key Ideas	3	-0.7749	187	13
	4	-0.1818	196	12
	5	0.3603	206	12
	6	0.8879	214	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	1.4385	224	13
	8	2.0748	234	14
	9	2.9730	249	18
	10	4.4991	275	34
Craft and Structure	0	-3.6238	100	34
	1	-2.1493	164	18
	2	-1.3314	177	13
	3	-0.7920	186	11
	4	-0.3596	194	11
	5	0.0213	200	10
	6	0.3778	206	10
	7	0.7275	212	10
	8	1.0855	218	10
	9	1.4699	224	11
	10	1.9079	231	12
	11	2.4558	240	13
	12	3.2860	254	18
	13	4.7726	279	34
Integration of Ideas	0	-3.3046	100	33
	1	-1.9267	167	17
	2	-1.2072	179	12
	3	-0.7418	187	11
	4	-0.3672	193	10
	5	-0.0347	199	9
	6	0.2757	204	9
	7	0.5747	209	9
	8	0.8701	214	9
	9	1.1694	219	9
	10	1.4821	224	9
	11	1.8225	230	10
	12	2.2154	236	11
	13	2.7147	245	13
	14	3.4910	258	17

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	15	4.9328	282	34
Vocabulary and Acquisition	0	-4.2167	100	34
	1	-2.7304	154	18
	2	-1.8935	168	13
	3	-1.3303	177	12
	4	-0.8676	185	11
	5	-0.4474	192	11
	6	-0.0383	199	11
	7	0.3850	206	11
	8	0.8540	214	12
	9	1.4268	223	14
	10	2.2771	237	18
	11	3.7759	262	34

Grade 7 Reading-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.0389	100	34
	1	-2.4532	159	19
	2	-1.4765	175	15
	3	-0.7749	187	13
	4	-0.1818	196	12
	5	0.3603	206	12
	6	0.8879	214	12
	7	1.4385	224	13
	8	2.0748	234	14
	9	2.9730	249	18
	10	4.4991	275	34
Craft and Structure	0	-3.6238	100	34
	1	-2.1493	164	18
	2	-1.3314	177	13

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	3	-0.7920	186	11
	4	-0.3596	194	11
	5	0.0213	200	10
	6	0.3778	206	10
	7	0.7275	212	10
	8	1.0855	218	10
	9	1.4699	224	11
	10	1.9079	231	12
	11	2.4558	240	13
	12	3.2860	254	18
	13	4.7726	279	34
	0	-3.2426	100	33
	1	-1.8671	168	17
	2	-1.1445	180	12
	3	-0.6712	188	11
	4	-0.2847	195	10
	5	0.0628	201	10
	6	0.3910	206	9
Integration of Ideas	7	0.7107	211	9
	8	1.0307	217	9
	9	1.3611	222	10
	10	1.7163	228	10
	11	2.1215	235	11
	12	2.6309	243	13
	13	3.4151	256	17
	14	4.8615	281	34
	0	-4.2167	100	34
	1	-2.7304	154	18
	2	-1.8935	168	13
Vocabulary and Acquisition	3	-1.3303	177	12
	4	-0.8676	185	11
	5	-0.4474	192	11
	6	-0.0383	199	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	0.3850	206	11
	8	0.8540	214	12
	9	1.4268	223	14
	10	2.2771	237	18
	11	3.7759	262	34

Grade 8 Reading

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Key Ideas	0	-4.8934	100	34
	1	-3.4291	142	18
	2	-2.6253	156	13
	3	-2.1008	165	11
	4	-1.6847	172	10
	5	-1.3226	178	10
	6	-0.9894	183	9
	7	-0.6710	188	9
	8	-0.3576	194	9
	9	-0.0415	199	9
	10	0.2853	204	10
	11	0.6326	210	10
	12	1.0152	217	11
	13	1.4589	224	12
	14	2.0195	233	13
	15	2.8696	247	18
	16	4.3762	273	34
Craft and Structure	0	-3.4540	100	34
	1	-1.8972	168	18
	2	-0.9811	183	14
	3	-0.3556	194	12
	4	0.1550	202	12
	5	0.6117	210	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	1.0484	217	11
	7	1.4927	224	11
	8	1.9783	233	12
	9	2.5658	242	14
	10	3.4306	257	18
	11	4.9418	282	34
Integration of Ideas	0	-3.3079	100	34
	1	-1.8599	169	18
	2	-1.0435	182	13
	3	-0.4821	192	12
	4	-0.0169	199	11
	5	0.3984	206	11
	6	0.7867	213	10
	7	1.1665	219	10
	8	1.5587	226	11
	9	1.9942	233	11
	10	2.5319	242	13
	11	3.3463	255	18
	12	4.8186	280	34
Vocabulary and Acquisition	0	-4.0161	100	34
	1	-2.5485	157	18
	2	-1.7384	171	13
	3	-1.2038	180	11
	4	-0.7715	187	11
	5	-0.3833	193	10
	6	-0.0079	199	10
	7	0.3799	206	11
	8	0.8115	213	11
	9	1.3451	222	13
	10	2.1538	236	18
	11	3.6200	260	34

Grade 3 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-3.9470	100	34
	1	-2.3878	154	19
	2	-1.4579	169	14
	3	-0.8050	180	13
	4	-0.2538	189	12
	5	0.2540	198	12
	6	0.7480	206	12
	7	1.2502	214	12
	8	1.7884	223	13
	9	2.4184	234	14
	10	3.3125	249	18
	11	4.8354	274	34
Number and Operations in Base Ten	0	-4.1064	100	34
	1	-2.6202	150	18
	2	-1.7814	164	13
	3	-1.2126	173	12
	4	-0.7384	181	11
	5	-0.2973	188	11
	6	0.1485	196	11
	7	0.6372	204	12
	8	1.2325	214	14
	9	2.1129	229	18
	10	3.6419	254	34
Number and Operations - Fractions	0	-4.2248	100	34
	1	-2.7144	148	18
	2	-1.8518	163	14
	3	-1.2726	172	12
	4	-0.8058	180	11
	5	-0.3958	187	10
	6	-0.0150	193	10
	7	0.3545	199	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	8	0.7277	206	10
	9	1.1210	212	11
	10	1.5565	219	11
	11	2.0716	228	13
	12	2.7447	239	15
	13	3.7886	257	20
	14	5.5017	285	35
Measurement and Data/Geometry	0	-4.2324	100	34
	1	-2.7539	147	18
	2	-1.9300	161	13
	3	-1.3838	170	12
	4	-0.9443	178	11
	5	-0.5567	184	10
	6	-0.1951	190	10
	7	0.1562	196	10
	8	0.5087	202	10
	9	0.8720	208	10
	10	1.2540	214	10
	11	1.6584	221	11
	12	2.0887	228	11
	13	2.5723	236	12
	14	3.2476	248	16
	15	4.5073	269	32

Grade 4 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-4.3014	100	34
	1	-2.7957	155	18
	2	-1.9300	169	14
	3	-1.3358	179	12
	4	-0.8428	188	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	5	-0.3987	195	11
	6	0.0174	202	11
	7	0.4148	209	10
	8	0.8007	215	10
	9	1.1888	221	11
	10	1.6082	228	11
	11	2.1227	237	13
	12	2.9194	250	18
	13	4.3948	275	34
Number and Operations in Base Ten	0	-4.3425	100	34
	1	-2.8344	154	18
	2	-1.9833	169	14
	3	-1.4210	178	12
	4	-0.9732	185	11
	5	-0.5827	192	10
	6	-0.2226	198	10
	7	0.1226	204	10
	8	0.4646	209	10
	9	0.8163	215	10
	10	1.2003	222	11
	11	1.6686	229	12
	12	2.3896	241	17
	13	3.7731	265	33
Number and Operations - Fractions	0	-4.2222	100	34
	1	-2.7071	156	18
	2	-1.8377	171	14
	3	-1.2500	181	12
	4	-0.7725	189	11
	5	-0.3498	196	11
	6	0.0443	202	10
	7	0.4253	209	10
	8	0.8060	215	10
	9	1.2011	222	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	1.6359	229	11
	11	2.1652	238	13
	12	2.9611	251	17
	13	4.4127	275	34
Measurement and Data/Geometry	0	-3.9876	100	34
	1	-2.5207	160	18
	2	-1.7155	173	13
	3	-1.1920	182	11
	4	-0.7795	189	10
	5	-0.4239	195	10
	6	-0.1000	200	9
	7	0.2070	205	9
	8	0.5076	210	9
	9	0.8112	215	9
	10	1.1285	220	10
	11	1.4745	226	10
	12	1.8748	233	11
	13	2.3842	241	13
	14	3.1740	255	17
	15	4.6287	279	34

Grade 5 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-3.7361	100	34
	1	-2.2482	165	18
	2	-1.4103	179	13
	3	-0.8483	188	12
	4	-0.3906	196	11
	5	0.0185	202	10
	6	0.4059	209	10
	7	0.7889	215	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	8	1.1821	222	11
	9	1.6028	229	11
	10	2.0783	237	12
	11	2.6660	247	14
	12	3.5412	261	18
	13	5.0677	287	34
Number and Operations in Base Ten	0	-4.0321	100	34
	1	-2.5424	160	18
	2	-1.7070	174	13
	3	-1.1537	183	12
	4	-0.7117	190	11
	5	-0.3256	197	10
	6	0.0317	203	10
	7	0.3789	208	10
	8	0.7327	214	10
	9	1.1129	221	11
	10	1.5489	228	12
	11	2.0979	237	13
	12	2.9322	251	18
	13	4.4229	276	34
Number and Operations - Fractions	0	-3.9988	100	34
	1	-2.4382	161	18
	2	-1.5195	177	14
	3	-0.8916	187	12
	4	-0.3781	196	12
	5	0.0793	203	11
	6	0.5063	211	11
	7	0.9141	217	11
	8	1.3083	224	10
	9	1.6989	230	10
	10	2.1120	237	11
	11	2.6090	246	13
	12	3.3756	258	17

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	13	4.8231	282	34
Measurement and Data/Geometry	0	-4.1116	100	34
	1	-2.6273	158	18
	2	-1.7998	172	13
	3	-1.2553	181	11
	4	-0.8236	188	11
	5	-0.4508	195	10
	6	-0.1128	200	10
	7	0.2038	205	9
	8	0.5083	211	9
	9	0.8092	216	9
	10	1.1171	221	9
	11	1.4474	226	10
	12	1.8274	233	11
	13	2.3144	241	13
	14	3.0833	253	17
	15	4.5261	278	34

Grade 5 Mathematics-Braille

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Operations and Algebraic Thinking	0	-3.7361	100	34
	1	-2.2482	165	18
	2	-1.4103	179	13
	3	-0.8483	188	12
	4	-0.3906	196	11
	5	0.0185	202	10
	6	0.4059	209	10
	7	0.7889	215	10
	8	1.1821	222	11
	9	1.6028	229	11
	10	2.0783	237	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	11	2.6660	247	14
	12	3.5412	261	18
	13	5.0677	287	34
Number and Operations in Base Ten	0	-4.0321	100	34
	1	-2.5424	160	18
	2	-1.7070	174	13
	3	-1.1537	183	12
	4	-0.7117	190	11
	5	-0.3256	197	10
	6	0.0317	203	10
	7	0.3789	208	10
	8	0.7327	214	10
	9	1.1129	221	11
	10	1.5489	228	12
	11	2.0979	237	13
	12	2.9322	251	18
	13	4.4229	276	34
Number and Operations - Fractions	0	-3.4337	100	34
	1	-1.9194	170	18
	2	-1.0387	185	14
	3	-0.4216	195	12
	4	0.1098	204	12
	5	0.6213	212	12
	6	1.1604	221	13
	7	1.7923	232	14
	8	2.6936	247	18
	9	4.2261	273	34
Measurement and Data/Geometry	0	-4.1116	100	34
	1	-2.6273	158	18
	2	-1.7998	172	13
	3	-1.2553	181	11
	4	-0.8236	188	11
	5	-0.4508	195	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	-0.1128	200	10
	7	0.2038	205	9
	8	0.5083	211	9
	9	0.8092	216	9
	10	1.1171	221	9
	11	1.4474	226	10
	12	1.8274	233	11
	13	2.3144	241	13
	14	3.0833	253	17
	15	4.5261	278	34

Grade 6 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Ratios and Proportional Relationships	0	-4.4760	100	34
	1	-2.9637	153	18
	2	-2.0943	167	14
	3	-1.5039	177	12
	4	-1.0222	185	11
	5	-0.5936	192	11
	6	-0.1894	199	11
	7	0.2111	206	11
	8	0.6290	213	11
	9	1.0936	220	12
	10	1.6619	230	14
	11	2.5064	244	18
	12	3.9998	269	34
The Number System	0	-4.1633	100	34
	1	-2.6881	157	18
	2	-1.8653	171	13
	3	-1.3145	180	12
	4	-0.8607	188	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	5	-0.4433	195	11
	6	-0.0257	202	11
	7	0.4284	209	12
	8	0.9799	218	13
	9	1.8036	232	18
	10	3.2797	257	34
	0	-4.6573	100	34
	1	-3.1280	150	18
	2	-2.2298	165	14
	3	-1.6047	175	12
	4	-1.0851	184	12
	5	-0.6191	192	11
Expressions and Equations	6	-0.1823	199	11
	7	0.2425	206	11
	8	0.6743	213	11
	9	1.1415	221	12
	10	1.7022	230	13
	11	2.5308	244	18
	12	4.0084	269	34
	0	-3.8720	100	35
	1	-2.1417	166	20
	2	-1.0506	185	15
	3	-0.3059	197	14
	4	0.3020	207	13
Geometry	5	0.8444	216	12
	6	1.3440	224	12
	7	1.8198	232	12
	8	2.3285	241	13
	9	3.0484	253	17
	10	4.4156	276	33
	0	-2.8283	100	34
Statistics and Probability	1	-1.3243	180	18
	2	-0.4651	194	14

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	3	0.1203	204	12
	4	0.6068	212	11
	5	1.0554	220	11
	6	1.5026	227	11
	7	1.9847	235	12
	8	2.5626	245	14
	9	3.4107	259	18
	10	4.9038	284	34

Grade 7 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Ratios and Proportional Relationships	0	-3.7653	100	34
	1	-2.2443	169	18
	2	-1.3829	183	14
	3	-0.8271	193	11
	4	-0.4091	199	10
	5	-0.0702	205	9
	6	0.2265	210	9
	7	0.5103	215	9
	8	0.8102	220	9
	9	1.1640	226	11
	10	1.6387	234	13
	11	2.4138	247	17
	12	3.8702	271	34
The Number System	0	-3.4034	100	34
	1	-1.9187	174	18
	2	-1.0879	188	13
	3	-0.5371	197	12
	4	-0.0955	205	11
	5	0.2924	211	10
	6	0.6555	217	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	7	1.0183	223	10
	8	1.4124	230	11
	9	1.8974	238	13
	10	2.6500	250	17
	11	4.0732	274	34
Expressions and Equations	0	-3.7111	100	34
	1	-2.2098	169	18
	2	-1.3560	184	14
	3	-0.7778	193	12
	4	-0.2992	201	11
	5	0.1413	209	11
	6	0.5807	216	11
	7	1.0561	224	12
	8	1.6286	233	14
	9	2.4735	248	18
	10	3.9656	272	34
Geometry	0	-3.5022	100	34
	1	-2.0038	173	18
	2	-1.1537	187	14
	3	-0.5795	197	12
	4	-0.1065	205	11
	5	0.3255	212	11
	6	0.7521	219	11
	7	1.2084	226	12
	8	1.7535	236	13
	9	2.5603	249	17
	10	4.0152	273	34
Statistics and Probability	0	-4.0119	100	34
	1	-2.4549	165	18
	2	-1.5423	181	14
	3	-0.9191	191	12
	4	-0.4040	200	12
	5	0.0691	207	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	0.5404	215	12
	7	1.0477	224	12
	8	1.6438	234	14
	9	2.4271	247	16
	10	3.6318	267	21
	11	5.4698	297	36

Grade 8 Mathematics

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
The Number System/Expressions and Equations	0	-4.2195	100	34
	1	-2.7169	158	18
	2	-1.8807	172	13
	3	-1.3415	181	11
	4	-0.9249	187	10
	5	-0.5742	193	10
	6	-0.2627	199	9
	7	0.0252	203	9
	8	0.3011	208	9
	9	0.5755	213	9
	10	0.8603	217	9
	11	1.1724	222	10
	12	1.5390	229	11
	13	2.0175	237	13
	14	2.7818	249	17
	15	4.2226	273	34
Functions	0	-4.0201	100	34
	1	-2.5280	161	18
	2	-1.6922	175	13
	3	-1.1410	184	12
	4	-0.7033	191	11
	5	-0.3248	197	10

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	6	0.0199	203	10
	7	0.3469	209	9
	8	0.6710	214	10
	9	1.0104	220	10
	10	1.3945	226	11
	11	1.8832	234	13
	12	2.6545	247	17
	13	4.1022	271	34
Geometry	0	-4.0791	100	34
	1	-2.6127	159	18
	2	-1.8136	173	13
	3	-1.3020	181	11
	4	-0.9061	188	10
	5	-0.5703	193	9
	6	-0.2677	198	9
	7	0.0186	203	9
	8	0.3020	208	9
	9	0.5960	213	9
	10	0.9176	218	10
	11	1.2939	224	11
	12	1.7809	233	13
	13	2.5506	245	17
	14	3.9921	269	34
Statistics and Probability	0	-4.1061	100	34
	1	-2.5814	160	18
	2	-1.6929	175	14
	3	-1.0789	185	12
	4	-0.5681	193	12
	5	-0.1065	201	11
	6	0.3303	208	11
	7	0.7565	216	11
	8	1.1864	223	11
	9	1.6450	230	12

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	10	2.1884	239	13
	11	2.9903	253	17
	12	4.4423	277	34

Grade 5 Social Studies

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Government Civics	0	-3.9451	100	34
	1	-2.4669	162	18
	2	-1.6402	176	13
	3	-1.0853	185	12
	4	-0.6273	193	11
	5	-0.2054	200	11
	6	0.2171	207	11
	7	0.6766	214	12
	8	1.2342	224	13
	9	2.0649	237	18
	10	3.5469	262	34
Cultures and Societies	0	-3.3327	100	34
	1	-1.8876	172	17
	2	-1.1055	185	13
	3	-0.5859	193	11
	4	-0.1457	201	11
	5	0.2840	208	11
	6	0.7491	215	12
	7	1.2983	225	13
	8	2.0139	237	15
	9	3.1089	255	20
	10	4.8579	284	35
Economics	0	-3.9058	100	34
	1	-2.4045	163	18
	2	-1.5406	177	14

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	3	-0.9383	187	12
	4	-0.4182	196	12
	5	0.0881	204	12
	6	0.6295	213	13
	7	1.2589	224	14
	8	2.0384	237	16
	9	3.0832	254	19
	10	4.6696	281	34
Geography	0	-3.2348	100	34
	1	-1.7790	173	17
	2	-0.9948	186	13
	3	-0.4967	195	11
	4	-0.1087	201	10
	5	0.2308	207	10
	6	0.5562	212	10
	7	0.8942	218	10
	8	1.2732	224	11
	9	1.7318	232	12
	10	2.3399	242	14
	11	3.2850	258	19
	12	4.8959	285	35
Historical Perspective	0	-4.2221	100	34
	1	-2.7765	157	17
	2	-1.9990	170	13
	3	-1.5022	178	11
	4	-1.1148	184	10
	5	-0.7819	190	9
	6	-0.4772	195	9
	7	-0.1849	200	9
	8	0.1074	205	9
	9	0.4124	210	9
	10	0.7458	215	10
	11	1.1339	222	11

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	12	1.6315	230	13
	13	2.4101	243	17
	14	3.8567	267	34

Grade 8 Social Studies

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
Government Civics	0	-4.2627	100	34
	1	-2.7832	157	18
	2	-1.9602	170	13
	3	-1.4166	179	12
	4	-0.9801	187	11
	5	-0.5937	193	10
	6	-0.2287	199	10
	7	0.1356	205	10
	8	0.5199	212	11
	9	0.9532	219	11
	10	1.4928	228	13
	11	2.3116	242	18
	12	3.7879	266	34
Cultures and Societies	0	-3.7427	100	32
	1	-2.4489	162	16
	2	-1.7469	174	13
	3	-1.2289	183	12
	4	-0.7360	191	12
	5	-0.2197	199	12
	6	0.3455	209	13
	7	1.0003	220	14
	8	1.8187	233	16
	9	2.9502	252	20
	10	4.6410	280	35
Economics	0	-3.7610	100	32

Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	1	-2.4519	162	17
	2	-1.6789	175	13
	3	-1.0694	185	13
	4	-0.4964	195	12
	5	0.0582	204	12
	6	0.6133	213	13
	7	1.2099	223	13
	8	1.9262	235	15
	9	2.9637	252	20
	10	4.6384	280	35
	0	-3.4969	100	33
	1	-2.1193	168	17
	2	-1.2982	181	14
	3	-0.6666	192	13
	4	-0.0942	201	12
Geography	5	0.4470	211	12
	6	0.9824	219	12
	7	1.5503	229	13
	8	2.2154	240	14
	9	3.1540	256	19
	10	4.7153	282	34
	0	-4.1788	100	34
	1	-2.7230	158	17
	2	-1.9324	171	13
	3	-1.4230	179	11
	4	-1.0235	186	10
	5	-0.6789	192	10
Historical Perspective	6	-0.3629	197	9
	7	-0.0597	202	9
	8	0.2434	207	9
	9	0.5588	212	10
	10	0.9026	218	10
	11	1.3009	225	11

| Subdomain	Raw Score	Theta	Scale Score	Conditional SEM
	12	1.8088	233	13
	13	2.5976	246	17
	14	4.0518	271	34

Appendix I. Score Frequency Distributions[2]
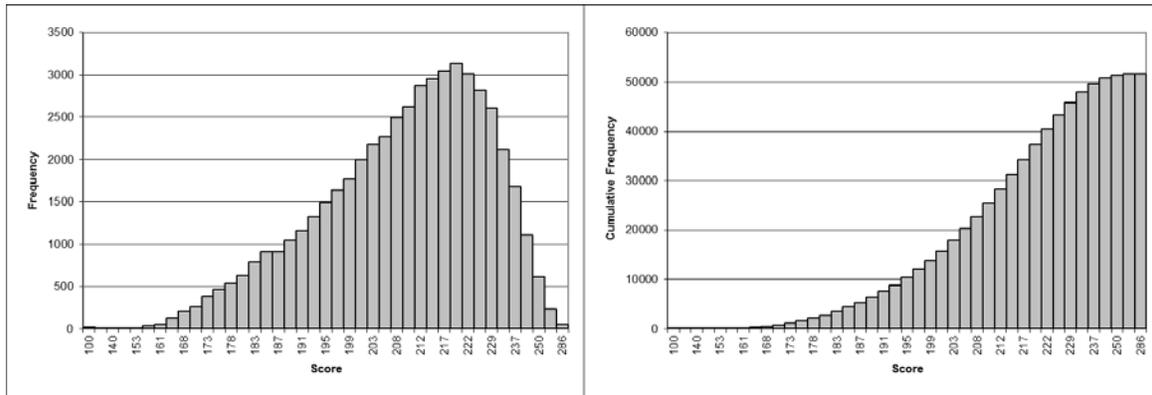
Figure 1. Reading Grade 3 Score Frequency and Cumulative Frequency Distributions
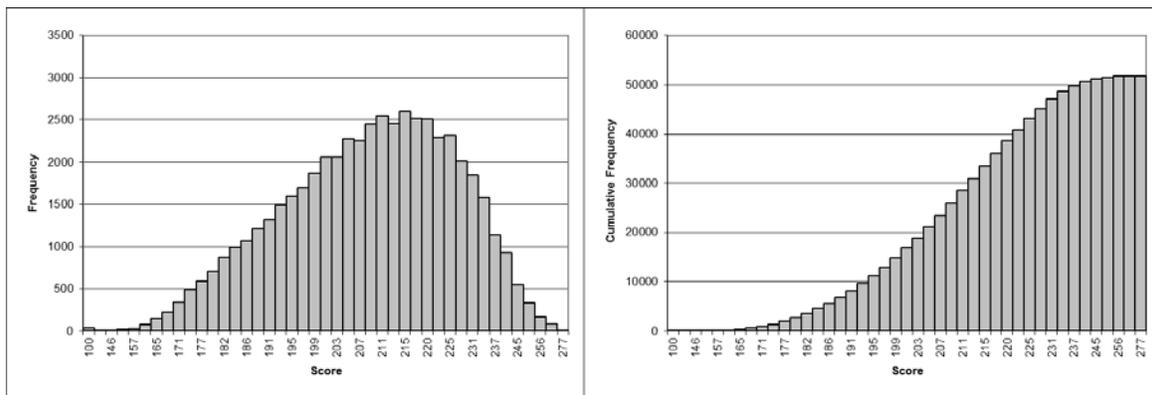
Figure 2. Reading Grade 4 Score Frequency and Cumulative Frequency Distributions
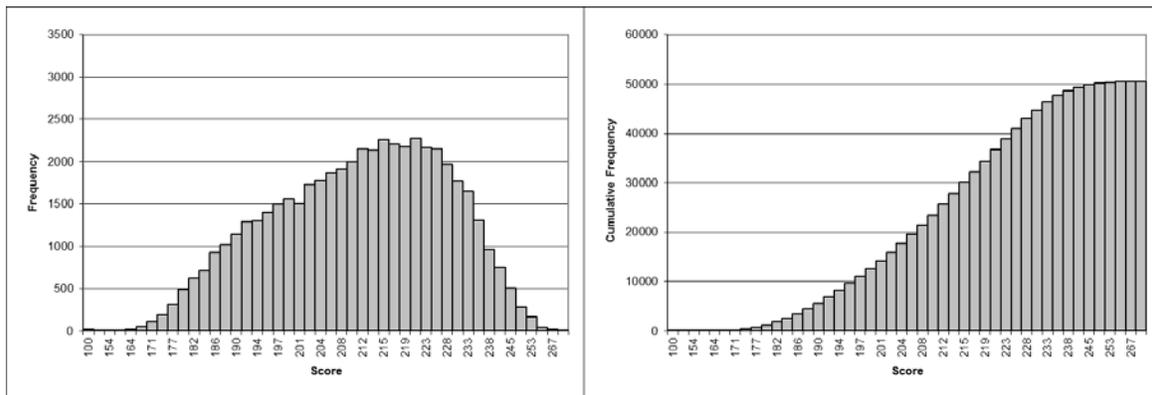
Figure 3. Reading Grade 5 Score Frequency and Cumulative Frequency Distributions

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[2] Alternate K-PREP students are not included.
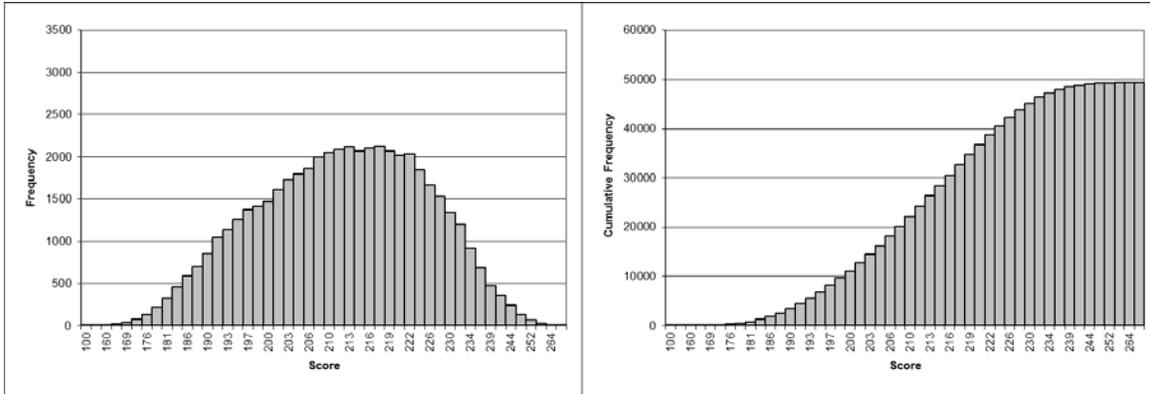
**Figure 4.** Reading Grade 6 Score Frequency and Cumulative Frequency Distributions
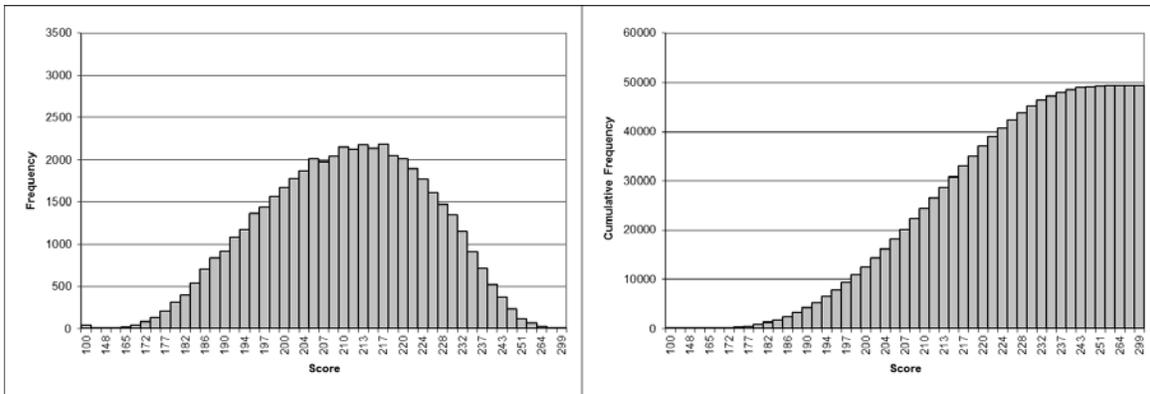
Figure 5. Reading Grade 7 Score Frequency and Cumulative Frequency Distributions
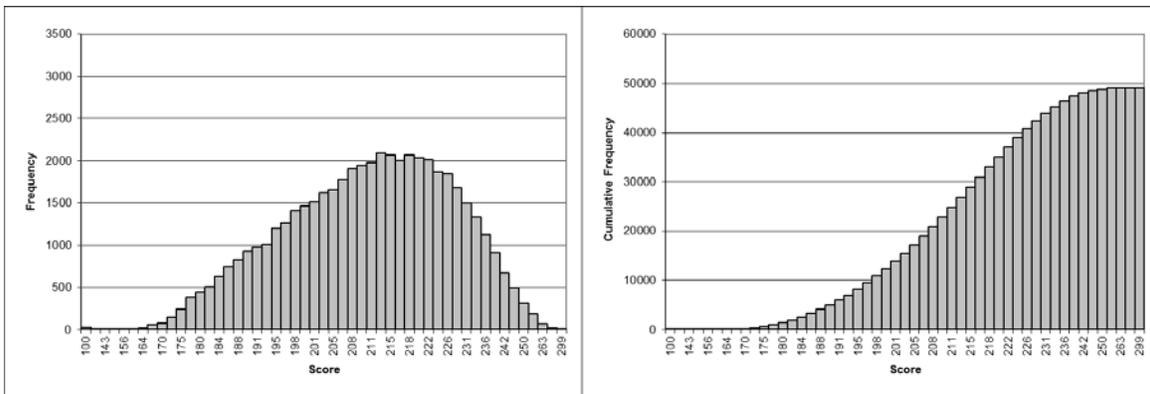
Figure 6. Reading Grade 8 Score Frequency and Cumulative Frequency Distributions
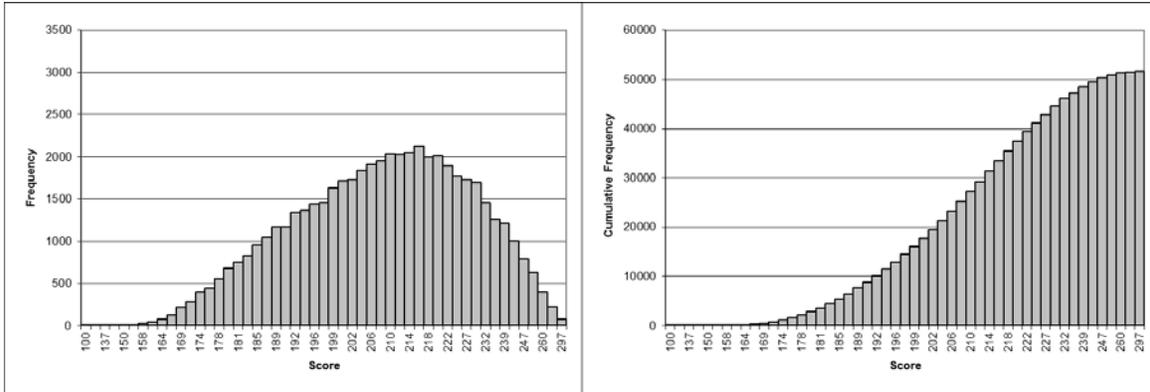
Figure 7. Mathematics Grade 3 Score Frequency and Cumulative Frequency Distributions
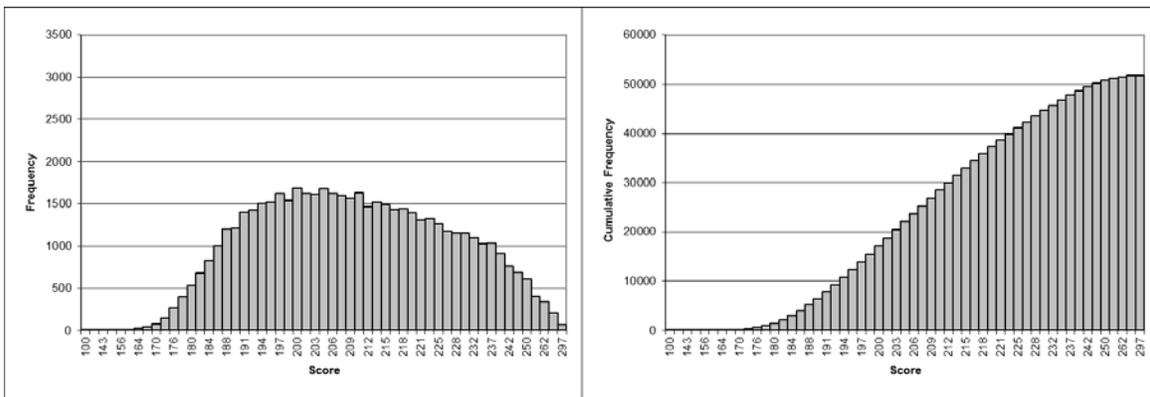
Figure 8. Mathematics Grade 4 Score Frequency and Cumulative Frequency Distributions
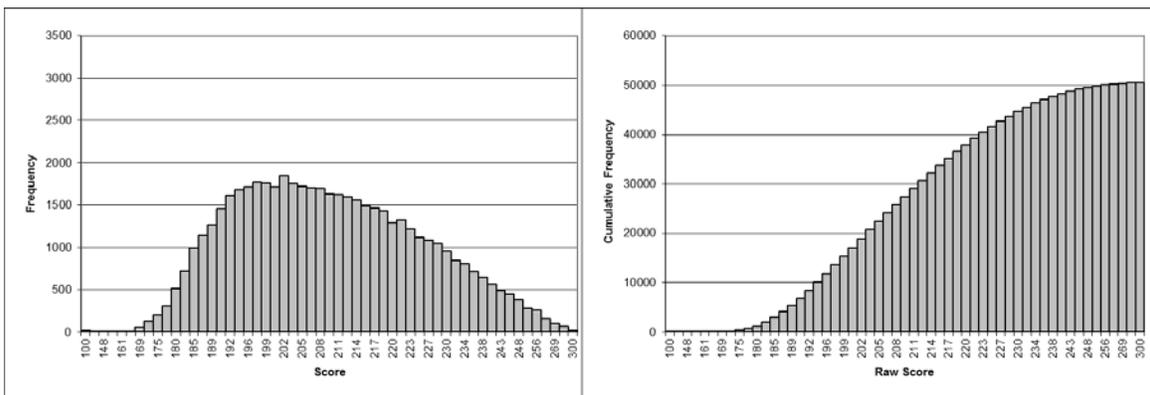
Figure 9. Mathematics Grade 5 Score Frequency and Cumulative Frequency Distributions

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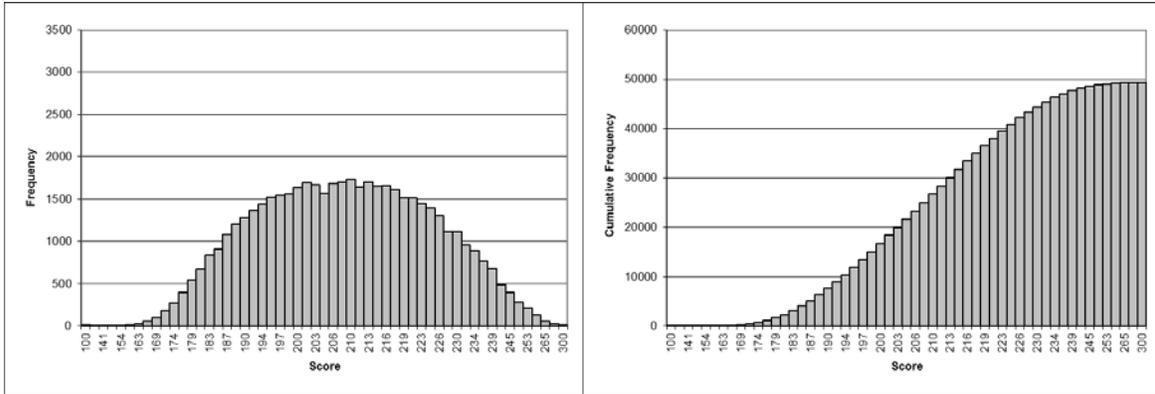
Figure 10. Mathematics Grade 6 Score Frequency and Cumulative Frequency Distributions
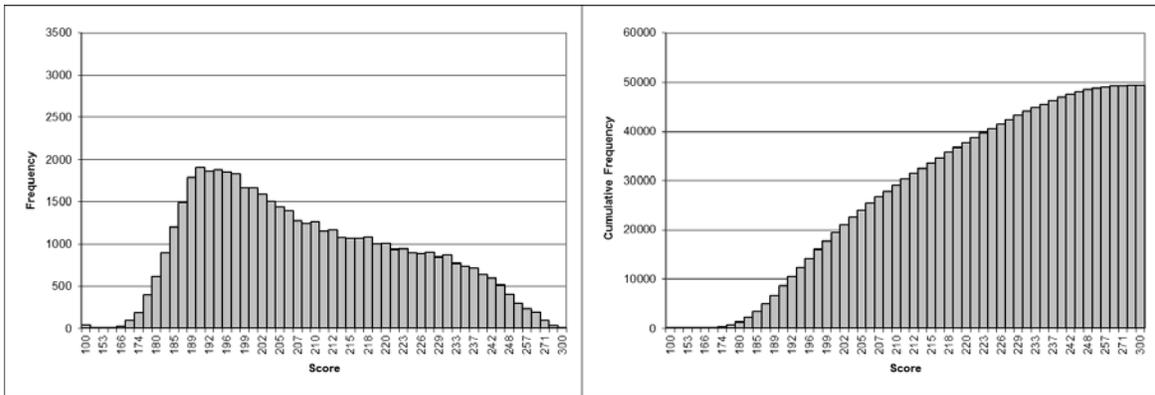
Figure 11. Mathematics Grade 7 Score Frequency and Cumulative Frequency Distributions
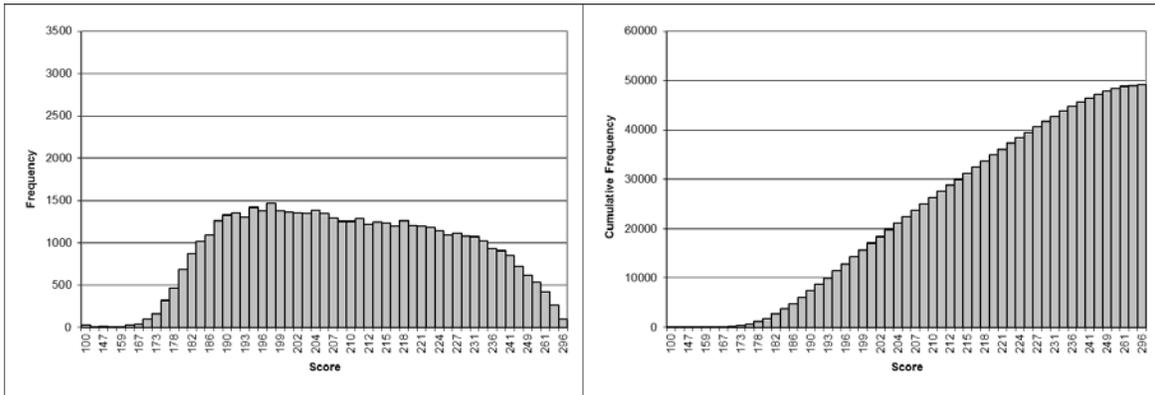
Figure 12. Mathematics Grade 8 Score Frequency and Cumulative Frequency Distributions
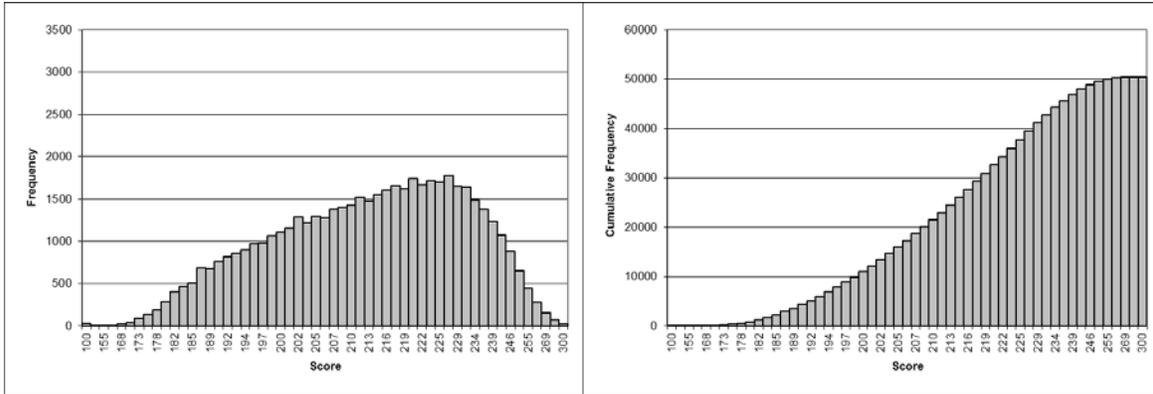
**Figure 13.** Social Studies Grade 5 Score Frequency and Cumulative Frequency Distributions
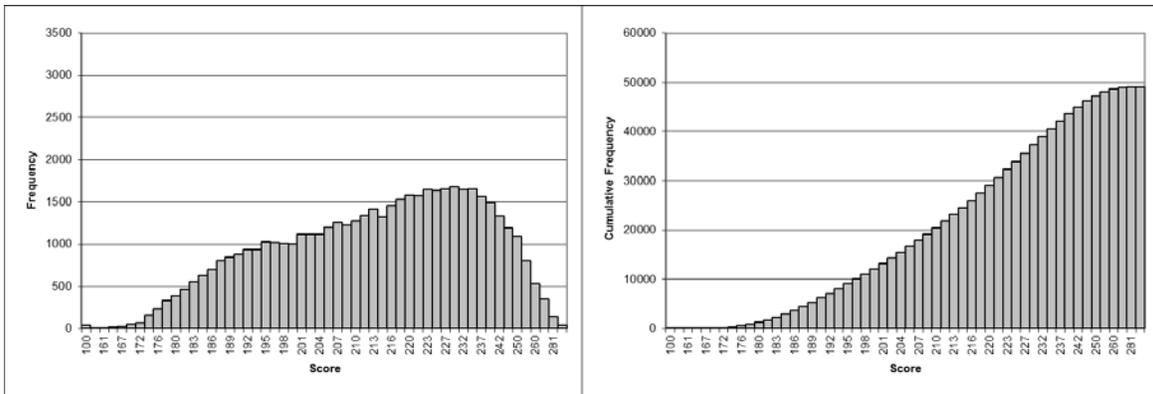
**Figure 14.** Social Studies Grade 8 Score Frequency and Cumulative Frequency Distributions
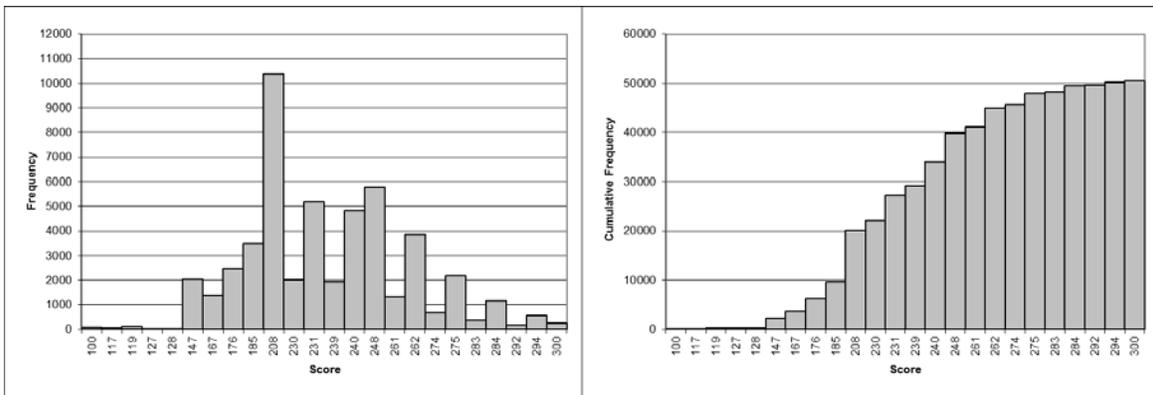
Figure 15. On Demand Writing Grade 5 Cumulative Frequency Distributions[3]

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[3] For all grades in Writing, cumulative score distributions are presented due to score distributions from multiple test forms administered.
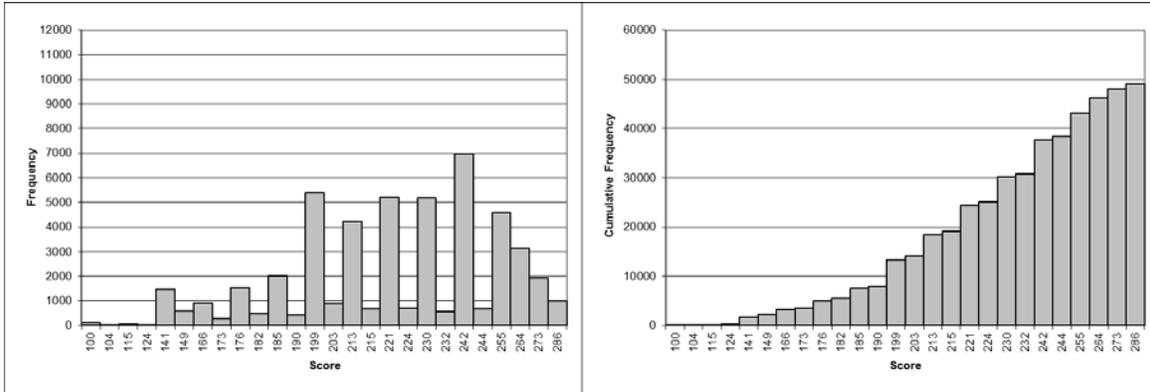
Figure 16. On Demand Writing Grade 8 Score Frequency and Cumulative Frequency Distributions
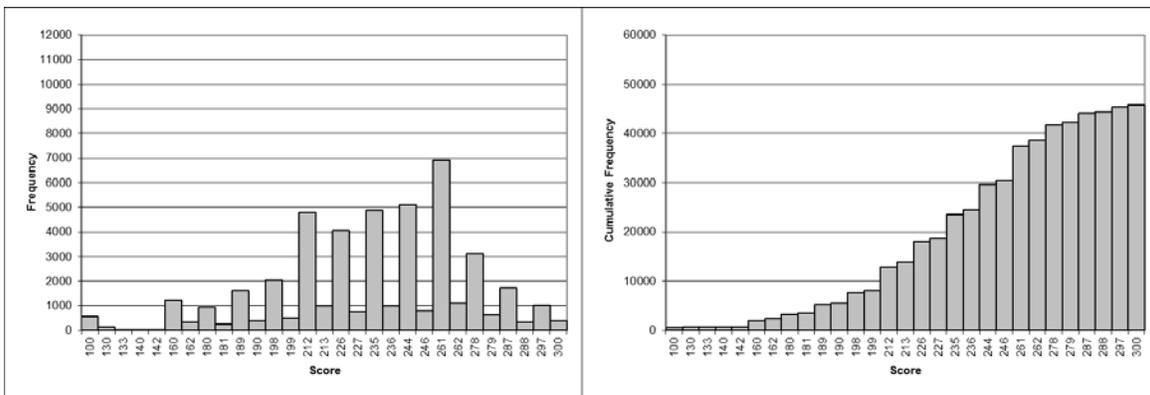
**Figure 17.** On Demand Writing Grade 11 Score Frequency and Cumulative Frequency Distributions

Appendix J. Score Frequency Distributions—Subdomain[4]
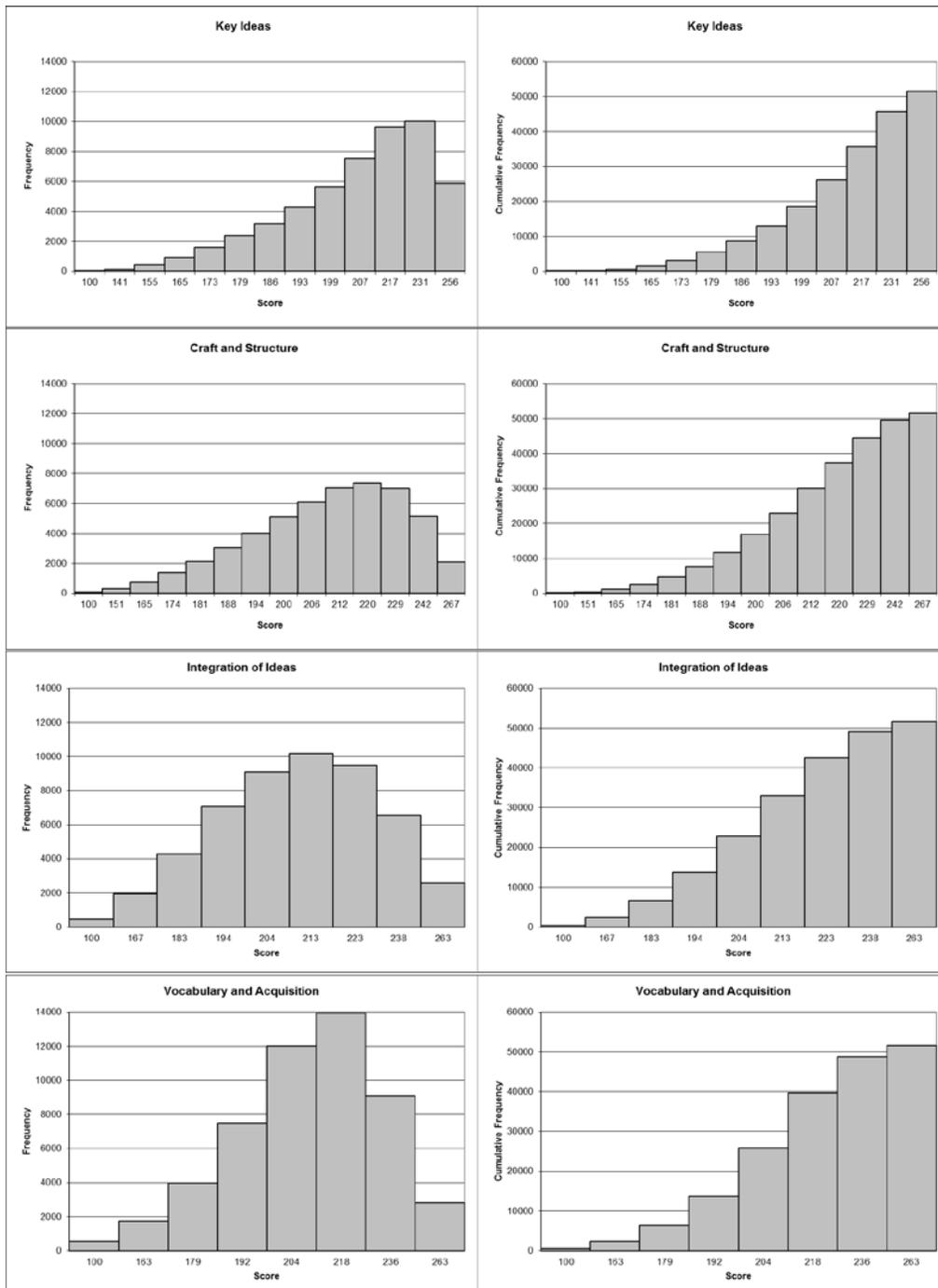
Figure 1. Reading Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions

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[4] Alternate K-PREP students are not included.
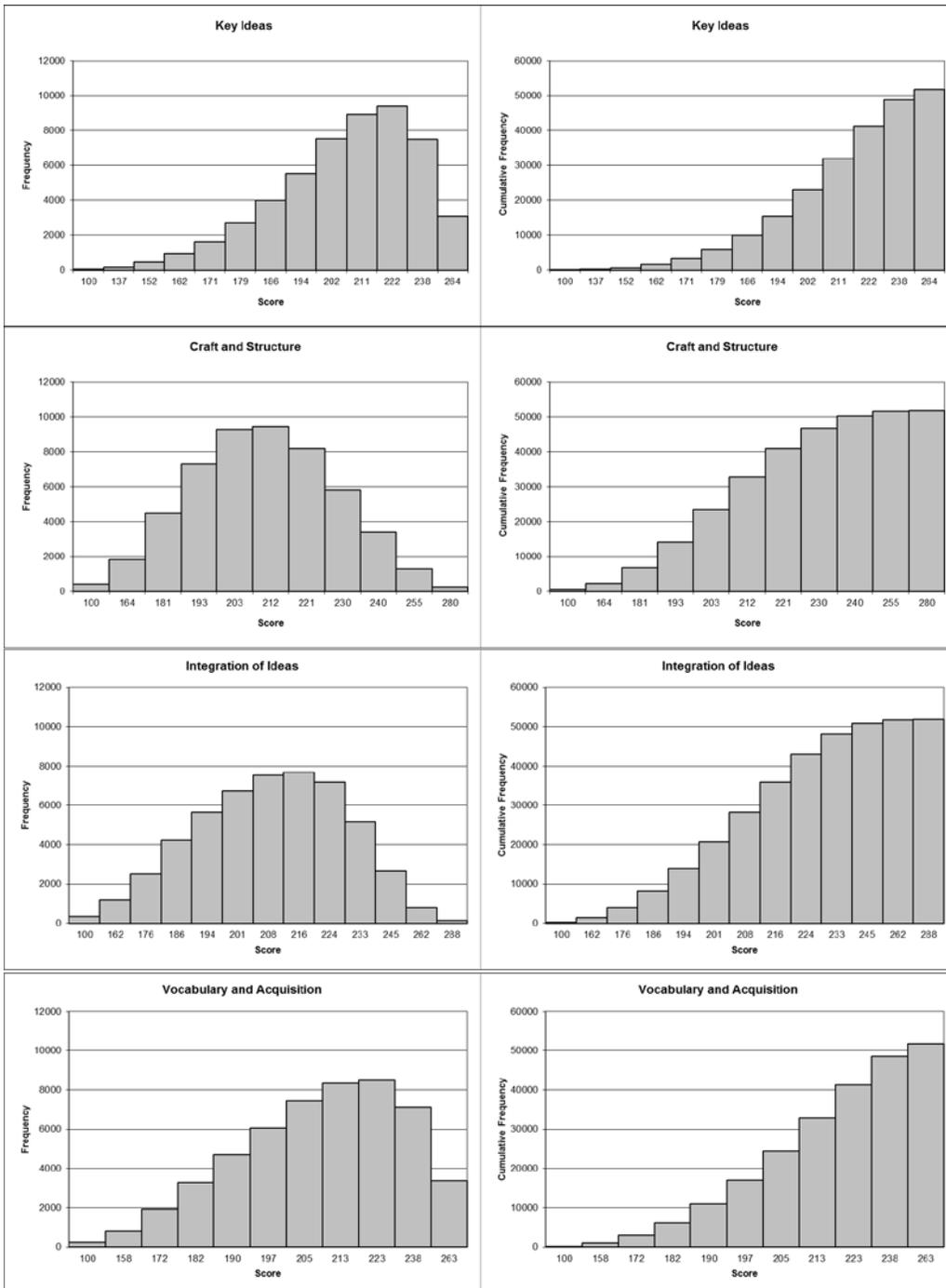
Figure 2. Reading Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions
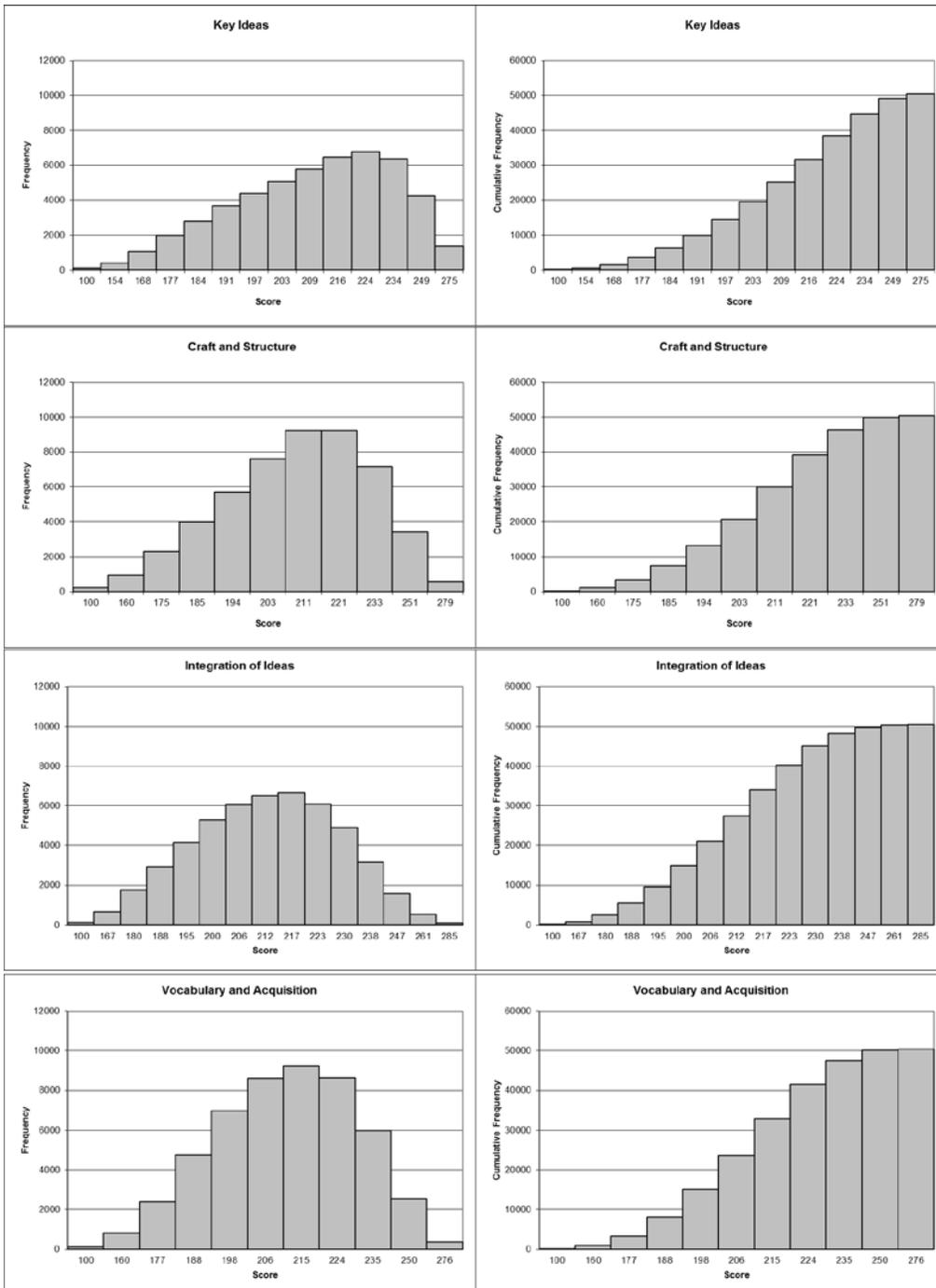
Figure 3. Reading Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions
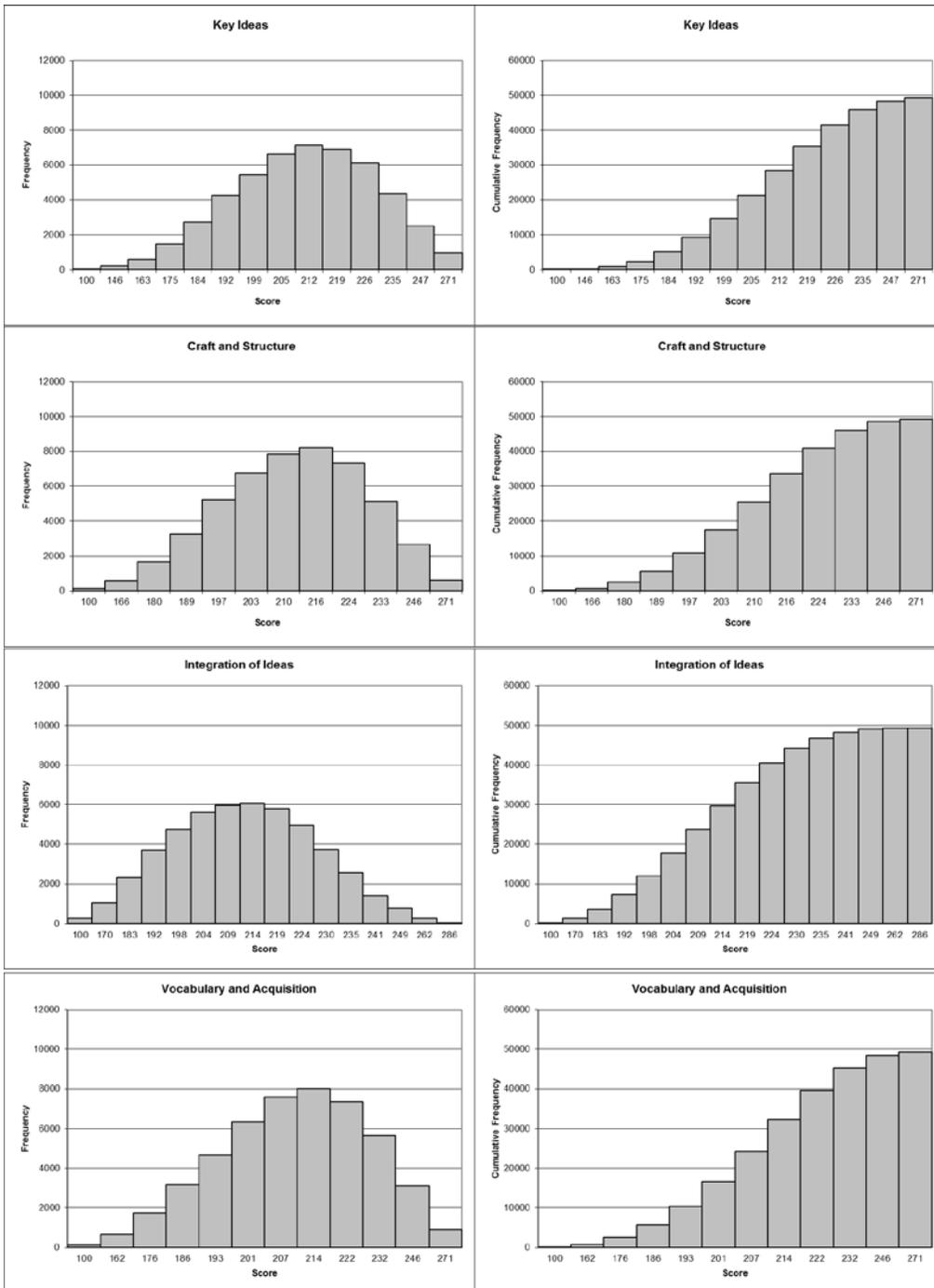
Figure 4. Reading Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions
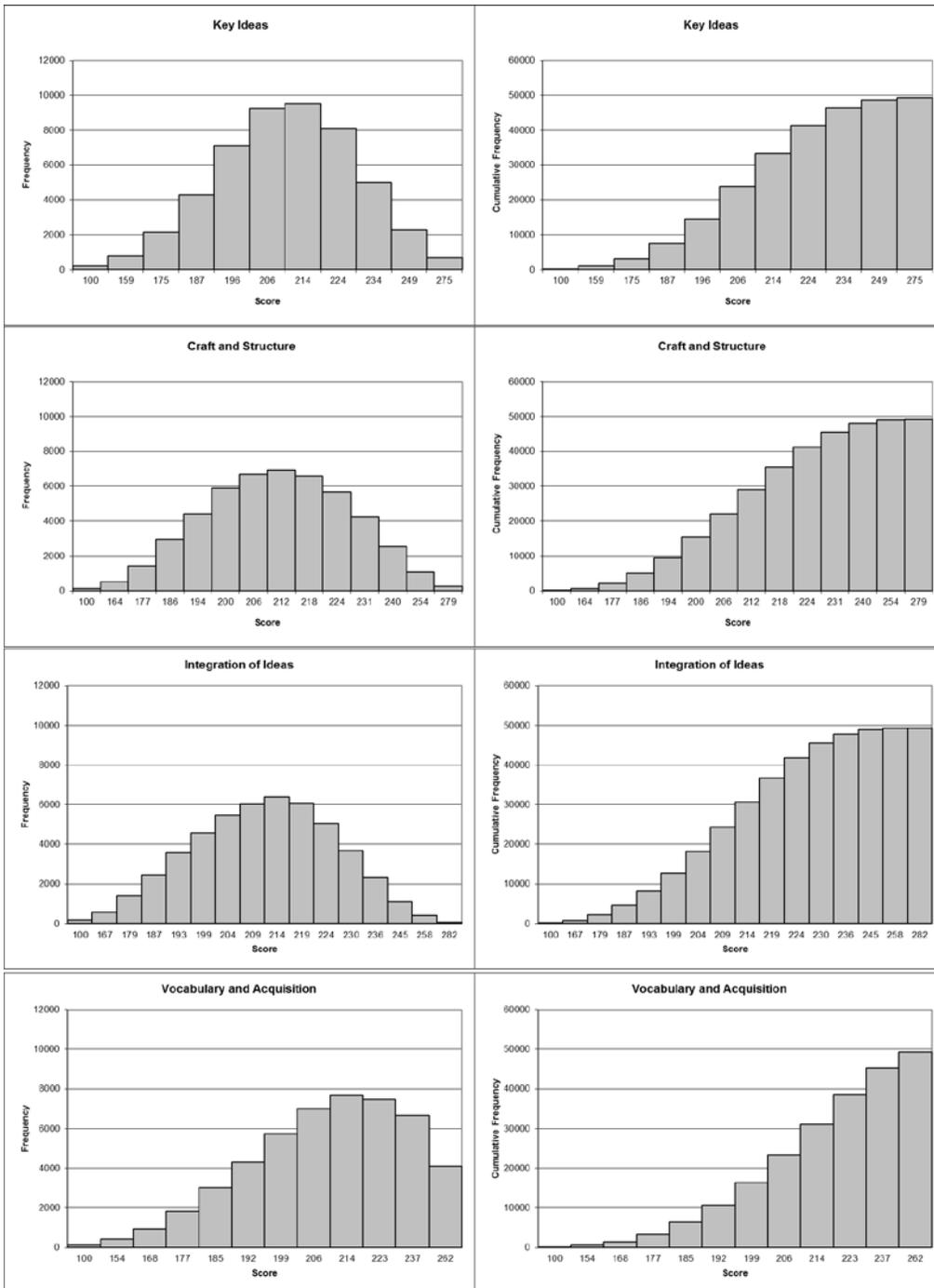
Figure 5. Reading Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions
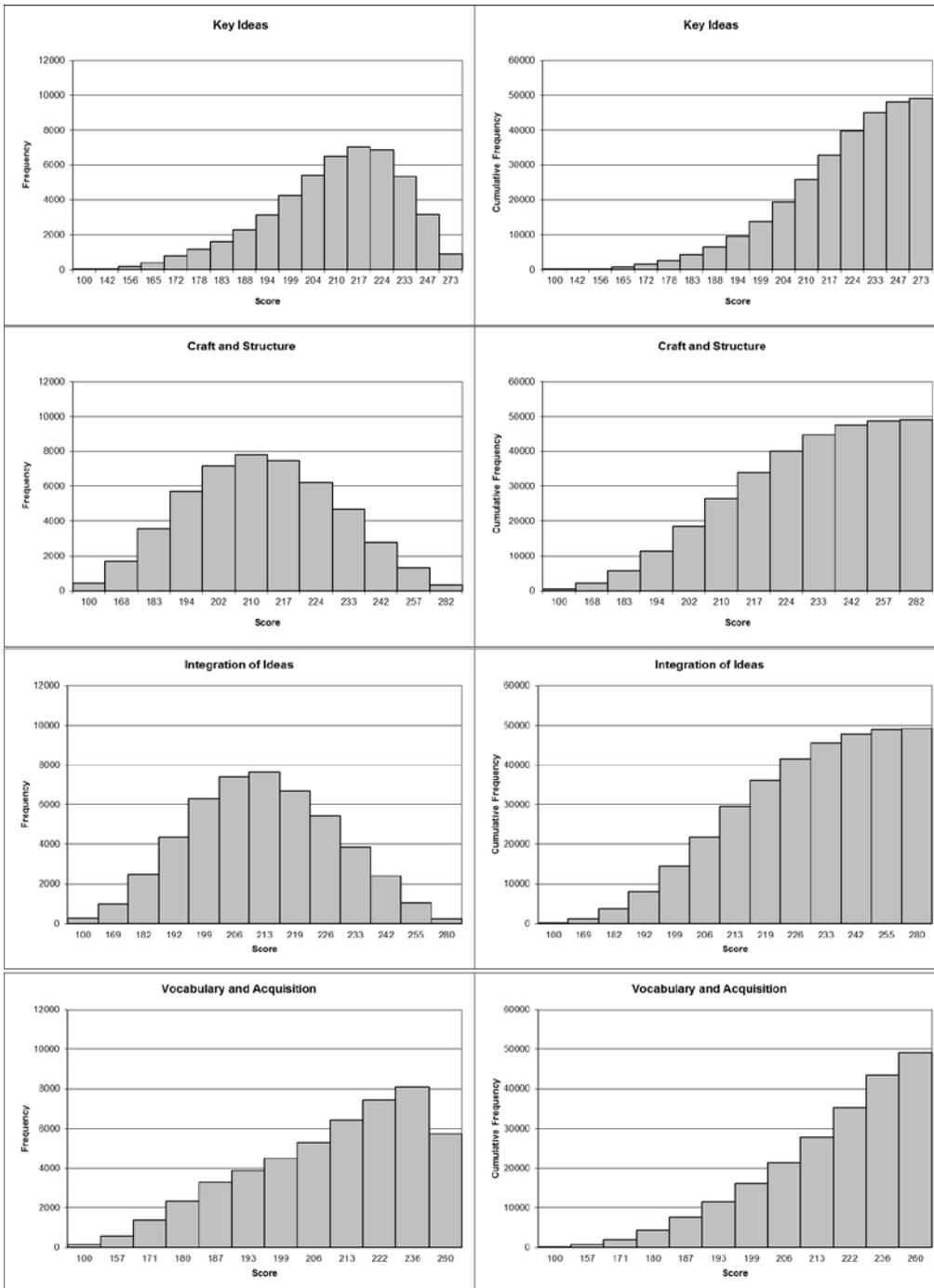
Figure 6. Reading Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions
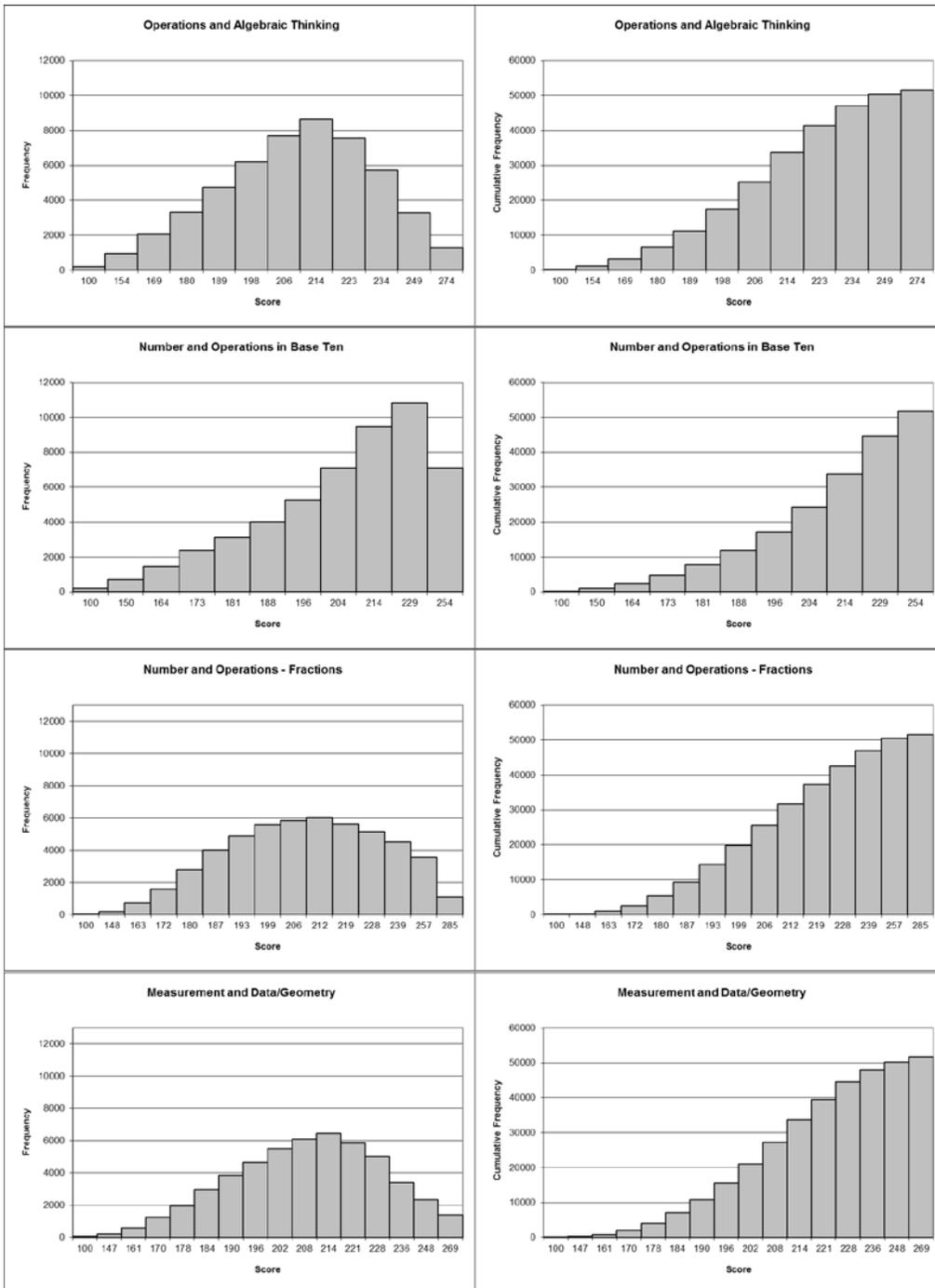
**Figure 7.** Mathematics Grade 3 Reporting Category Score Frequency and Cumulative Frequency Distributions
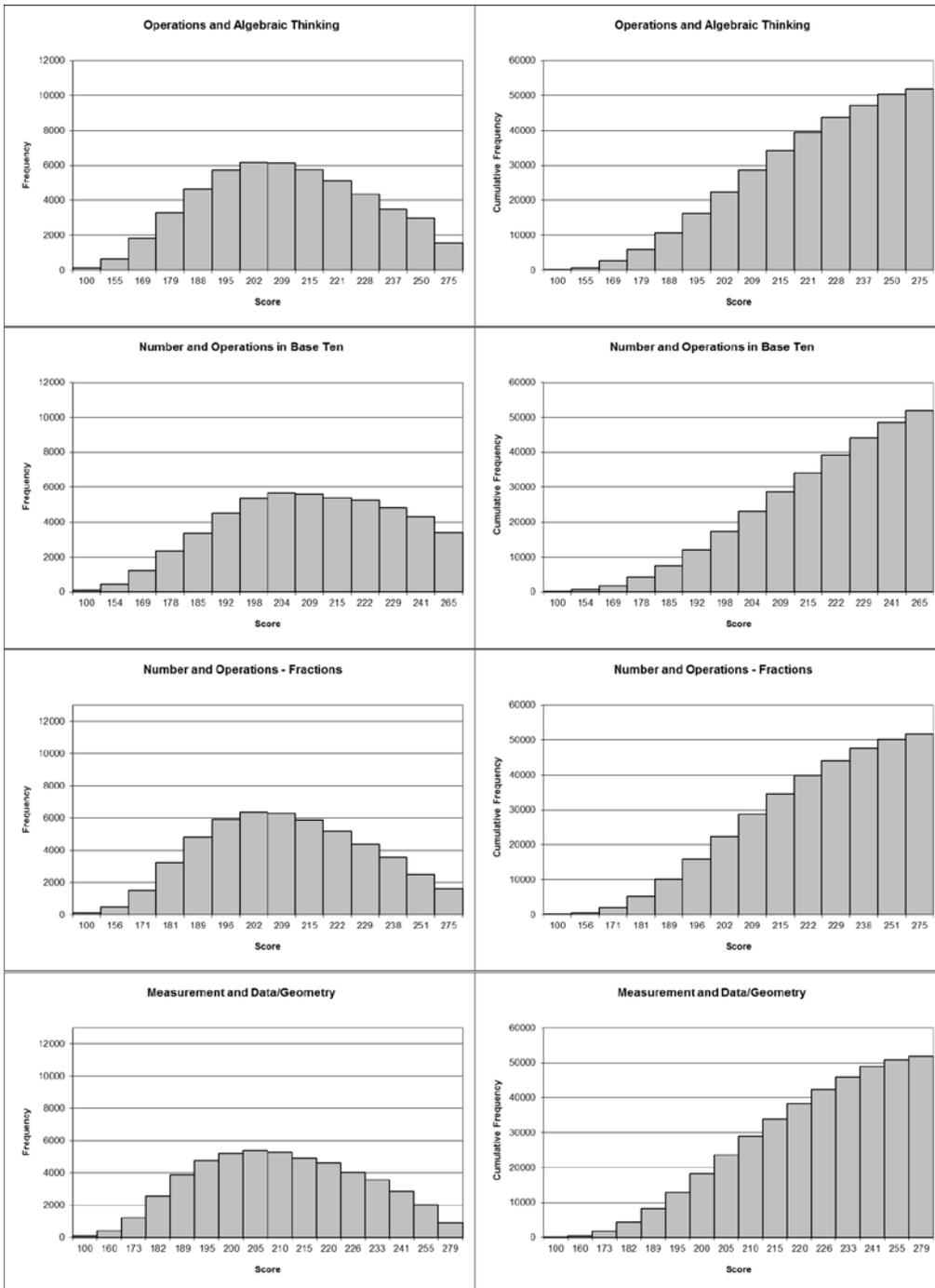
Figure 8. Mathematics Grade 4 Reporting Category Score Frequency and Cumulative Frequency Distributions
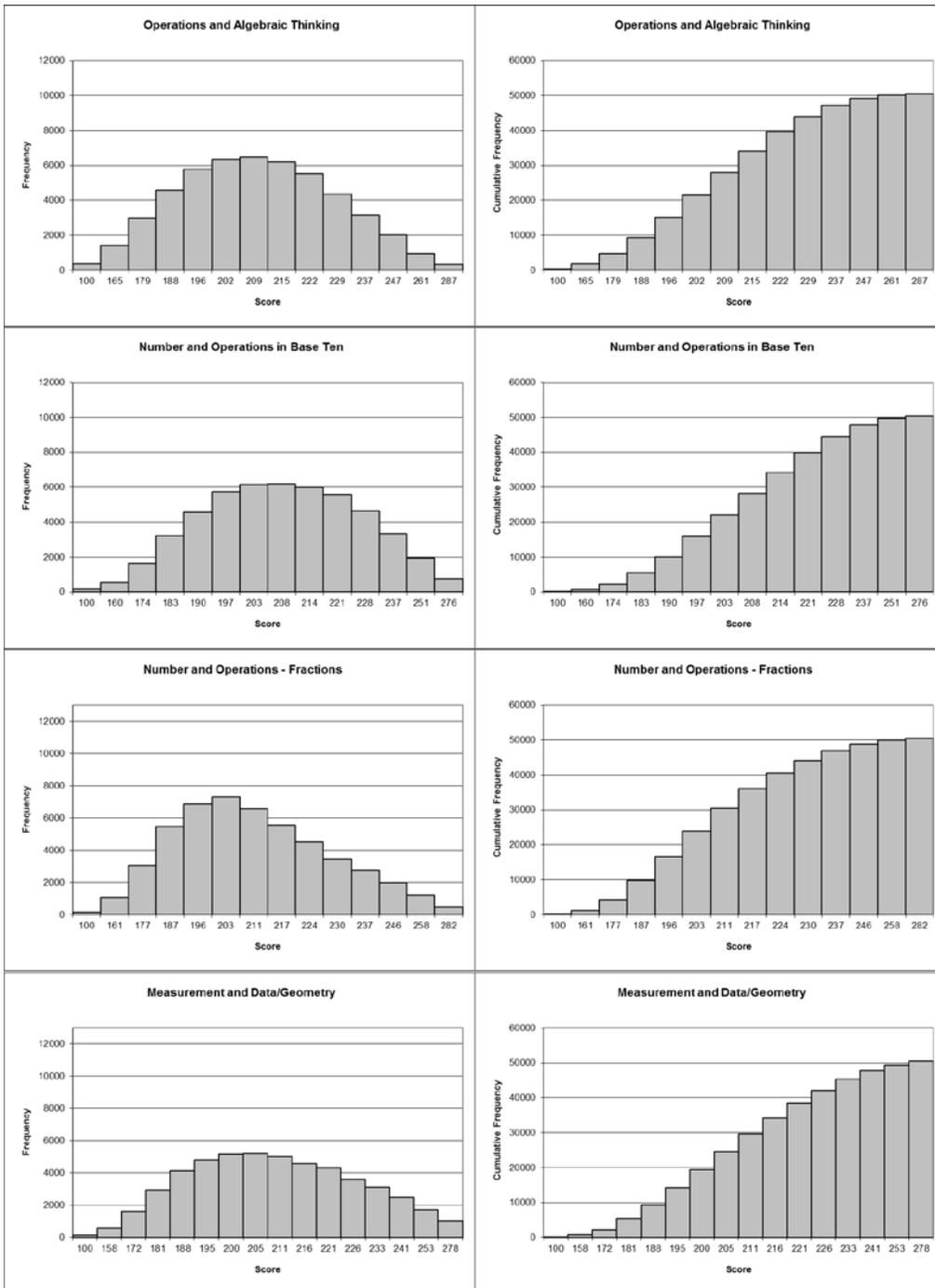
Figure 9. Mathematics Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions
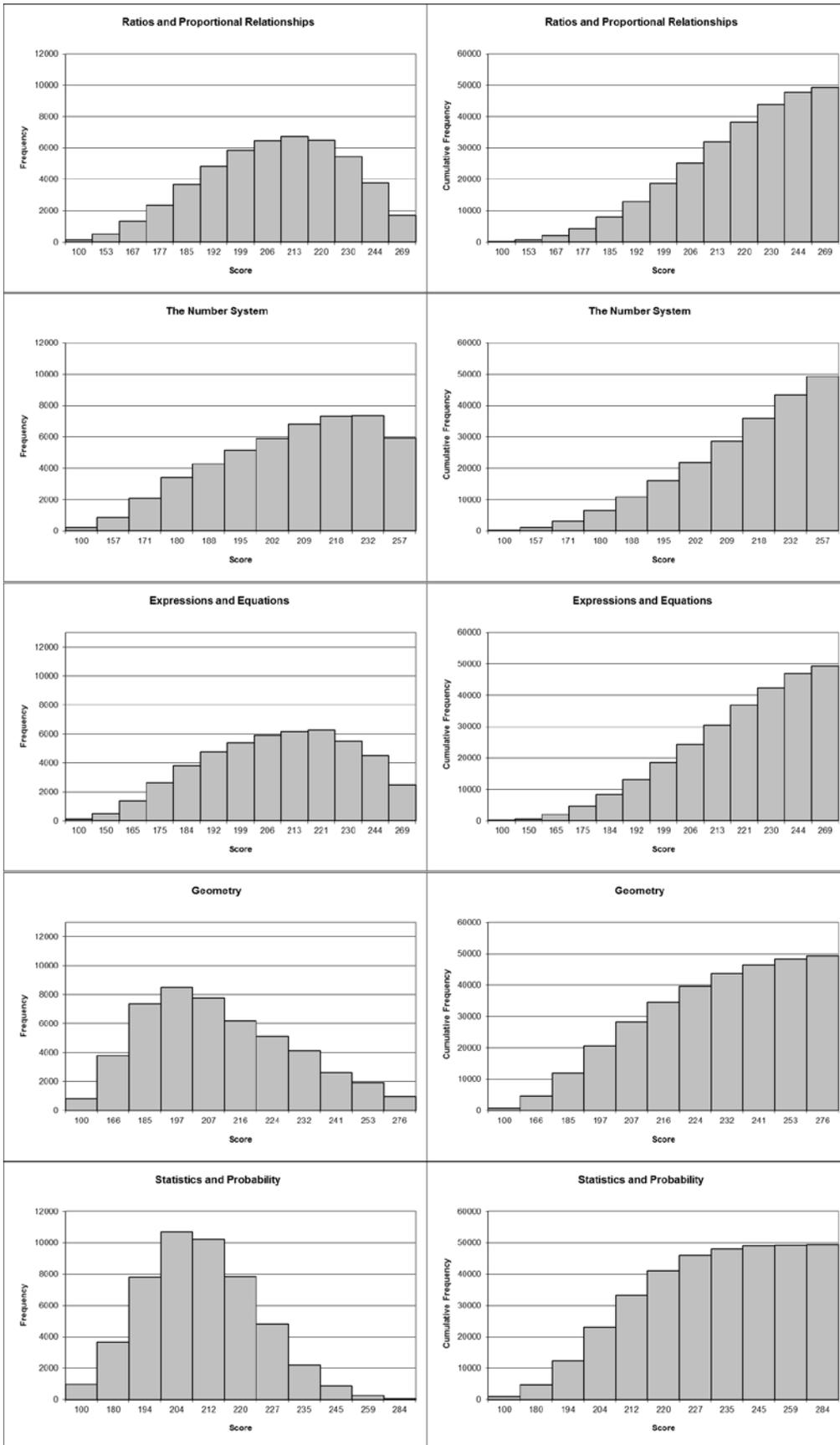
Figure 10. Mathematics Grade 6 Reporting Category Score Frequency and Cumulative Frequency Distributions
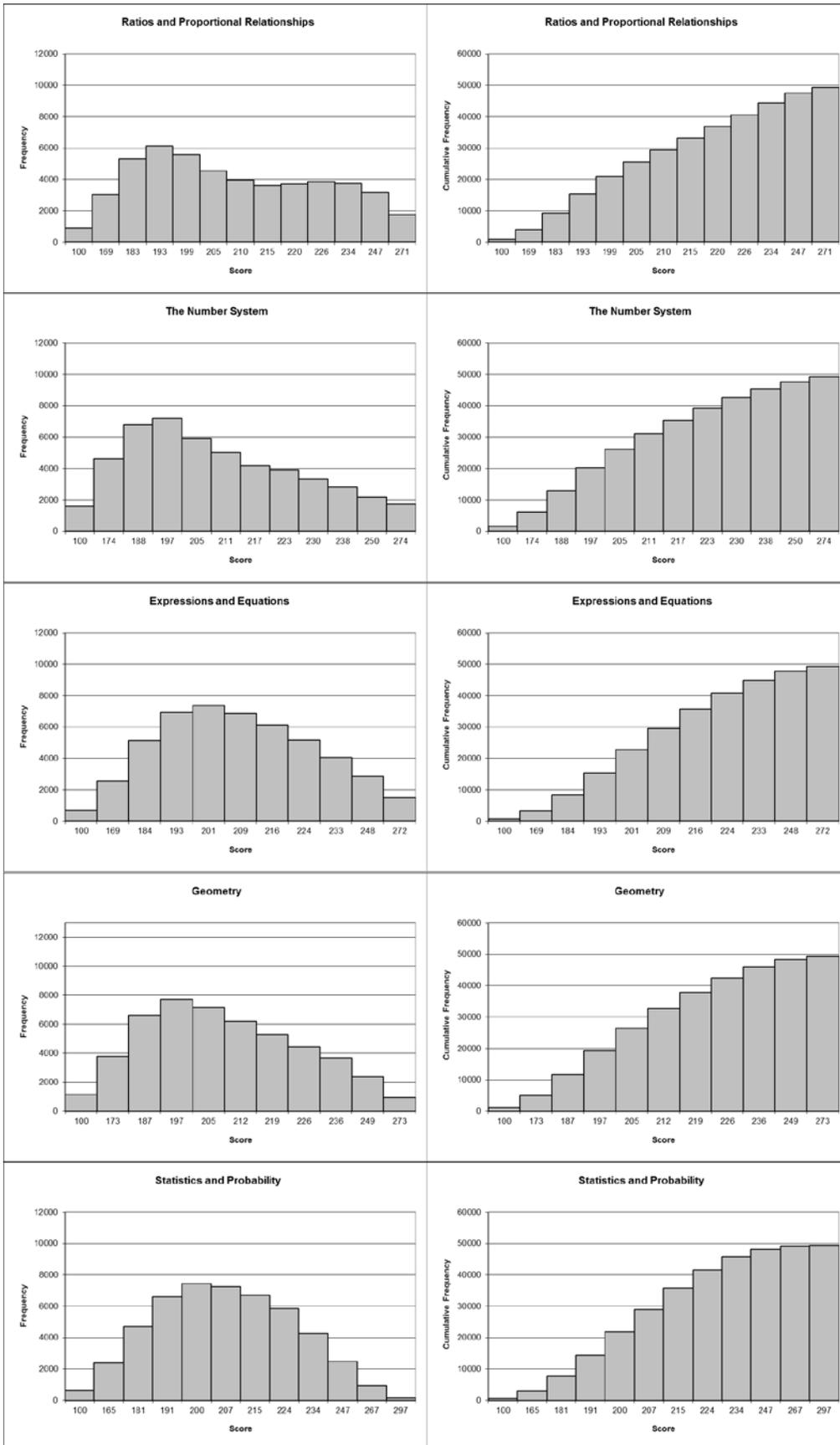
Figure 11. Mathematics Grade 7 Reporting Category Score Frequency and Cumulative Frequency Distributions
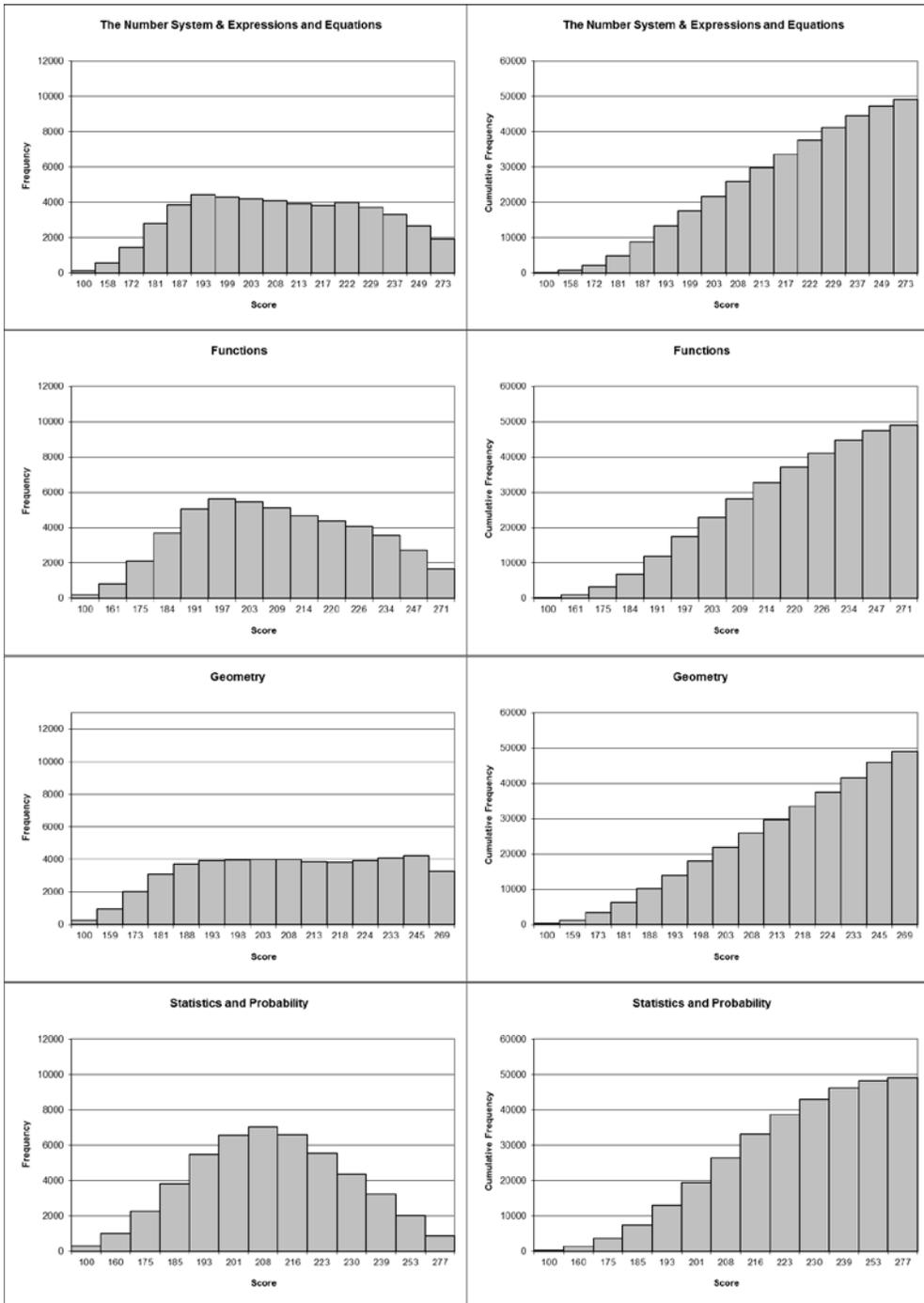
Figure 12. Mathematics Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions
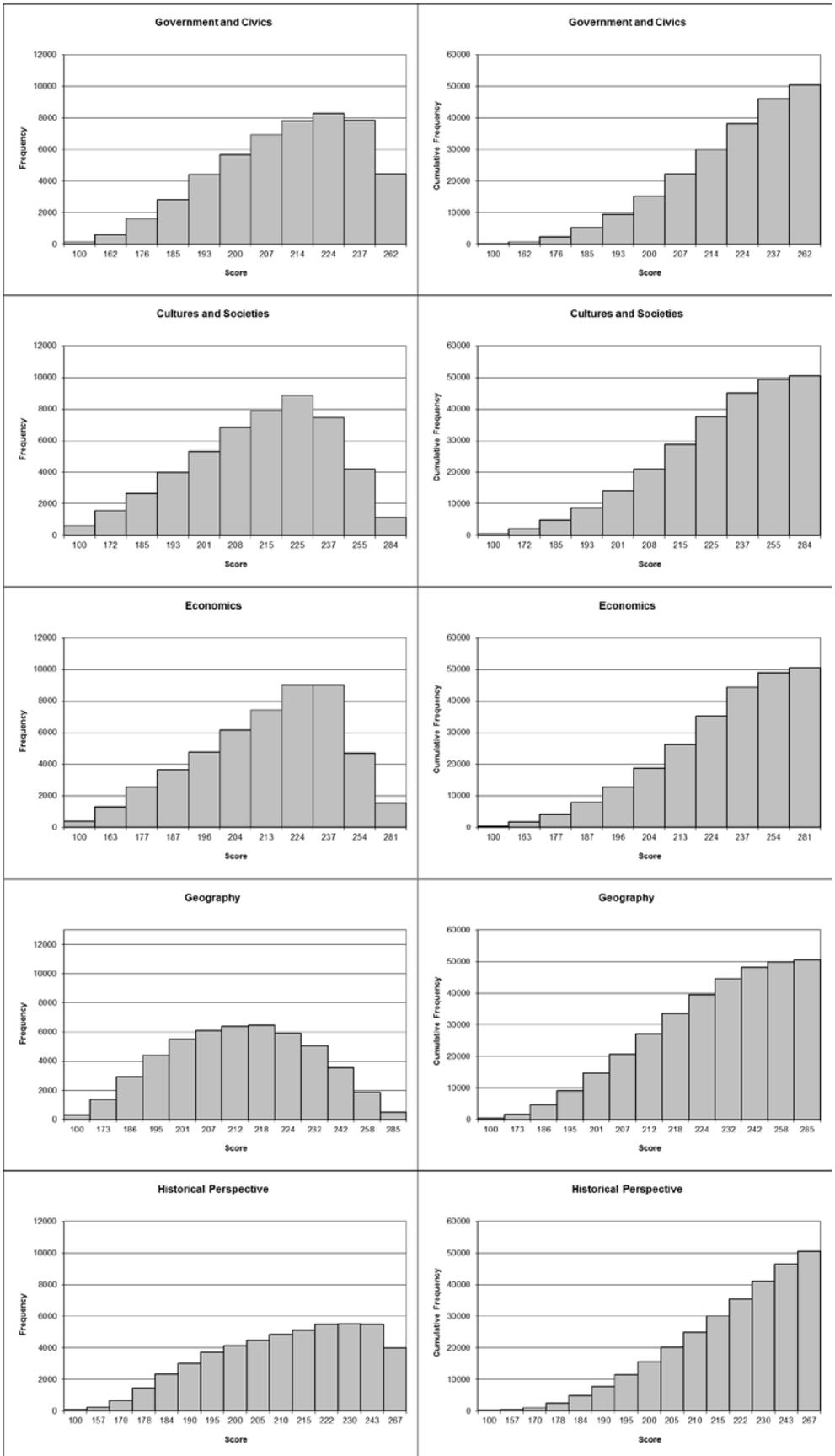
Figure 13. Social Studies Grade 5 Reporting Category Score Frequency and Cumulative Frequency Distributions
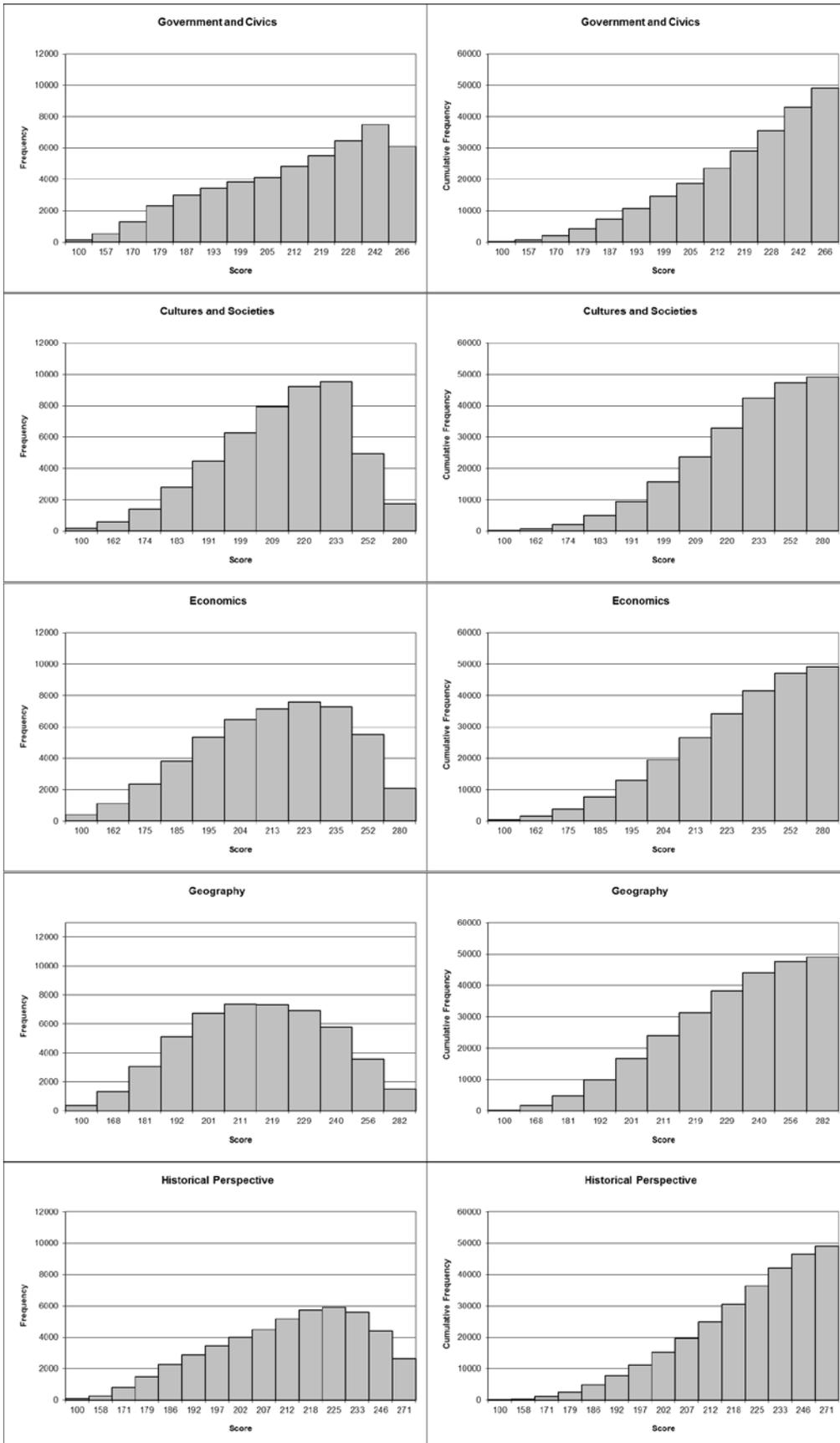
Figure 14. Social Studies Grade 8 Reporting Category Score Frequency and Cumulative Frequency Distributions

Appendix K. Scale Score Descriptive Statistics[56]

Grade 3 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,631	210.52	17.5	199	212	222	286	-0.11
Gender	Female	25,327	211.95	17.3	201	212	222	286	-0.10
	Male	26,252	209.14	17.7	197	210	222	286	-0.12
	Missing	52	207.15	19.3	193	208	220	250	-0.02
Ethnicity	Hispanic	3,850	205.34	17.1	195	205	217	286	-0.69
	Asian	830	215.08	20.3	203	217	229	286	-0.93
	Native Hawaiian/Pacific Islander	83	207.48	19.4	195	210	220	250	-0.39
	Black/African American	5,384	200.42	17.2	189	201	212	286	-0.07
	American Indian	59	207.93	17.3	193	214	222	250	-0.11
	White	39,137	212.42	17.0	201	212	222	286	-0.01
	Other	2,282	208.99	17.3	197	210	222	263	-0.12
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,438	210.56	17.5	199	212	222	286	-0.10
	Migrant	193	200.12	19.7	193	201	212	243	-2.07
LEP	Non-LEP	49,070	211.10	17.4	199	212	222	286	-0.03
	LEP	2,561	199.44	17.1	191	201	210	250	-1.66
Economic Disadvantage	Free Lunch	30,440	206.70	17.2	195	208	220	286	-0.04
	Reduced-Price Lunch	2,127	211.66	16.4	201	212	222	286	-0.18
	Regular Lunch	19,064	216.49	16.5	205	217	225	286	-0.21
IEP	Non-IEP	44,039	211.77	17.0	201	212	222	286	-0.12
	IEP	7,592	203.26	18.7	189	203	217	286	0.15

Grade 4 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,822	209.51	17.6	199	209	222	277	-0.21
Gender	Female	25,485	210.31	17.4	199	211	222	277	-0.21
	Male	26,287	208.75	17.7	197	209	220	277	-0.21
	Missing	50	205.28	19.8	193	209	220	250	0.04
Ethnicity	Hispanic	3,703	204.32	17.3	193	205	215	256	-0.66
	Asian	838	214.39	22.2	203	215	228	277	-1.57
	Native Hawaiian/Pacific Islander	72	205.19	16.5	194	205	214	241	0.16
	Black/African American	5,392	198.85	17.5	186	199	211	264	-0.13
	American Indian	64	205.50	20.6	186	205	220	264	0.17
	White	39,430	211.49	16.9	201	211	222	277	-0.10
	Other	2,319	207.41	16.9	197	207	220	264	-0.12
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,622	209.55	17.5	199	211	222	277	-0.19

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[5] Alternate K-PREP students are not included.
[6] Scale score statistics are not reported on n-counts less than 10.

	Migrant	200	199.26	21.7	190	202	213	234	-2.26
LEP	Non-LEP	50,189	210.04	17.3	199	211	222	277	-0.10
	LEP	1,633	193.44	19.0	184	195	205	241	-1.90
Economic Disadvantage	Free Lunch	29,917	205.17	16.9	193	205	218	277	-0.18
	Reduced-Price Lunch	2,290	211.33	16.2	201	211	222	277	-0.03
	Regular Lunch	19,615	215.93	16.7	205	218	228	277	-0.36
IEP	Non-IEP	44,718	210.75	17.2	199	211	222	277	-0.26
	IEP	7,104	201.70	18.1	188	201	213	277	0.18

Grade 5 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,460	211.58	16.3	199	212	223	279	-0.16
Gender	Female	24,495	213.24	16.0	203	213	225	279	-0.14
	Male	25,910	210.04	16.3	197	210	221	267	-0.14
	Missing	55	200.04	27.7	199	204	213	241	-2.57
Ethnicity	Hispanic	3,528	206.50	16.3	196	206	217	267	-0.73
	Asian	865	216.86	19.3	204	219	230	279	-0.93
	Native Hawaiian/Pacific Islander	58	206.97	17.9	196	205	217	253	0.33
	Black/African American	5,097	202.10	15.9	190	201	213	267	-0.17
	American Indian	68	210.35	17.6	198	212	222	253	-0.06
	White	38,804	213.27	15.7	203	213	225	279	-0.07
	Other	2,038	209.84	15.1	199	210	221	253	-0.01
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,283	211.62	16.2	199	212	223	279	-0.15
	Migrant	177	199.83	17.7	190	201	210	249	-1.88
LEP	Non-LEP	49,263	212.03	16.0	201	213	223	279	-0.05
	LEP	1,197	193.22	17.4	186	194	203	249	-2.47
Economic Disadvantage	Free Lunch	27,735	207.37	15.5	196	208	219	279	-0.08
	Reduced-Price Lunch	2,173	212.90	15.2	203	213	223	267	-0.08
	Regular Lunch	20,552	217.12	15.7	206	219	228	279	-0.37
IEP	Non-IEP	44,131	212.94	15.8	203	213	223	279	-0.21
	IEP	6,329	202.09	16.2	190	201	213	259	0.32

Grade 6 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,317	211.80	14.1	202	213	222	299	-0.21
Gender	Female	24,146	213.42	13.7	205	214	222	299	-0.18
	Male	25,145	210.24	14.3	200	211	221	264	-0.21
	Missing	26	209.04	13.2	200	210	217	236	0.02
Ethnicity	Hispanic	3,110	207.31	14.0	199	208	217	252	-0.82
	Asian	857	216.73	14.6	206	217	228	257	-0.17
	Native Hawaiian/Pacific Islander	60	208.85	12.7	199	208	218	239	0.30

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Black/African American	5,102	203.88	14.2	193	203	214	257	-0.32
	American Indian	60	212.07	13.9	203	214	222	244	-0.12
	White	38,304	213.20	13.7	203	214	222	299	-0.12
	Other	1,819	209.92	13.2	200	210	219	248	-0.05
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,166	211.83	14.1	202	213	222	299	-0.19
	Migrant	151	201.87	17.2	193	203	211	234	-2.72
LEP	Non-LEP	48,352	212.14	13.9	203	213	222	299	-0.10
	LEP	965	194.79	15.0	190	195	202	248	-2.95
Economic Disadvantage	Free Lunch	26,491	208.08	13.5	199	208	217	299	-0.18
	Reduced-Price Lunch	2,105	212.44	13.3	203	213	222	248	-0.18
	Regular Lunch	20,721	216.48	13.5	208	217	226	264	-0.33
IEP	Non-IEP	43,723	213.02	13.6	203	213	222	299	-0.24
	IEP	5,594	202.19	13.9	192	202	211	257	0.30

Grade 7 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,338	210.94	14.9	200	212	220	299	-0.29
Gender	Female	24,168	212.90	14.4	204	213	222	299	-0.26
	Male	25,131	209.07	15.2	199	208	220	276	-0.27
	Missing	39	199.00	21.4	190	199	210	235	-2.47
Ethnicity	Hispanic	2,870	206.58	15.3	197	207	217	251	-1.63
	Asian	877	217.14	16.7	207	218	228	299	0.04
	Native Hawaiian/Pacific Islander	53	209.38	13.7	202	210	220	240	-0.07
	Black/African American	5,038	201.99	14.5	192	202	212	247	-0.65
	American Indian	70	208.56	15.4	200	208	217	264	0.56
	White	38,829	212.36	14.4	202	213	222	299	-0.14
	Other	1,597	209.19	14.6	199	210	220	264	-0.12
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,177	210.97	14.9	200	212	220	299	-0.27
	Migrant	161	201.58	19.6	194	204	213	237	-2.48
LEP	Non-LEP	48,393	211.28	14.7	202	212	222	299	-0.15
	LEP	945	193.48	17.3	188	195	202	232	-3.15
Economic Disadvantage	Free Lunch	25,711	206.87	14.3	197	207	217	276	-0.42
	Reduced-Price Lunch	2,238	211.92	13.5	202	212	222	264	-0.02
	Regular Lunch	21,389	215.73	14.4	207	217	226	299	-0.27
IEP	Non-IEP	44,017	212.22	14.5	202	212	222	299	-0.34
	IEP	5,321	200.29	14.1	190	199	208	251	0.16

Grade 8 Reading

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,115	211.63	16.4	200	211	222	299	-0.15
Gender	Female	24,053	214.38	16.1	203	215	226	299	-0.08
	Male	25,036	209.00	16.4	198	210	220	275	-0.20
	Missing	26	201.81	15.3	191	202	213	228	-0.15
Ethnicity	Hispanic	2,818	207.31	17.1	196	208	218	263	-0.96
	Asian	860	218.09	19.4	206	220	231	263	-0.79
	Native Hawaiian/Pacific Islander	46	211.57	16.7	196	216	222	246	-0.24
	Black/African American	5,266	201.71	15.9	190	201	213	263	-0.06
	American Indian	61	210.44	15.3	201	210	220	246	0.12
	White	38,610	213.20	15.9	203	213	224	299	-0.04
	Other	1,453	210.39	16.0	200	210	222	263	-0.12
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,974	211.68	16.4	200	211	222	299	-0.11
	Migrant	141	194.05	26.2	184	198	210	239	-2.14
LEP	Non-LEP	48,141	212.06	16.2	201	213	222	299	-0.05
	LEP	974	190.60	16.5	184	191	200	242	-2.50
Economic Disadvantage	Free Lunch	24,987	207.08	15.5	196	208	218	275	-0.17
	Reduced-Price Lunch	2,148	212.38	15.3	201	213	222	275	-0.21
	Regular Lunch	21,980	216.73	16.0	206	217	228	299	-0.22
IEP	Non-IEP	44,103	213.24	15.8	203	213	224	299	-0.15
	IEP	5,012	197.47	15.1	186	196	206	256	0.25

Grade 3 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,631	209.97	19.4	196	210	222	297	0.29
Gender	Female	25,327	209.89	18.8	197	210	222	297	0.31
	Male	26,252	210.06	20.1	196	210	222	297	0.28
	Missing	52	205.75	20.5	191	204	221	260	0.31
Ethnicity	Hispanic	3,850	205.38	17.9	192	204	218	273	-0.01
	Asian	830	222.50	24.4	208	222	235	297	-0.21
	Native Hawaiian/Pacific Islander	83	208.49	19.8	194	208	222	273	0.33
	Black/African American	5,384	200.00	17.8	187	199	212	297	0.29
	American Indian	59	207.64	16.2	196	204	216	252	0.67
	White	39,137	211.68	19.2	199	212	224	297	0.32
	Other	2,282	207.54	18.5	194	208	220	273	0.20
	Missing	6	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,438	210.01	19.4	196	210	222	297	0.29
	Migrant	193	200.76	16.1	190	201	212	252	0.34
LEP	Non-LEP	49,070	210.45	19.4	197	210	222	297	0.32
	LEP	2,561	200.92	17.4	189	201	212	297	-0.42

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
Economic Disadvantage	Free Lunch	30,440	205.46	18.0	192	204	218	297	0.27
	Reduced-Price Lunch	2,127	211.29	18.0	199	212	222	297	0.25
	Regular Lunch	19,064	217.03	19.6	204	216	229	297	0.23
IEP	Non-IEP	44,039	211.54	19.0	199	212	224	297	0.30
	IEP	7,592	200.87	19.7	187	199	214	297	0.58

Grade 4 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,822	210.68	18.5	197	209	223	297	0.49
Gender	Female	25,485	210.18	18.0	197	209	221	297	0.53
	Male	26,287	211.18	19.0	197	209	223	297	0.44
	Missing	50	205.34	17.0	191	203	214	255	0.70
Ethnicity	Hispanic	3,703	205.87	17.5	194	203	217	297	0.22
	Asian	838	221.79	22.1	208	221	237	297	-0.26
	Native Hawaiian/Pacific Islander	72	203.61	17.1	190	204	218	246	0.23
	Black/African American	5,392	200.72	16.0	189	199	211	274	0.32
	American Indian	64	209.31	18.3	196	206	221	262	0.70
	White	39,430	212.42	18.3	199	211	225	297	0.52
	Other	2,319	208.14	17.8	196	206	218	297	0.69
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,622	210.72	18.5	197	209	223	297	0.50
	Migrant	200	201.04	22.2	191	200	212	274	-1.19
LEP	Non-LEP	50,189	211.14	18.4	197	209	223	297	0.54
	LEP	1,633	196.55	17.2	188	196	205	255	-1.02
Economic Disadvantage	Free Lunch	29,917	206.13	16.8	194	205	217	297	0.47
	Reduced-Price Lunch	2,290	212.38	17.4	199	212	223	297	0.44
	Regular Lunch	19,615	217.43	19.0	203	217	230	297	0.39
IEP	Non-IEP	44,718	212.13	18.3	199	211	223	297	0.47
	IEP	7,104	201.54	17.5	189	197	212	297	0.81

Grade 5 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,460	209.86	17.4	197	208	220	300	0.43
Gender	Female	24,495	209.85	16.5	197	208	220	300	0.40
	Male	25,910	209.90	18.1	197	208	222	300	0.47
	Missing	55	195.31	27.8	190	196	210	252	-1.98
Ethnicity	Hispanic	3,528	205.43	16.0	194	205	216	269	-0.27
	Asian	865	222.43	22.6	208	222	236	300	-0.12
	Native Hawaiian/Pacific Islander	58	206.48	14.7	196	205	217	243	0.40
	Black/African American	5,097	200.94	14.9	190	199	210	281	0.03
	American Indian	68	211.29	16.4	199	208	223	252	0.43

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	White	38,804	211.28	17.2	199	210	222	300	0.48
	Other	2,038	207.50	16.7	196	205	217	281	0.61
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,283	209.89	17.4	197	208	220	300	0.44
	Migrant	177	199.60	17.0	190	199	210	245	-2.03
LEP	Non-LEP	49,263	210.21	17.2	197	208	222	300	0.53
	LEP	1,197	195.20	17.6	189	196	204	245	-2.25
Economic Disadvantage	Free Lunch	27,735	205.34	15.5	194	204	216	300	0.37
	Reduced-Price Lunch	2,173	211.28	16.3	199	211	222	300	0.33
	Regular Lunch	20,552	215.81	18.1	202	216	227	300	0.31
IEP	Non-IEP	44,131	211.12	17.2	199	210	222	300	0.40
	IEP	6,329	201.04	16.3	189	197	210	281	0.82

Grade 6 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,317	208.93	17.0	197	208	221	300	0.15
Gender	Female	24,146	210.02	16.5	199	210	221	300	0.14
	Male	25,145	207.89	17.4	195	206	219	300	0.18
	Missing	26	205.50	15.0	195	207	216	234	-0.18
Ethnicity	Hispanic	3,110	204.52	15.7	194	203	214	265	0.10
	Asian	857	220.81	19.2	208	221	234	300	0.19
	Native Hawaiian/Pacific Islander	60	206.82	15.4	195	206	219	234	0.01
	Black/African American	5,102	198.93	15.5	189	197	210	258	0.06
	American Indian	60	208.93	17.3	194	209	223	258	0.38
	White	38,304	210.50	16.7	199	210	223	300	0.13
	Other	1,819	205.86	16.3	194	205	216	277	0.37
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,166	208.96	17.0	197	208	221	300	0.15
	Migrant	151	200.26	16.3	190	200	210	234	-1.34
LEP	Non-LEP	48,352	209.26	16.9	197	210	221	300	0.19
	LEP	965	192.28	15.4	185	192	200	239	-1.35
Economic Disadvantage	Free Lunch	26,491	204.14	15.6	192	203	214	300	0.17
	Reduced-Price Lunch	2,105	209.49	15.9	199	210	219	265	0.15
	Regular Lunch	20,721	214.99	16.9	203	216	226	300	0.01
IEP	Non-IEP	43,723	210.39	16.6	199	210	221	300	0.14
	IEP	5,594	197.48	15.8	187	195	206	265	0.51

Grade 7 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,338	208.30	18.0	194	206	220	300	0.38
Gender	Female	24,168	208.73	17.6	196	206	220	300	0.40
	Male	25,131	207.91	18.4	194	206	220	300	0.37

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Missing	39	192.23	18.3	185	194	203	215	-3.35
Ethnicity	Hispanic	2,870	202.92	16.8	192	200	212	284	-0.36
	Asian	877	221.71	22.4	205	220	237	300	0.31
	Native Hawaiian/Pacific Islander	53	208.68	20.5	196	205	216	284	1.51
	Black/African American	5,038	198.14	15.1	189	196	206	271	0.03
	American Indian	70	202.74	17.3	191	199	211	257	0.89
	White	38,829	209.81	17.7	196	207	222	300	0.40
	Other	1,597	206.03	17.5	194	203	216	284	0.45
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,177	208.33	18.0	194	206	220	300	0.38
	Migrant	161	198.15	17.0	191	197	205	248	-1.83
LEP	Non-LEP	48,393	208.61	17.9	196	206	220	300	0.43
	LEP	945	192.14	17.2	187	192	199	284	-1.70
Economic Disadvantage	Free Lunch	25,711	203.04	15.9	192	200	212	300	0.28
	Reduced-Price Lunch	2,238	208.61	16.3	196	207	220	284	0.45
	Regular Lunch	21,389	214.58	18.5	200	214	228	300	0.28
IEP	Non-IEP	44,017	209.57	17.9	196	207	222	300	0.33
	IEP	5,321	197.81	15.4	189	194	203	300	0.84

Grade 8 Mathematics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,115	210.23	19.4	196	208	222	296	0.48
Gender	Female	24,053	211.67	18.7	197	210	224	296	0.49
	Male	25,036	208.85	19.9	194	207	221	296	0.51
	Missing	26	195.54	15.2	184	194	204	236	0.71
Ethnicity	Hispanic	2,818	205.77	18.0	194	204	216	296	-0.08
	Asian	860	225.55	23.5	210	226	241	296	-0.02
	Native Hawaiian/Pacific Islander	46	212.33	23.0	196	207	227	273	0.73
	Black/African American	5,266	199.47	16.7	188	197	210	296	0.26
	American Indian	61	207.79	16.5	196	207	219	254	0.40
	White	38,610	211.78	19.1	197	210	224	296	0.54
	Other	1,453	207.54	18.8	193	207	219	296	0.41
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,974	210.26	19.4	196	208	222	296	0.50
	Migrant	141	198.28	23.2	188	200	214	249	-2.02
LEP	Non-LEP	48,141	210.56	19.3	196	208	222	296	0.52
	LEP	974	193.85	17.5	184	193	203	261	-1.25
Economic Disadvantage	Free Lunch	24,987	204.87	17.4	193	203	215	296	0.43
	Reduced-Price Lunch	2,148	211.76	18.0	199	210	224	296	0.53
	Regular Lunch	21,980	216.17	19.9	202	215	229	296	0.41
IEP	Non-IEP	44,103	211.89	19.1	197	211	224	296	0.46
	IEP	5,012	195.59	15.1	186	193	203	296	0.89

Grade 5 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,460	214.64	17.8	202	214	227	300	0.15
Gender	Female	24,495	214.14	17.4	202	213	225	300	0.27
	Male	25,910	215.14	18.1	202	216	227	300	0.06
	Missing	55	199.09	29.3	190	205	214	255	-1.96
Ethnicity	Hispanic	3,528	209.01	17.3	197	209	220	282	-0.44
	Asian	865	221.89	23.2	207	222	237	300	-0.22
	Native Hawaiian/Pacific Islander	58	208.64	16.4	198	207	222	255	0.62
	Black/African American	5,097	203.96	16.5	192	202	214	269	-0.09
	American Indian	68	216.84	17.3	206	217	227	269	0.31
	White	38,804	216.53	17.3	205	216	227	300	0.23
	Other	2,038	212.00	16.3	200	211	224	282	0.37
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,283	214.68	17.8	202	214	227	300	0.15
	Migrant	177	202.73	18.1	193	202	213	269	-1.49
LEP	Non-LEP	49,263	215.13	17.5	202	214	227	300	0.26
	LEP	1,197	194.54	17.9	187	194	203	239	-2.26
Economic Disadvantage	Free Lunch	27,735	209.92	16.5	198	209	220	300	0.14
	Reduced-Price Lunch	2,173	216.21	16.2	205	216	227	300	0.22
	Regular Lunch	20,552	220.84	17.8	209	220	232	300	0.04
IEP	Non-IEP	44,131	216.20	17.3	203	216	227	300	0.15
	IEP	6,329	203.73	17.7	190	201	216	300	0.57

Grade 8 Social Studies

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,115	215.73	20.5	201	216	229	300	0.09
Gender	Female	24,053	216.45	19.8	203	216	229	300	0.14
	Male	25,036	215.05	21.2	198	215	229	300	0.06
	Missing	26	204.04	21.0	188	203	218	260	0.92
Ethnicity	Hispanic	2,818	210.10	20.3	195	210	223	300	-0.38
	Asian	860	226.14	24.4	210	227	242	300	-0.39
	Native Hawaiian/Pacific Islander	46	215.91	22.0	195	217	232	268	0.27
	Black/African American	5,266	203.02	19.0	189	201	216	300	0.02
	American Indian	61	215.46	18.9	200	215	227	255	0.38
	White	38,610	217.74	19.9	203	218	232	300	0.16
	Other	1,453	213.11	20.4	198	212	225	281	0.01
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,974	215.79	20.5	201	216	229	300	0.11
	Migrant	141	197.18	27.7	188	200	215	250	-1.90
LEP	Non-LEP	48,141	216.21	20.3	201	216	229	300	0.14
	LEP	974	191.94	17.8	185	192	201	242	-2.19

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
Economic Disadvantage	Free Lunch	24,987	209.80	19.0	195	208	223	300	0.10
	Reduced-Price Lunch	2,148	217.05	19.1	204	216	229	300	0.28
	Regular Lunch	21,980	222.35	20.3	208	223	237	300	-0.03
IEP	Non-IEP	44,103	217.74	19.9	204	218	232	300	0.08
	IEP	5,012	198.03	17.4	186	195	207	300	0.52

Grade 4 Language Mechanics[7]

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	51,772	642.32	42.0	616	639	670	747	0.18
Gender	Female	25,462	648.42	41.8	621	645	670	747	0.15
	Male	26,260	636.41	41.3	605	639	661	747	0.21
	Missing	50	633.52	47.7	605	632	661	747	0.29
Ethnicity	Hispanic	3,688	631.49	38.9	605	632	661	747	0.29
	Asian	829	659.10	44.1	632	661	682	747	-0.01
	Native Hawaiian/Pacific Islander	72	630.08	38.5	603	630	661	724	0.11
	Black/African American	5,383	619.43	39.7	590	616	645	747	0.38
	American Indian	64	636.16	50.9	603	627	670	747	0.54
	White	39,414	646.37	41.3	621	645	670	747	0.16
	Other	2,318	638.34	40.8	610	639	661	747	0.25
	Missing	4	--	--	--	--	--	--	--
Migrant	Non-Migrant	51,577	642.39	42.0	616	639	670	747	0.18
	Migrant	195	622.80	39.7	590	621	645	747	0.45
LEP	Non-LEP	50,170	643.42	41.8	616	645	670	747	0.17
	LEP	1,602	607.76	32.2	584	605	627	747	0.46
Economic Disadvantage	Free Lunch	29,885	631.65	39.4	605	632	661	747	0.24
	Reduced-Price Lunch	2,290	645.86	39.3	621	645	670	747	0.07
	Regular Lunch	19,597	658.17	40.9	632	661	682	747	0.06
IEP	Non-IEP	44,671	646.83	40.7	621	645	670	747	0.18
	IEP	7,101	613.93	38.8	584	610	639	747	0.53

Grade 6 Language Mechanics

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,218	659.22	42.2	628	656	688	766	0.25
Gender	Female	24,104	666.61	40.9	639	663	688	766	0.22
	Male	25,088	652.13	42.2	623	650	679	766	0.32
	Missing	26	651.88	41.2	628	650	679	742	0.01
Ethnicity	Hispanic	3,101	647.81	38.5	623	644	670	766	0.45
	Asian	856	674.60	45.2	644	670	700	766	-0.04

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[7] Language Mechanics is not on the same scale metric as the previous subjects.

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
	Native Hawaiian/Pacific Islander	60	653.30	37.5	626	650	679	766	0.55
	Black/African American	5,085	637.93	39.6	608	634	663	766	0.43
	American Indian	60	657.38	41.1	631	660	679	766	0.27
	White	38,238	662.91	41.7	634	663	688	766	0.22
	Other	1,813	653.80	40.4	623	650	679	766	0.31
	Missing	5	--	--	--	--	--	--	--
Migrant	Non-Migrant	49,069	659.31	42.2	628	656	688	766	0.24
	Migrant	149	631.40	33.4	608	628	656	716	0.23
LEP	Non-LEP	48,267	660.11	41.9	634	656	688	766	0.24
	LEP	951	614.15	28.9	592	613	634	742	0.48
Economic Disadvantage	Free Lunch	26,420	647.62	39.0	618	644	670	766	0.32
	Reduced-Price Lunch	2,100	660.80	39.9	634	660	688	766	0.19
	Regular Lunch	20,698	673.88	41.7	644	670	700	766	0.11
IEP	Non-IEP	43,649	663.78	40.7	634	663	688	766	0.26
	IEP	5,569	623.54	35.6	598	618	644	766	0.67

Grade 5 On-Demand Writing[8]

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	50,460	226.19	35.8	208	231	248	300	-0.47
Gender	Female	24,495	235.33	33.2	208	240	261	300	-0.61
	Male	25,910	217.60	36.0	185	230	240	300	-0.33
	Missing	55	198.44	48.8	176	208	231	275	-0.70
Ethnicity	Hispanic	3,528	218.56	36.3	185	230	248	300	-0.41
	Asian	865	239.00	36.4	208	240	262	300	-0.78
	Native Hawaiian/Pacific Islander	58	222.31	39.2	208	231	248	284	-0.45
	Black/African American	5,097	209.67	36.8	185	208	239	300	-0.24
	American Indian	68	219.15	34.3	185	230	248	300	-0.18
	White	38,804	228.95	34.9	208	231	248	300	-0.50
	Other	2,038	222.93	34.6	208	231	248	300	-0.34
	Missing	2	--	--	--	--	--	--	--
Migrant	Non-Migrant	50,283	226.24	35.8	208	231	248	300	-0.47
	Migrant	177	211.09	40.1	176	208	240	294	-0.35
LEP	Non-LEP	49,263	226.98	35.4	208	231	248	300	-0.47
	LEP	1,197	193.73	37.9	167	185	230	300	-0.04
Economic Disadvantage	Free Lunch	27,735	219.02	35.9	208	230	240	300	-0.37
	Reduced-Price Lunch	2,173	228.54	34.4	208	231	248	300	-0.49
	Regular Lunch	20,552	235.61	33.6	208	240	262	300	-0.62
IEP	Non-IEP	44,131	230.27	33.2	208	231	248	300	-0.46
	IEP	6,329	197.68	40.3	167	185	231	300	0.20

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[8] On Demand Writing is reported on a scale score metric of 100-300 with 'Proficient' at 235.

Grade 8 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	49,115	222.51	33.0	199	224	242	286	-0.61
Gender	Female	24,053	232.72	29.3	213	232	255	286	-0.73
	Male	25,036	212.73	33.5	199	215	242	286	-0.47
	Missing	26	202.62	26.7	185	201	213	264	0.40
Ethnicity	Hispanic	2,818	215.54	32.4	199	221	242	286	-0.61
	Asian	860	235.73	35.1	221	242	264	286	-1.19
	Native Hawaiian/Pacific Islander	46	224.22	34.3	203	226	255	286	-0.69
	Black/African American	5,266	205.17	34.1	185	203	230	286	-0.42
	American Indian	61	226.00	28.5	203	230	242	286	-0.35
	White	38,610	225.18	32.1	203	230	244	286	-0.63
	Other	1,453	220.00	32.5	199	221	242	286	-0.53
	Missing	1	--	--	--	--	--	--	--
Migrant	Non-Migrant	48,974	222.59	33.0	199	224	242	286	-0.61
	Migrant	141	195.33	40.0	176	199	221	273	-0.51
LEP	Non-LEP	48,141	223.20	32.6	199	224	242	286	-0.60
	LEP	974	188.55	35.0	166	190	213	273	-0.43
Economic Disadvantage	Free Lunch	24,987	214.83	33.1	199	221	242	286	-0.55
	Reduced-Price Lunch	2,148	225.26	30.0	203	230	242	286	-0.53
	Regular Lunch	21,980	230.98	31.0	213	230	255	286	-0.71
IEP	Non-IEP	44,103	226.68	30.2	213	230	244	286	-0.57
	IEP	5,012	185.82	34.6	149	185	213	286	0.07

Grade 11 On-Demand Writing

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
All	Students Tested	45,818	234.63	36.3	212	235	261	300	-0.78
Gender	Female	22,661	243.51	33.1	226	244	261	300	-1.01
	Male	23,128	225.96	37.3	199	226	246	300	-0.59
	Missing	29	208.86	45.8	180	199	236	297	-0.10
Ethnicity	Hispanic	2,109	227.11	37.4	212	235	261	300	-0.79
	Asian	782	248.40	36.4	226	261	278	300	-0.98
	Native Hawaiian/Pacific Islander	44	234.27	45.2	213	235	261	300	-1.04
	Black/African American	4,783	219.88	39.3	198	226	244	300	-0.86
	American Indian	60	234.62	44.5	212	244	262	297	-1.33
	White	36,935	236.78	35.2	212	236	261	300	-0.73
	Other	1,102	231.21	37.3	212	235	261	300	-0.87
	Missing	3	--	--	--	--	--	--	--
Migrant	Non-Migrant	45,743	234.67	36.3	212	235	261	300	-0.78
	Migrant	75	212.59	34.7	189	213	235	297	0.09

	Subgroup	N	Mean	SD	P25	Median	P75	Max	Skew
LEP	Non-LEP	45,119	235.21	36.1	212	235	261	300	-0.79
	LEP	699	197.21	33.6	180	198	226	297	-0.58
Economic Disadvantage	Free Lunch	20,165	225.66	36.3	212	227	244	300	-0.73
	Reduced-Price Lunch	2,027	235.58	33.2	212	235	261	300	-0.63
	Regular Lunch	23,626	242.21	34.8	226	244	261	300	-0.89
IEP	Non-IEP	42,121	238.00	34.7	213	236	261	300	-0.88
	IEP	3,697	196.28	32.9	180	198	213	300	-0.08

Appendix L. NPR Frequency Distributions[9]

(SAT10 National Percentile Ranks)
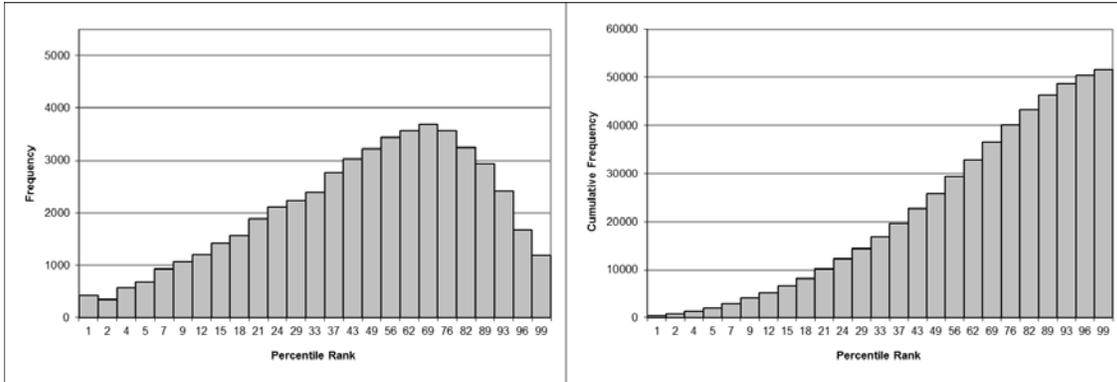
Figure 1. Reading Grade 3 NPR Frequency and Cumulative Frequency Distributions
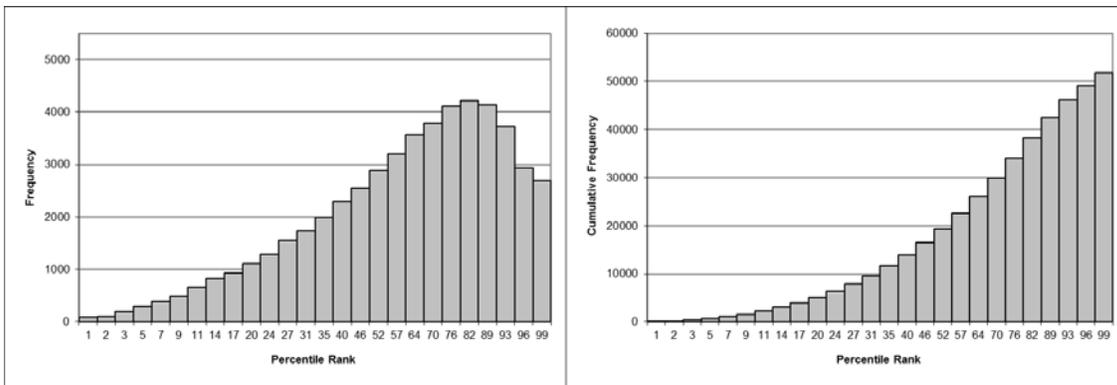
Figure 2. Reading Grade 4 NPR Frequency and Cumulative Frequency Distributions
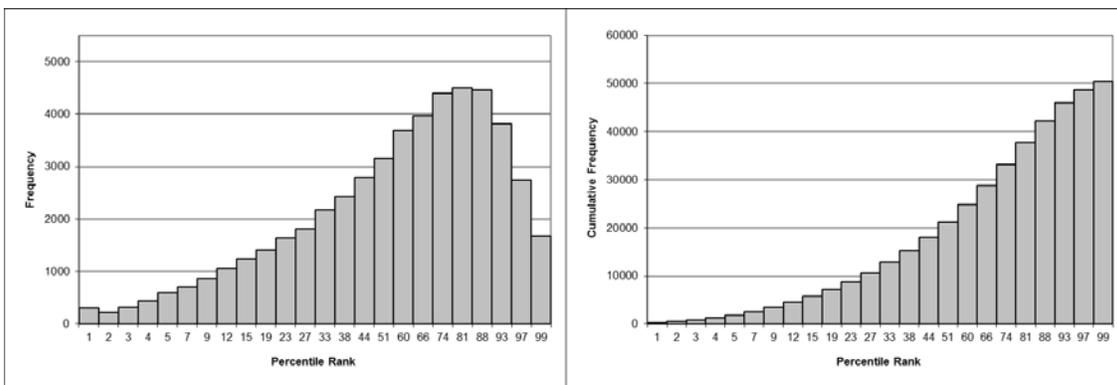
Figure 3. Reading Grade 5 NPR Frequency and Cumulative Frequency Distributions

[9] Alternate K-PREP students are not included.
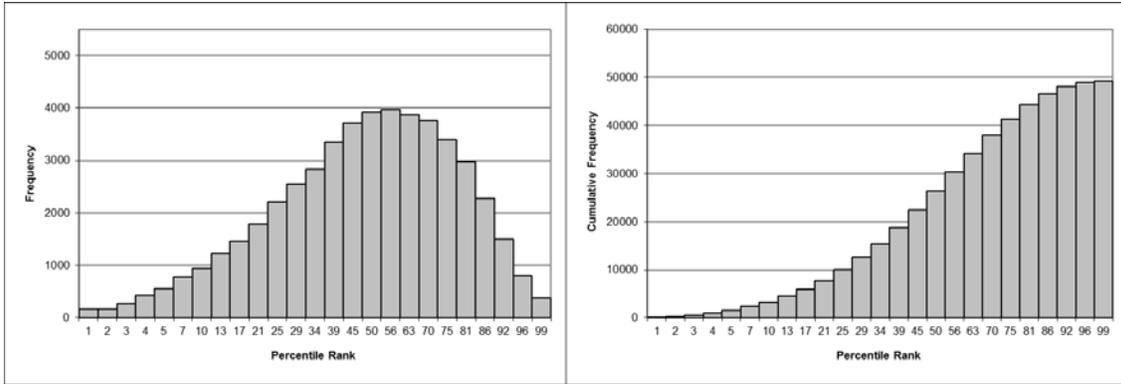
**Figure 4.** Reading Grade 6 NPR Frequency and Cumulative Frequency Distributions
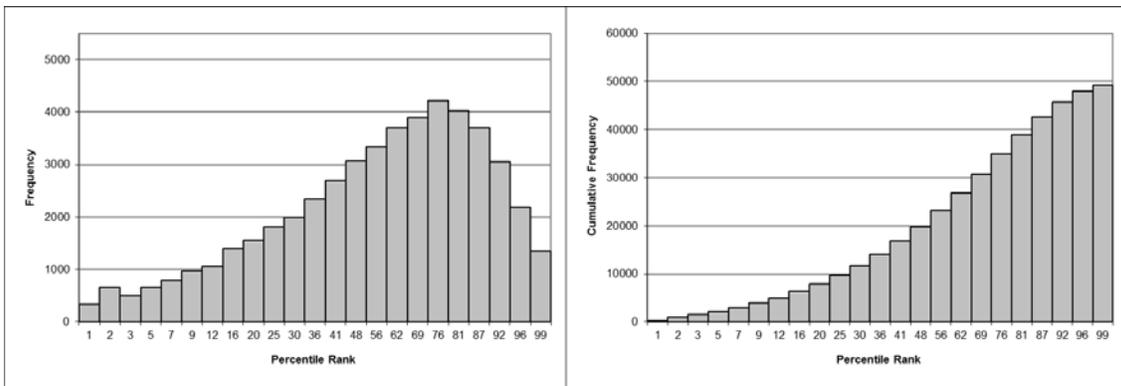
**Figure 5.** Reading Grade 7 NPR Frequency and Cumulative Frequency Distributions
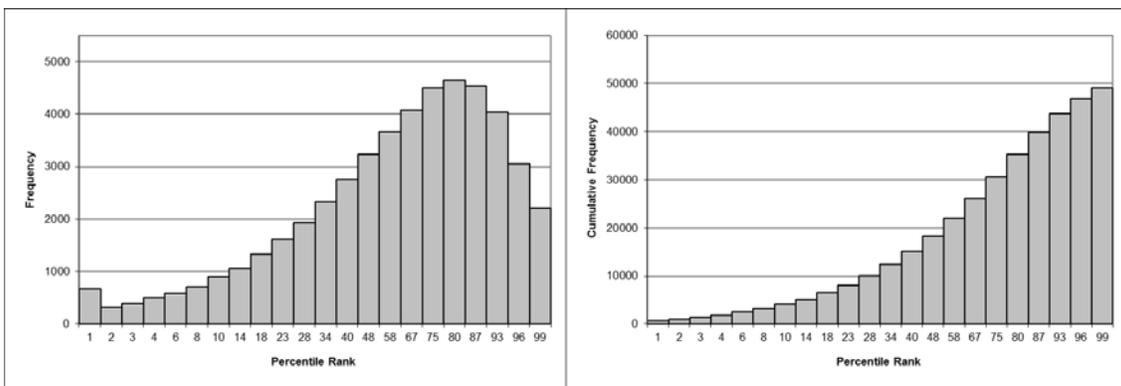
Figure 6. Reading Grade 8 NPR Frequency and Cumulative Frequency Distributions
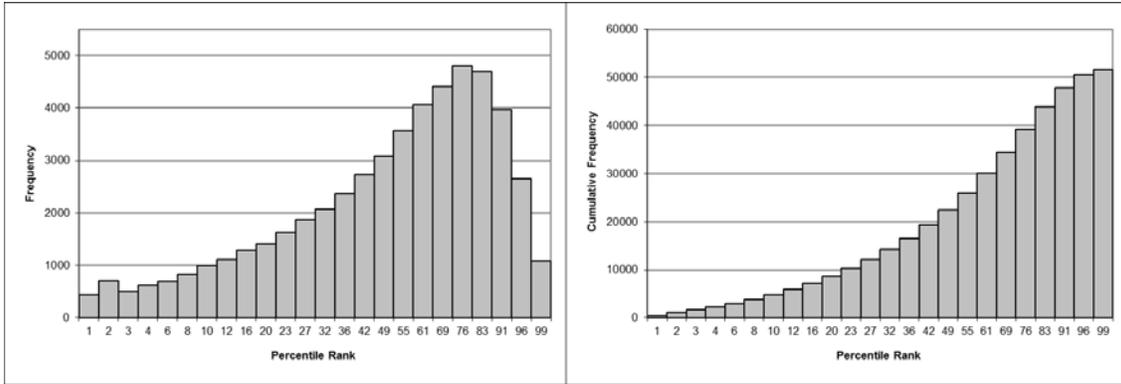
Figure 7. Mathematics Grade 3 NPR Frequency and Cumulative Frequency Distributions
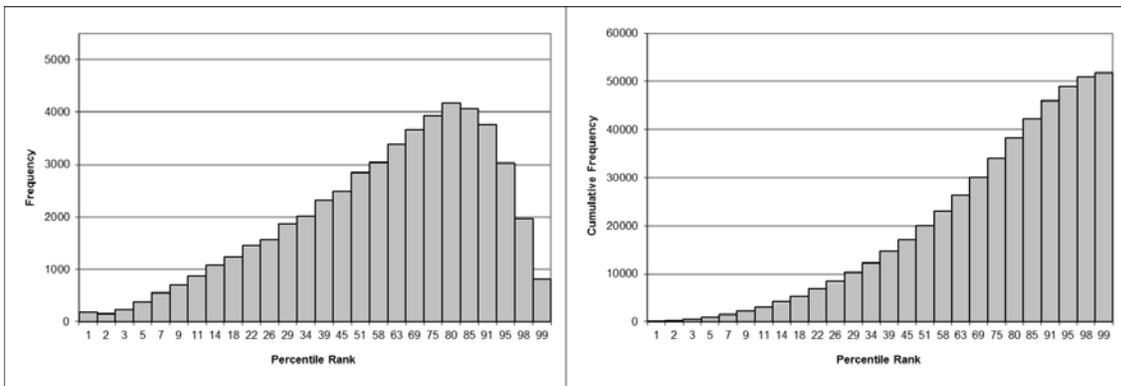
Figure 8. Mathematics Grade 4 NPR Frequency and Cumulative Frequency Distributions
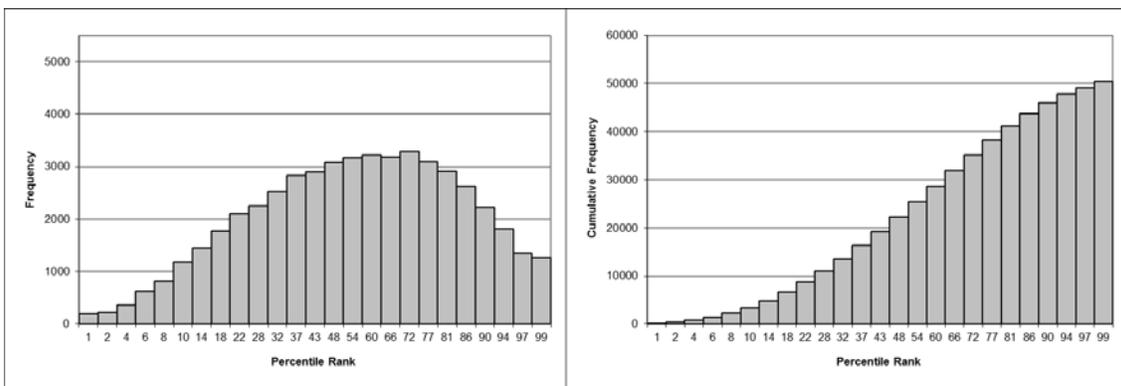
Figure 9. Mathematics Grade 5 NPR Frequency and Cumulative Frequency Distributions
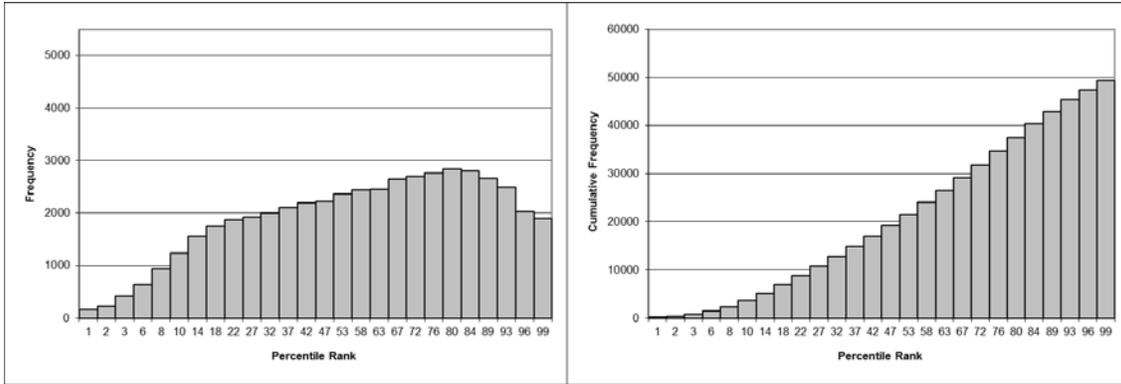
Figure 10. Mathematics Grade 6 NPR Frequency and Cumulative Frequency Distributions
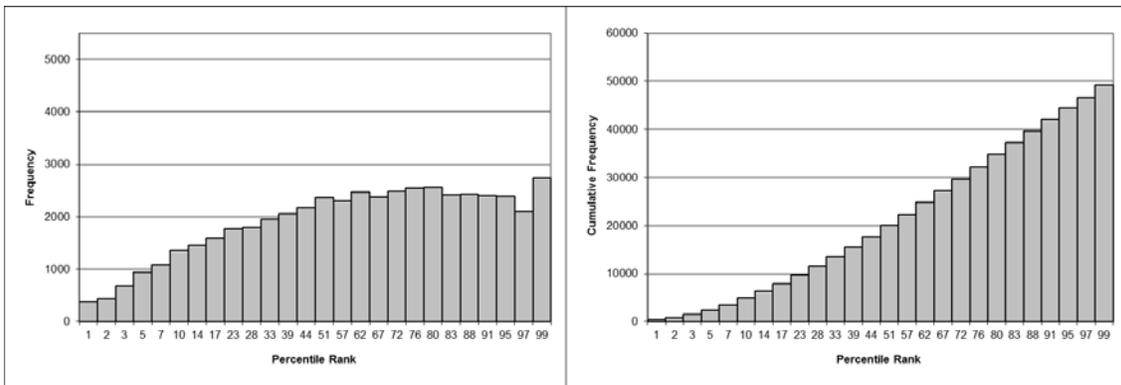
Figure 11. Mathematics Grade 7 NPR Frequency and Cumulative Frequency Distributions
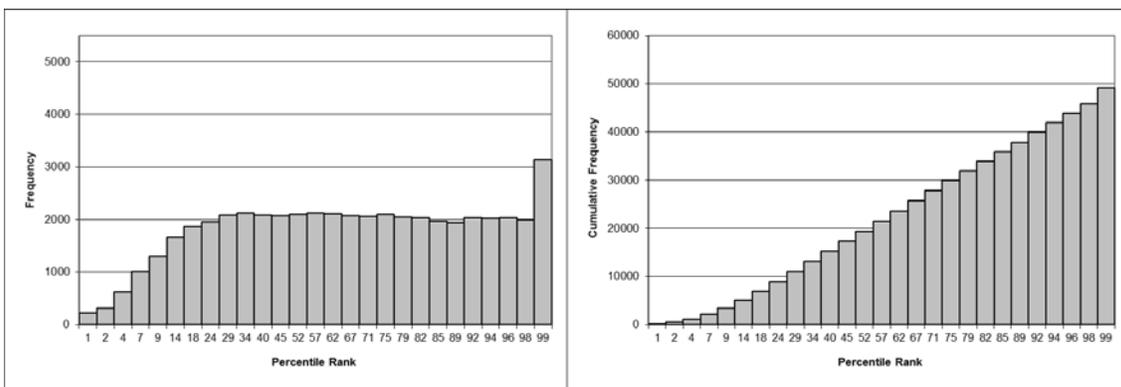
**Figure 12.** Mathematics Grade 8 NPR Frequency and Cumulative Frequency Distributions
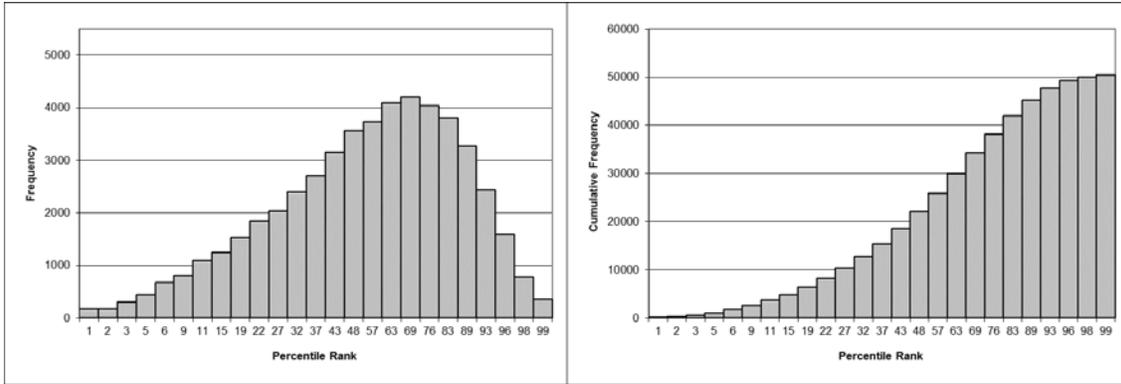
Figure 13. Social Studies Grade 5 NPR Frequency and Cumulative Frequency Distributions
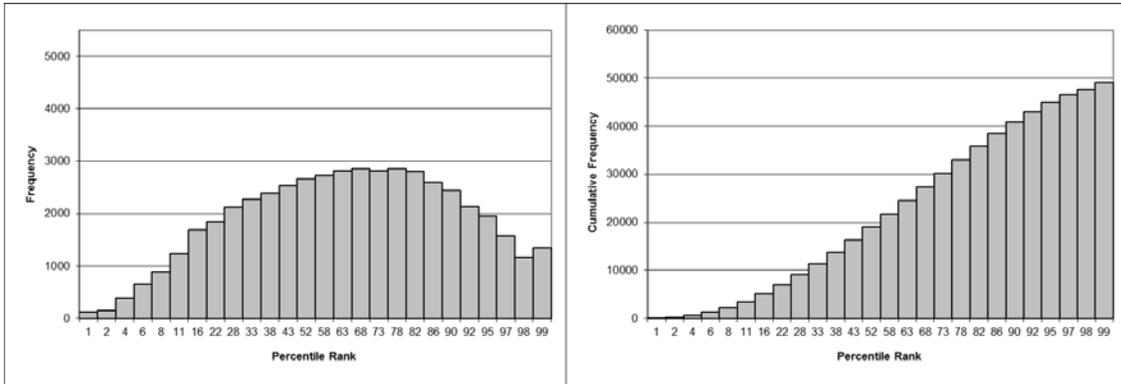
Figure 14. Social Studies Grade 8 NPR Frequency and Cumulative Frequency Distributions
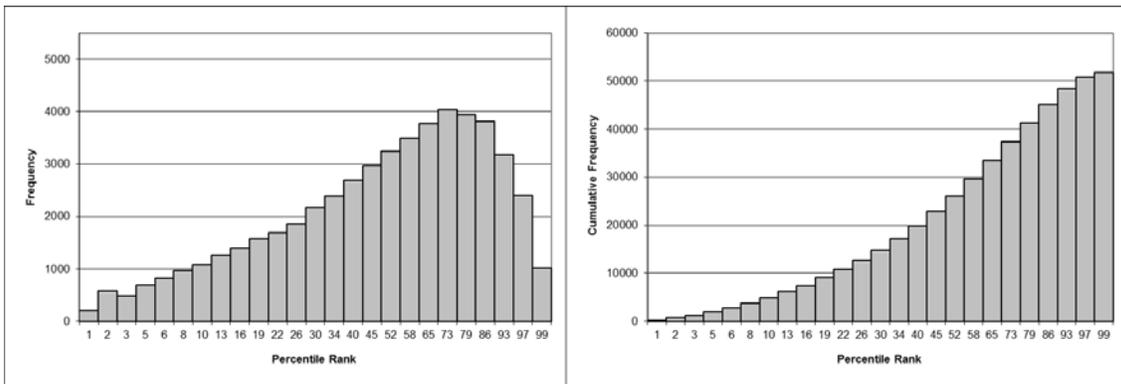
Figure 15. Language Mechanics Grade 4 NPR Frequency and Cumulative Frequency Distributions
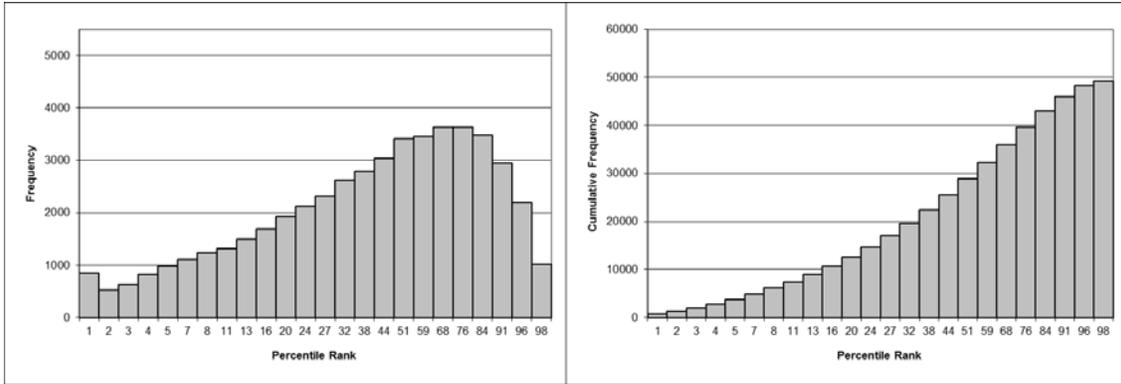
Figure 16. Language Mechanics Grade 6 NPR Frequency and Cumulative Frequency Distributions

Appendix M. Performance Level Rates[10]

Grade 3 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,146	23.2%	21.0%	39.6%	16.2%
Gender	Female	25,479	20.4%	20.7%	40.7%	18.2%
	Male	26,615	25.9%	21.3%	38.5%	14.3%
Ethnicity	Hispanic	3,850	31.8%	25.4%	33.7%	9.1%
	Asian	830	17.6%	16.4%	40.4%	25.7%
	Native Hawaiian/Pacific Islander	83	28.9%	15.7%	44.6%	10.8%
	Black/African American	5,384	44.1%	23.1%	27.3%	5.5%
	American Indian	59	32.2%	15.3%	44.1%	8.5%
	White	39,137	19.6%	20.1%	41.9%	18.5%
	Other	2,282	25.8%	21.4%	39.0%	13.8%
	Missing	521	15.9%	44.9%	32.8%	6.3%
Migrant	Non-Migrant	51,953	23.2%	21.0%	39.6%	16.3%
	Migrant	193	36.3%	33.2%	26.4%	4.1%
LEP	Non-LEP	49,585	22.2%	20.6%	40.3%	16.9%
	LEP	2,561	43.3%	28.2%	25.7%	2.8%
Economic Disadvantage	Free Lunch	30,440	30.3%	23.2%	35.5%	11.0%
	Reduced-Price Lunch	2,127	19.0%	21.4%	43.2%	16.4%
	Regular Lunch	19,579	12.6%	17.5%	45.5%	24.3%
IEP	Non-IEP	44,554	20.3%	21.0%	41.5%	17.1%
	IEP	7,592	40.4%	20.9%	27.9%	10.8%

Grade 4 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,396	21.7%	28.5%	33.3%	16.6%
Gender	Female	25,671	20.1%	28.4%	33.9%	17.6%
	Male	26,675	23.1%	28.5%	32.8%	15.6%
Ethnicity	Hispanic	3,703	30.2%	32.8%	27.5%	9.5%
	Asian	838	15.3%	21.7%	34.4%	28.6%
	Native Hawaiian/Pacific Islander	72	31.9%	27.8%	27.8%	12.5%
	Black/African American	5,392	43.7%	29.3%	21.6%	5.4%
	American Indian	64	34.4%	21.9%	28.1%	15.6%
	White	39,430	17.8%	27.7%	35.5%	18.9%
	Other	2,319	24.6%	31.1%	31.2%	13.1%
	Missing	578	15.1%	40.7%	36.5%	7.8%
Migrant	Non-Migrant	52,196	21.6%	28.4%	33.3%	16.6%
	Migrant	200	37.5%	32.0%	25.5%	5.0%

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[10] Alternate K-PREP students are included.

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
LEP	Non-LEP	50,763	20.6%	28.3%	34.0%	17.0%
	LEP	1,633	53.0%	33.0%	11.9%	2.1%
Economic Disadvantage	Free Lunch	29,917	28.9%	31.7%	29.3%	10.1%
	Reduced-Price Lunch	2,290	16.4%	30.0%	36.2%	17.5%
	Regular Lunch	20,189	11.5%	23.4%	38.9%	26.1%
IEP	Non-IEP	45,292	18.9%	28.5%	34.9%	17.7%
	IEP	7,104	39.5%	28.2%	22.9%	9.4%

Grade 5 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,104	21.9%	20.8%	38.7%	18.6%
Gender	Female	24,719	18.6%	20.1%	40.4%	20.9%
	Male	26,330	25.1%	21.3%	37.1%	16.4%
Ethnicity	Hispanic	3,528	30.6%	25.3%	33.9%	10.3%
	Asian	865	17.1%	14.5%	35.8%	32.6%
	Native Hawaiian/Pacific Islander	58	31.0%	31.0%	22.4%	15.5%
	Black/African American	5,097	43.4%	22.8%	27.5%	6.4%
	American Indian	68	25.0%	20.6%	33.8%	20.6%
	White	38,804	18.5%	19.8%	40.7%	21.0%
	Other	2,038	23.5%	23.0%	39.3%	14.2%
	Missing	646	12.5%	39.9%	38.2%	9.3%
Migrant	Non-Migrant	50,927	21.9%	20.7%	38.7%	18.7%
	Migrant	177	42.4%	28.2%	26.6%	2.8%
LEP	Non-LEP	49,907	20.9%	20.7%	39.4%	19.0%
	LEP	1,197	64.1%	24.1%	10.5%	1.3%
Economic Disadvantage	Free Lunch	27,735	29.4%	23.8%	35.7%	11.1%
	Reduced-Price Lunch	2,173	18.5%	20.7%	41.0%	19.8%
	Regular Lunch	21,196	12.5%	16.8%	42.4%	28.3%
IEP	Non-IEP	44,775	18.6%	20.7%	40.6%	20.1%
	IEP	6,329	45.3%	21.4%	25.0%	8.3%

Grade 6 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,873	16.8%	24.2%	44.8%	14.1%
Gender	Female	24,334	13.3%	22.9%	47.6%	16.2%
	Male	25,513	20.1%	25.5%	42.2%	12.2%
Ethnicity	Hispanic	3,110	24.7%	29.0%	39.5%	6.8%
	Asian	857	11.3%	17.7%	44.6%	26.4%
	Native Hawaiian/Pacific Islander	60	18.3%	35.0%	38.3%	8.3%
	Black/African American	5,102	34.8%	29.2%	30.8%	5.2%
	American Indian	60	18.3%	23.3%	41.7%	16.7%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	White	38,304	13.6%	23.0%	47.4%	15.9%
	Other	1,819	19.3%	27.2%	43.1%	10.4%
	Missing	561	23.5%	36.7%	31.0%	8.7%
Migrant	Non-Migrant	49,722	16.7%	24.2%	44.9%	14.2%
	Migrant	151	30.5%	37.1%	29.8%	2.6%
LEP	Non-LEP	48,908	15.9%	24.1%	45.5%	14.4%
	LEP	965	60.3%	29.5%	9.6%	0.5%
Economic Disadvantage	Free Lunch	26,491	23.0%	28.5%	40.7%	7.8%
	Reduced-Price Lunch	2,105	14.4%	24.1%	48.0%	13.5%
	Regular Lunch	21,277	9.3%	18.9%	49.7%	22.1%
IEP	Non-IEP	44,279	13.7%	23.7%	47.3%	15.3%
	IEP	5,594	41.0%	28.4%	25.4%	5.2%

Grade 7 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,924	18.9%	26.5%	37.3%	17.2%
Gender	Female	24,367	14.4%	25.7%	40.1%	19.9%
	Male	25,518	23.3%	27.2%	34.7%	14.7%
Ethnicity	Hispanic	2,870	25.6%	30.9%	34.3%	9.2%
	Asian	877	13.1%	18.4%	36.1%	32.4%
	Native Hawaiian/Pacific Islander	53	20.8%	28.3%	41.5%	9.4%
	Black/African American	5,038	39.3%	30.6%	24.5%	5.6%
	American Indian	70	22.9%	32.9%	28.6%	15.7%
	White	38,829	15.8%	25.4%	39.5%	19.3%
	Other	1,597	22.7%	26.5%	36.6%	14.2%
	Missing	590	20.0%	52.0%	21.7%	6.3%
Migrant	Non-Migrant	49,763	18.9%	26.5%	37.4%	17.3%
	Migrant	161	38.5%	28.0%	26.1%	7.5%
LEP	Non-LEP	48,979	18.1%	26.4%	37.9%	17.6%
	LEP	945	61.4%	29.4%	8.5%	0.7%
Economic Disadvantage	Free Lunch	25,711	26.1%	30.5%	33.4%	10.0%
	Reduced-Price Lunch	2,238	16.1%	25.5%	41.2%	17.1%
	Regular Lunch	21,975	10.8%	21.8%	41.6%	25.8%
IEP	Non-IEP	44,603	15.6%	26.2%	39.6%	18.6%
	IEP	5,321	46.8%	28.9%	18.6%	5.6%

Grade 8 Reading

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,769	22.2%	20.6%	36.7%	20.5%
Gender	Female	24,257	17.0%	19.5%	38.3%	25.2%
	Male	25,486	27.2%	21.7%	35.1%	16%
Ethnicity	Hispanic	2,818	28.9%	24.1%	33.6%	13.4%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Asian	860	15.0%	12.8%	35.3%	36.9%
	Native Hawaiian/Pacific Islander	46	26.1%	17.4%	39.1%	17.4%
	Black/African American	5,266	45.3%	22.7%	24.3%	7.7%
	American Indian	61	24.6%	23.0%	34.4%	18.0%
	White	38,610	18.8%	19.7%	38.8%	22.8%
	Other	1,453	23.3%	22.6%	36.8%	17.2%
	Missing	655	17.3%	50.5%	26.3%	6.0%
Migrant	Non-Migrant	49,628	22.1%	20.6%	36.7%	20.5%
	Migrant	141	51.1%	22.0%	22.0%	5.0%
LEP	Non-LEP	48,795	21.2%	20.7%	37.2%	20.9%
	LEP	974	73.8%	17.7%	8.2%	0.3%
Economic Disadvantage	Free Lunch	24,987	30.2%	23.8%	34.1%	12.0%
	Reduced-Price Lunch	2,148	19.2%	21.1%	39.5%	20.2%
	Regular Lunch	22,634	13.7%	17.1%	39.3%	29.9%
IEP	Non-IEP	44,757	18.2%	20.7%	38.9%	22.2%
	IEP	5,012	58.1%	20.2%	16.9%	4.8%

Grade 3 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,146	17.2%	31.8%	40.2%	10.8%
Gender	Female	25,479	16.1%	33.0%	40.9%	9.9%
	Male	26,615	18.2%	30.8%	39.5%	11.5%
Ethnicity	Hispanic	3,850	22.1%	37.1%	35.4%	5.4%
	Asian	830	8.7%	17.7%	44.2%	29.4%
	Native Hawaiian/Pacific Islander	83	21.7%	30.1%	38.6%	9.6%
	Black/African American	5,384	33.7%	35.9%	27.1%	3.3%
	American Indian	59	13.6%	49.2%	28.8%	8.5%
	White	39,137	14.3%	30.9%	42.6%	12.2%
	Other	2,282	19.9%	32.6%	39.4%	8.1%
	Missing	521	27.3%	42.2%	26.7%	3.8%
Migrant	Non-Migrant	51,953	17.2%	31.8%	40.2%	10.8%
	Migrant	193	27.5%	42.5%	26.9%	3.1%
LEP	Non-LEP	49,585	16.6%	31.4%	40.8%	11.2%
	LEP	2,561	28.7%	40.3%	28.1%	2.8%
Economic Disadvantage	Free Lunch	30,440	22.5%	35.9%	35.4%	6.2%
	Reduced-Price Lunch	2,127	13.7%	31.9%	44.4%	10.1%
	Regular Lunch	19,579	9.4%	25.5%	47.1%	18.0%
IEP	Non-IEP	44,554	14.2%	31.5%	42.9%	11.5%
	IEP	7,592	35.1%	33.8%	24.5%	6.6%

Grade 4 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,396	17.9%	34.2%	31.9%	15.9%
Gender	Female	25,671	18.0%	34.9%	32.5%	14.6%
	Male	26,675	17.9%	33.5%	31.4%	17.2%
Ethnicity	Hispanic	3,703	24.5%	38.3%	27.6%	9.7%
	Asian	838	8.1%	20.8%	34.7%	36.4%
	Native Hawaiian/Pacific Islander	72	33.3%	31.9%	27.8%	6.9%
	Black/African American	5,392	35.9%	37.9%	20.8%	5.3%
	American Indian	64	15.6%	43.8%	26.6%	14.1%
	White	39,430	14.9%	33.0%	34.2%	17.9%
	Other	2,319	20.5%	38.0%	28.9%	12.5%
	Missing	578	18.9%	54.7%	21.6%	4.8%
Migrant	Non-Migrant	52,196	17.9%	34.2%	32.0%	16.0%
	Migrant	200	33.5%	38.0%	22.0%	6.5%
LEP	Non-LEP	50,763	17.1%	34.1%	32.5%	16.4%
	LEP	1,633	43.8%	38.0%	15.2%	2.9%
Economic Disadvantage	Free Lunch	29,917	23.7%	38.5%	28.4%	9.3%
	Reduced-Price Lunch	2,290	14.5%	31.8%	37.3%	16.3%
	Regular Lunch	20,189	9.7%	28.1%	36.5%	25.7%
IEP	Non-IEP	45,292	14.8%	34.2%	33.7%	17.2%
	IEP	7,104	37.7%	34.1%	20.5%	7.7%

Grade 5 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,104	13.8%	37.7%	35.3%	13.2%
Gender	Female	24,719	12.5%	38.7%	36.6%	12.3%
	Male	26,330	14.9%	36.8%	34.1%	14.2%
Ethnicity	Hispanic	3,528	18.1%	42.2%	33%	6.7%
	Asian	865	6.2%	21.4%	34.6%	37.8%
	Native Hawaiian/Pacific Islander	58	15.5%	44.8%	32.8%	6.9%
	Black/African American	5,097	27.0%	45.9%	23.3%	3.7%
	American Indian	68	10.3%	41.2%	33.8%	14.7%
	White	38,804	11.4%	36.2%	37.5%	14.9%
	Other	2,038	15.7%	42.1%	32.0%	10.2%
	Missing	646	28.2%	42.4%	25.5%	3.9%
Migrant	Non-Migrant	50,927	13.7%	37.7%	35.4%	13.3%
	Migrant	177	28.8%	44.1%	26.0%	1.1%
LEP	Non-LEP	49,907	13.2%	37.5%	35.8%	13.5%
	LEP	1,197	37.6%	46.0%	14.9%	1.5%
Economic Disadvantage	Free Lunch	27,735	18.2%	44.0%	30.8%	7.1%
	Reduced-Price Lunch	2,173	10.8%	35.0%	40.7%	13.5%
	Regular Lunch	21,196	8.3%	29.8%	40.7%	21.2%

IEP	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Non-IEP	44,775	11.4%	37.0%	37.5%	14.2%
	IEP	6,329	30.7%	42.4%	20.2%	6.7%

Grade 6 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,873	15.5%	35.4%	39.2%	9.9%
Gender	Female	24,334	13.1%	34.8%	42.0%	10.1%
	Male	25,513	17.7%	36.0%	36.6%	9.8%
Ethnicity	Hispanic	3,110	20.6%	41.7%	32.3%	5.4%
	Asian	857	6.1%	19.8%	44.3%	29.8%
	Native Hawaiian/Pacific Islander	60	16.7%	40.0%	35.0%	8.3%
	Black/African American	5,102	33.1%	41.6%	22.9%	2.5%
	American Indian	60	16.7%	33.3%	38.3%	11.7%
	White	38,304	12.7%	34.0%	42.3%	11.0%
	Other	1,819	19.5%	39.5%	34.4%	6.6%
	Missing	561	18.4%	47.1%	27.3%	7.3%
Migrant	Non-Migrant	49,722	15.4%	35.4%	39.3%	9.9%
	Migrant	151	26.5%	45.0%	25.8%	2.6%
LEP	Non-LEP	48,908	14.8%	35.3%	39.8%	10.1%
	LEP	965	49.2%	39.2%	11.1%	0.5%
Economic Disadvantage	Free Lunch	26,491	21.4%	41.3%	32.7%	4.7%
	Reduced-Price Lunch	2,105	12.7%	35.5%	42.9%	8.8%
	Regular Lunch	21,277	8.4%	28.0%	47.1%	16.5%
IEP	Non-IEP	44,279	12.6%	34.8%	41.8%	10.8%
	IEP	5,594	38.1%	40.3%	18.7%	2.9%

Grade 7 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,924	17.6%	39.1%	31.0%	12.3%
Gender	Female	24,367	15.6%	40.4%	31.8%	12.2%
	Male	25,518	19.5%	37.9%	30.3%	12.4%
Ethnicity	Hispanic	2,870	23.8%	45.4%	24.5%	6.4%
	Asian	877	9.0%	22.1%	34.7%	34.2%
	Native Hawaiian/Pacific Islander	53	15.1%	45.3%	30.2%	9.4%
	Black/African American	5,038	36.2%	43.8%	16.6%	3.4%
	American Indian	70	28.6%	42.9%	20.0%	8.6%
	White	38,829	14.8%	38.1%	33.5%	13.6%
	Other	1,597	20.5%	40.7%	28.9%	9.9%
	Missing	590	20.5%	51.7%	23.9%	3.9%
Migrant	Non-Migrant	49,763	17.6%	39.1%	31.0%	12.3%
	Migrant	161	29.2%	51.6%	15.5%	3.7%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
LEP	Non-LEP	48,979	17.0%	39.0%	31.4%	12.5%
	LEP	945	48.9%	42.0%	7.5%	1.6%
Economic Disadvantage	Free Lunch	25,711	24.2%	44.9%	24.8%	6.1%
	Reduced-Price Lunch	2,238	15.4%	39.0%	35.0%	10.6%
	Regular Lunch	21,975	10.1%	32.3%	37.8%	19.8%
IEP	Non-IEP	44,603	15.2%	38.5%	33.1%	13.2%
	IEP	5,321	38.2%	44.0%	13.4%	4.4%

Grade 8 Mathematics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,769	17.9%	33.3%	36.0%	12.8%
Gender	Female	24,257	14.4%	33.1%	39.1%	13.3%
	Male	25,486	21.1%	33.5%	33.1%	12.3%
Ethnicity	Hispanic	2,818	21.9%	37.9%	33.0%	7.2%
	Asian	860	8.0%	16.0%	38.1%	37.8%
	Native Hawaiian/Pacific Islander	46	17.4%	37.0%	28.3%	17.4%
	Black/African American	5,266	37.0%	37.1%	21.7%	4.2%
	American Indian	61	18.0%	34.4%	41.0%	6.6%
	White	38,610	14.9%	32.6%	38.4%	14.1%
	Other	1,453	22.4%	33.6%	34.1%	9.8%
	Missing	655	23.1%	47.6%	25.5%	3.8%
Migrant	Non-Migrant	49,628	17.8%	33.3%	36.0%	12.8%
	Migrant	141	32.6%	34.0%	31.9%	1.4%
LEP	Non-LEP	48,795	17.3%	33.2%	36.5%	13.0%
	LEP	974	47.5%	37.5%	13.3%	1.6%
Economic Disadvantage	Free Lunch	24,987	24.3%	38.4%	30.6%	6.7%
	Reduced-Price Lunch	2,148	13.6%	33.9%	39.5%	13.0%
	Regular Lunch	22,634	11.1%	27.6%	41.7%	19.5%
IEP	Non-IEP	44,757	14.5%	33.0%	38.5%	13.9%
	IEP	5,012	47.6%	35.9%	13.9%	2.5%

Grade 5 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,104	10.2%	29.8%	44.9%	15.1%
Gender	Female	24,719	9.7%	31.6%	44.8%	13.9%
	Male	26,330	10.7%	28.1%	45.0%	16.2%
Ethnicity	Hispanic	3,528	15.2%	37.0%	39.9%	7.9%
	Asian	865	9.8%	17.9%	41.2%	31.1%
	Native Hawaiian/Pacific Islander	58	13.8%	43.1%	34.5%	8.6%
	Black/African American	5,097	25.1%	40.1%	30.1%	4.7%
	American Indian	68	5.9%	25.0%	52.9%	16.2%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	White	38,804	7.7%	27.4%	47.6%	17.2%
	Other	2,038	10.4%	35.2%	44.4%	10.0%
	Missing	646	15.6%	48.5%	29.6%	6.3%
Migrant	Non-Migrant	50,927	10.2%	29.7%	44.9%	15.1%
	Migrant	177	21.5%	46.9%	28.8%	2.8%
LEP	Non-LEP	49,907	9.4%	29.5%	45.6%	15.4%
	LEP	1,197	43.3%	41.4%	14.5%	0.8%
Economic Disadvantage	Free Lunch	27,735	14.3%	36.0%	41.2%	8.5%
	Reduced-Price Lunch	2,173	6.8%	27.6%	50.6%	15.0%
	Regular Lunch	21,196	5.3%	21.9%	49.1%	23.7%
IEP	Non-IEP	44,775	7.5%	28.8%	47.4%	16.3%
	IEP	6,329	29.5%	36.6%	27.2%	6.6%

Grade 8 Social Studies

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,769	11.1%	28.3%	40.0%	20.6%
Gender	Female	24,257	8.8%	28.9%	41.9%	20.4%
	Male	25,486	13.4%	27.8%	38.1%	20.8%
Ethnicity	Hispanic	2,818	14.8%	35.0%	36.7%	13.6%
	Asian	860	8.1%	15.8%	34.9%	41.2%
	Native Hawaiian/Pacific Islander	46	10.9%	26.1%	39.1%	23.9%
	Black/African American	5,266	26.6%	39.0%	27.7%	6.7%
	American Indian	61	6.6%	39.3%	34.4%	19.7%
	White	38,610	8.4%	26.3%	42.4%	22.9%
	Other	1,453	11.9%	32.1%	39.6%	16.4%
	Missing	655	32.1%	38.5%	19.7%	9.8%
Migrant	Non-Migrant	49,628	11.1%	28.3%	40.0%	20.6%
	Migrant	141	34.0%	34.0%	28.4%	3.5%
LEP	Non-LEP	48,795	10.5%	28.0%	40.6%	21.0%
	LEP	974	44.5%	44.5%	10.5%	0.6%
Economic Disadvantage	Free Lunch	24,987	15.5%	35.2%	37.1%	12.1%
	Reduced-Price Lunch	2,148	7.8%	27.2%	44.4%	20.6%
	Regular Lunch	22,634	6.6%	20.8%	42.7%	30.0%
IEP	Non-IEP	44,757	8.2%	27.0%	42.4%	22.4%
	IEP	5,012	37.3%	39.8%	18.3%	4.6%

Grade 4 Language Mechanics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	52,396	20.7%	23.6%	28.1%	27.6%
Gender	Female	25,671	16.4%	22.1%	28.9%	32.7%
	Male	26,675	24.8%	25.0%	27.4%	22.7%
Ethnicity	Hispanic	3,703	28.5%	27.0%	25.9%	18.5%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Asian	838	12.5%	16.9%	26.5%	44.0%
	Native Hawaiian/Pacific Islander	72	26.4%	30.6%	23.6%	19.4%
	Black/African American	5,392	40.9%	26.0%	20.5%	12.5%
	American Indian	64	34.4%	21.9%	14.1%	29.7%
	White	39,430	17.4%	22.6%	29.4%	30.7%
	Other	2,319	22.3%	25.4%	28.4%	23.9%
	Missing	578	13.3%	46.9%	32.0%	7.8%
Migrant	Non-Migrant	52,196	20.7%	23.6%	28.1%	27.6%
	Migrant	200	35.5%	26.0%	25.0%	13.5%
LEP	Non-LEP	50,763	19.7%	23.5%	28.6%	28.3%
	LEP	1,633	53.3%	26.5%	13.7%	6.6%
Economic Disadvantage	Free Lunch	29,917	27.8%	26.9%	26.6%	18.7%
	Reduced-Price Lunch	2,290	16.1%	22.7%	31.4%	29.8%
	Regular Lunch	20,189	10.7%	18.7%	30.0%	40.6%
IEP	Non-IEP	45,292	16.5%	23.2%	29.9%	30.4%
	IEP	7,104	47.3%	26.0%	17.0%	9.7%

Grade 6 Language Mechanics

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,873	29.7%	22.1%	21.3%	26.9%
Gender	Female	24,334	22.8%	21.9%	23.2%	32.2%
	Male	25,513	36.3%	22.4%	19.6%	21.8%
Ethnicity	Hispanic	3,110	39.8%	24.7%	18.6%	16.9%
	Asian	857	19.7%	17.0%	21.8%	41.4%
	Native Hawaiian/Pacific Islander	60	33.3%	26.7%	20.0%	20.0%
	Black/African American	5,102	50.1%	21.7%	15.0%	13.2%
	American Indian	60	26.7%	23.3%	26.7%	23.3%
	White	38,304	26.3%	21.6%	22.4%	29.7%
	Other	1,819	34.6%	22.8%	19.4%	23.2%
	Missing	561	19.4%	48.8%	26.9%	4.8%
Migrant	Non-Migrant	49,722	29.6%	22.1%	21.4%	26.9%
	Migrant	151	57.6%	17.9%	17.9%	6.6%
LEP	Non-LEP	48,908	28.7%	22.3%	21.7%	27.3%
	LEP	965	77.6%	14.7%	4.4%	3.3%
Economic Disadvantage	Free Lunch	26,491	39.4%	24.0%	19.0%	17.5%
	Reduced-Price Lunch	2,105	26.9%	22.9%	23.3%	26.8%
	Regular Lunch	21,277	17.8%	19.7%	24.1%	38.5%
IEP	Non-IEP	44,279	24.9%	22.7%	23.0%	29.4%
	IEP	5,594	67.5%	17.2%	8.3%	6.9%

Grade 5 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	51,104	19.2%	34.9%	40.8%	5.1%
Gender	Female	24,719	12.0%	31.2%	49.2%	7.6%
	Male	26,330	26.0%	38.3%	32.9%	2.8%
Ethnicity	Hispanic	3,528	25.6%	37.0%	34.6%	2.7%
	Asian	865	11.1%	28.0%	48.6%	12.4%
	Native Hawaiian/Pacific Islander	58	22.4%	32.8%	43.1%	1.7%
	Black/African American	5,097	34.0%	38.7%	25.6%	1.7%
	American Indian	68	27.9%	29.4%	39.7%	2.9%
	White	38,804	16.8%	34.2%	43.4%	5.7%
	Other	2,038	22.0%	36.7%	38.2%	3.2%
	Missing	646	16.3%	40.2%	37.2%	6.3%
Migrant	Non-Migrant	50,927	19.2%	34.9%	40.8%	5.1%
	Migrant	177	35.6%	31.6%	31.1%	1.7%
LEP	Non-LEP	49,907	18.4%	34.9%	41.4%	5.2%
	LEP	1,197	52.5%	31.9%	14.8%	0.8%
Economic Disadvantage	Free Lunch	27,735	24.8%	37.8%	34.4%	3.0%
	Reduced-Price Lunch	2,173	16.9%	35.2%	43.0%	4.8%
	Regular Lunch	21,196	12.1%	31.0%	48.9%	7.9%
IEP	Non-IEP	44,775	14.8%	35.7%	44.0%	5.5%
	IEP	6,329	50.1%	29.2%	18.3%	2.4%

Grade 8 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	49,769	16.2%	46.5%	24.9%	12.3%
Gender	Female	24,257	8.1%	42.2%	31.7%	18.0%
	Male	25,486	23.9%	50.7%	18.5%	6.9%
Ethnicity	Hispanic	2,818	20.3%	52.4%	20.2%	7.1%
	Asian	860	9.7%	33.7%	29.4%	27.2%
	Native Hawaiian/Pacific Islander	46	15.2%	43.5%	28.3%	13.0%
	Black/African American	5,266	31.0%	50.7%	14.1%	4.3%
	American Indian	61	14.8%	50.8%	21.3%	13.1%
	White	38,610	13.9%	45.8%	26.7%	13.6%
	Other	1,453	17.7%	48.7%	23.9%	9.8%
	Missing	655	20.5%	43.2%	26.1%	10.2%
Migrant	Non-Migrant	49,628	16.1%	46.6%	25.0%	12.3%
	Migrant	141	44.0%	41.1%	10.6%	4.3%
LEP	Non-LEP	48,795	15.5%	46.6%	25.3%	12.6%
	LEP	974	50.5%	42.4%	6.4%	0.7%
Economic Disadvantage	Free Lunch	24,987	21.6%	50.8%	20.4%	7.1%
	Reduced-Price Lunch	2,148	12.4%	48.0%	27.7%	11.9%

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
	Regular Lunch	22,634	10.6%	41.7%	29.6%	18.1%
IEP	Non-IEP	44,757	11.8%	47.7%	27.1%	13.5%
	IEP	5,012	56.2%	36.6%	5.5%	1.7%

Grade 11 On-Demand Writing

	Test Group	N	Novice	Apprentice	Proficient	Distinguished
All	Students Tested	46,389	17.7%	23.4%	51.2%	7.7%
Gender	Female	22,863	10.2%	19.7%	60.1%	10.1%
	Male	23,497	25.1%	27.0%	42.5%	5.4%
Ethnicity	Hispanic	2,109	23.6%	25.0%	46.4%	5.0%
	Asian	782	12.0%	16.6%	52.6%	18.8%
	Native Hawaiian/Pacific Islander	44	20.5%	22.7%	40.9%	15.9%
	Black/African American	4,783	29.0%	27.9%	40.3%	2.8%
	American Indian	60	23.3%	8.3%	66.7%	1.7%
	White	36,935	16.0%	22.5%	53.2%	8.3%
	Other	1,102	19.7%	24.3%	49.5%	6.5%
	Missing	574	16.2%	45.8%	29.6%	8.4%
Migrant	Non-Migrant	46,314	17.7%	23.4%	51.2%	7.7%
	Migrant	75	41.3%	22.7%	33.3%	2.7%
LEP	Non-LEP	45,690	17.1%	23.4%	51.7%	7.8%
	LEP	699	58.9%	24.6%	16.2%	0.3%
Economic Disadvantage	Free Lunch	20,165	24.2%	27.4%	44.5%	3.9%
	Reduced-Price Lunch	2,027	15.6%	23.6%	54.1%	6.7%
	Regular Lunch	24,197	12.5%	20.0%	56.5%	10.9%
IEP	Non-IEP	42,692	14.0%	23.2%	54.5%	8.3%
	IEP	3,697	60.4%	25.7%	12.9%	0.9%

Appendix N. Reliability[11]

Overall Test

Grade 3 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,294	0.85	0.85	0.32	6.60
Gender	Female	24,847	0.84	0.84	0.31	6.65
	Male	25,397	0.85	0.85	0.33	6.55
Ethnicity	Hispanic	3,725	0.83	0.82	0.31	6.51
	Asian	819	0.86	0.85	0.36	6.84
	Native Hawaiian/Pacific Islander	81	0.89	0.88	0.32	6.34
	Black/African American	5,053	0.85	0.84	0.33	6.42
	American Indian	57	0.87	0.87	0.25	6.23
	White	38,358	0.84	0.84	0.32	6.63
	Other	2,195	0.85	0.85	0.25	6.51
	Missing	6	--	--	--	--
Migrant	Non-Migrant	50,114	0.85	0.85	0.32	6.60
	Migrant	180	0.80	0.80	0.20	6.49
LEP	Non-LEP	47,827	0.85	0.85	0.33	6.60
	LEP	2,467	0.80	0.79	0.26	6.38
Economic Disadvantage	Free Lunch	29,436	0.85	0.84	0.33	6.55
	Reduced-Price Lunch	2,085	0.83	0.83	0.28	6.60
	Regular Lunch	18,773	0.83	0.82	0.28	6.71
IEP	Non-IEP	42,943	0.84	0.83	0.30	6.63
	IEP	7,351	0.87	0.87	0.42	6.59

Grade 4 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,528	0.86	0.84	0.57	6.37
Gender	Female	25,052	0.86	0.84	0.56	6.39
	Male	25,428	0.87	0.85	0.58	6.33
Ethnicity	Hispanic	3,598	0.85	0.83	0.54	6.29
	Asian	819	0.87	0.85	0.56	6.51
	Native Hawaiian/Pacific Islander	72	0.85	0.83	0.50	6.40
	Black/African American	5,131	0.86	0.84	0.55	6.37
	American Indian	62	0.90	0.88	0.73	6.49
	White	38,597	0.85	0.83	0.56	6.37
	Other	2,245	0.85	0.83	0.55	6.32
	Missing	4	--	--	--	--
Migrant	Non-Migrant	50,334	0.86	0.84	0.57	6.37
	Migrant	194	0.83	0.80	0.57	6.22

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[11] Alternate K-PREP students are not included.

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
LEP	Non-LEP	48,976	0.86	0.84	0.57	6.37
	LEP	1,552	0.80	0.77	0.52	6.36
Economic Disadvantage	Free Lunch	29,001	0.85	0.83	0.56	6.33
	Reduced-Price Lunch	2,234	0.84	0.82	0.55	6.36
	Regular Lunch	19,293	0.85	0.82	0.54	6.40
IEP	Non-IEP	43,687	0.86	0.84	0.55	6.35
	IEP	6,841	0.87	0.85	0.67	6.46

Grade 5 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,726	0.87	0.85	0.56	5.84
Gender	Female	24,257	0.86	0.85	0.54	5.85
	Male	25,423	0.87	0.85	0.55	5.80
Ethnicity	Hispanic	3,457	0.85	0.83	0.52	5.79
	Asian	854	0.89	0.87	0.62	5.94
	Native Hawaiian/Pacific Islander	58	0.88	0.85	0.65	6.26
	Black/African American	4,915	0.85	0.83	0.54	5.83
	American Indian	67	0.89	0.88	0.49	5.85
	White	38,374	0.86	0.85	0.55	5.83
	Other	1,999	0.85	0.84	0.48	5.79
	Missing	2	--	--	--	--
Migrant	Non-Migrant	49,552	0.87	0.85	0.56	5.84
	Migrant	174	0.83	0.81	0.43	5.85
LEP	Non-LEP	48,585	0.86	0.85	0.55	5.83
	LEP	1,141	0.76	0.72	0.42	5.85
Economic Disadvantage	Free Lunch	27,169	0.85	0.84	0.53	5.82
	Reduced-Price Lunch	2,150	0.85	0.84	0.55	5.79
	Regular Lunch	20,407	0.86	0.84	0.55	5.82
IEP	Non-IEP	43,565	0.86	0.84	0.54	5.82
	IEP	6,161	0.87	0.85	0.56	5.85

Grade 6 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,508	0.84	0.82	0.55	5.45
Gender	Female	23,925	0.84	0.81	0.53	5.48
	Male	24,557	0.85	0.83	0.55	5.41
Ethnicity	Hispanic	3,039	0.83	0.80	0.53	5.42
	Asian	841	0.85	0.83	0.55	5.52
	Native Hawaiian/Pacific Islander	60	0.81	0.79	0.45	5.51
	Black/African American	4,899	0.84	0.81	0.54	5.43
	American Indian	59	0.84	0.81	0.66	5.45
	White	37,827	0.84	0.81	0.54	5.45
	Other	1,778	0.83	0.80	0.53	5.38

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Missing	5	--	--	--	--
Migrant	Non-Migrant	48,360	0.84	0.82	0.55	5.45
	Migrant	148	0.81	0.79	0.46	5.51
LEP	Non-LEP	47,611	0.84	0.82	0.55	5.45
	LEP	897	0.71	0.66	0.42	5.64
Economic Disadvantage	Free Lunch	25,926	0.83	0.81	0.52	5.42
	Reduced-Price Lunch	2,064	0.83	0.81	0.51	5.40
	Regular Lunch	20,518	0.83	0.81	0.54	5.47
IEP	Non-IEP	43,089	0.84	0.81	0.54	5.43
	IEP	5,419	0.84	0.82	0.58	5.48

Grade 7 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,615	0.85	0.82	0.58	5.61
Gender	Female	23,941	0.84	0.81	0.55	5.61
	Male	24,638	0.85	0.83	0.60	5.59
Ethnicity	Hispanic	2,806	0.82	0.79	0.56	5.56
	Asian	869	0.88	0.86	0.60	5.81
	Native Hawaiian/Pacific Islander	52	0.84	0.81	0.65	5.47
	Black/African American	4,842	0.82	0.79	0.58	5.64
	American Indian	69	0.86	0.84	0.67	5.87
	White	38,401	0.84	0.82	0.57	5.59
	Other	1,572	0.84	0.82	0.57	5.60
	Missing	4	--	--	--	--
Migrant	Non-Migrant	48,462	0.85	0.82	0.58	5.61
	Migrant	153	0.83	0.79	0.64	5.65
LEP	Non-LEP	47,733	0.85	0.82	0.58	5.60
	LEP	882	0.70	0.63	0.44	5.78
Economic Disadvantage	Free Lunch	25,198	0.83	0.80	0.57	5.59
	Reduced-Price Lunch	2,217	0.83	0.80	0.56	5.53
	Regular Lunch	21,200	0.84	0.82	0.56	5.60
IEP	Non-IEP	43,466	0.84	0.82	0.56	5.59
	IEP	5,149	0.83	0.80	0.62	5.67

Grade 8 Reading

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,466	0.87	0.86	0.58	5.73
Gender	Female	23,865	0.87	0.85	0.55	5.76
	Male	24,575	0.87	0.85	0.59	5.68
Ethnicity	Hispanic	2,759	0.86	0.84	0.57	5.70
	Asian	846	0.90	0.88	0.59	5.89
	Native Hawaiian/Pacific Islander	45	0.88	0.86	0.49	5.60
	Black/African American	5,071	0.86	0.83	0.59	5.70

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	American Indian	61	0.87	0.86	0.35	5.55
	White	38,260	0.87	0.85	0.57	5.73
	Other	1,423	0.87	0.85	0.57	5.71
	Missing	1	--	--	--	--
Migrant	Non-Migrant	48,340	0.87	0.85	0.58	5.73
	Migrant	126	0.86	0.84	0.60	5.67
LEP	Non-LEP	47,562	0.87	0.85	0.58	5.73
	LEP	904	0.75	0.70	0.49	5.76
Economic Disadvantage	Free Lunch	24,535	0.86	0.84	0.56	5.67
	Reduced-Price Lunch	2,129	0.86	0.84	0.53	5.67
	Regular Lunch	21,802	0.87	0.85	0.56	5.76
IEP	Non-IEP	43,602	0.86	0.84	0.55	5.73
	IEP	4,864	0.85	0.82	0.62	5.74

Grade 3 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,067	0.90	0.88	0.56	6.17
Gender	Female	24,713	0.89	0.88	0.54	6.15
	Male	25,303	0.90	0.89	0.57	6.18
Ethnicity	Hispanic	3,722	0.88	0.87	0.51	5.92
	Asian	812	0.91	0.90	0.60	6.88
	Native Hawaiian/Pacific Islander	82	0.91	0.90	0.66	6.01
	Black/African American	5,105	0.89	0.87	0.51	5.90
	American Indian	57	0.85	0.82	0.48	6.32
	White	38,087	0.89	0.88	0.55	6.20
	Other	2,196	0.89	0.88	0.56	6.00
	Missing	6	--	--	--	--
Migrant	Non-Migrant	49,883	0.90	0.88	0.56	6.17
	Migrant	184	0.86	0.84	0.39	5.91
LEP	Non-LEP	47,580	0.90	0.89	0.56	6.18
	LEP	2,487	0.86	0.85	0.49	5.85
Economic Disadvantage	Free Lunch	29,323	0.89	0.87	0.54	5.99
	Reduced-Price Lunch	2,066	0.88	0.87	0.55	6.10
	Regular Lunch	18,678	0.89	0.88	0.53	6.40
IEP	Non-IEP	42,802	0.89	0.88	0.53	6.20
	IEP	7,265	0.90	0.89	0.64	6.12

Grade 4 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	50,133	0.90	0.89	0.71	5.74
Gender	Female	24,748	0.90	0.88	0.70	5.72
	Male	25,337	0.91	0.89	0.72	5.75
Ethnicity	Hispanic	3,565	0.89	0.87	0.70	5.54

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Asian	820	0.91	0.90	0.72	6.11
	Native Hawaiian/Pacific Islander	70	0.91	0.89	0.61	5.22
	Black/African American	5,104	0.88	0.86	0.68	5.38
	American Indian	62	0.90	0.89	0.62	5.65
	White	38,275	0.90	0.88	0.70	5.78
	Other	2,233	0.89	0.87	0.71	5.74
	Missing	4	--	--	--	--
Migrant	Non-Migrant	49,944	0.90	0.89	0.71	5.74
	Migrant	189	0.89	0.87	0.72	5.59
LEP	Non-LEP	48,566	0.90	0.88	0.70	5.75
	LEP	1,567	0.86	0.82	0.68	5.36
Economic Disadvantage	Free Lunch	28,778	0.89	0.87	0.69	5.56
	Reduced-Price Lunch	2,237	0.89	0.88	0.68	5.66
	Regular Lunch	19,118	0.90	0.89	0.69	5.92
IEP	Non-IEP	43,265	0.90	0.88	0.69	5.75
	IEP	6,868	0.89	0.87	0.77	5.67

Grade 5 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,410	0.90	0.88	0.65	5.53
Gender	Female	24,134	0.89	0.87	0.64	5.46
	Male	25,228	0.90	0.89	0.65	5.57
Ethnicity	Hispanic	3,428	0.87	0.85	0.60	5.37
	Asian	854	0.92	0.91	0.69	5.97
	Native Hawaiian/Pacific Islander	57	0.87	0.84	0.62	5.30
	Black/African American	4,881	0.86	0.84	0.57	5.35
	American Indian	66	0.89	0.87	0.59	5.45
	White	38,134	0.90	0.88	0.64	5.53
	Other	1,988	0.89	0.87	0.61	5.47
	Missing	2	--	--	--	--
Migrant	Non-Migrant	49,238	0.90	0.88	0.65	5.53
	Migrant	172	0.84	0.82	0.40	5.32
LEP	Non-LEP	48,265	0.90	0.88	0.64	5.53
	LEP	1,145	0.81	0.78	0.56	5.41
Economic Disadvantage	Free Lunch	27,032	0.87	0.85	0.60	5.42
	Reduced-Price Lunch	2,126	0.89	0.87	0.60	5.45
	Regular Lunch	20,252	0.90	0.89	0.64	5.61
IEP	Non-IEP	43,266	0.89	0.88	0.63	5.52
	IEP	6,144	0.88	0.86	0.72	5.50

Grade 6 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	48,050	0.89	0.87	0.67	5.54
Gender	Female	23,735	0.89	0.86	0.66	5.51
	Male	24,291	0.89	0.87	0.68	5.56
Ethnicity	Hispanic	3,018	0.87	0.84	0.66	5.46
	Asian	835	0.91	0.89	0.67	5.85
	Native Hawaiian/Pacific Islander	58	0.88	0.85	0.57	5.24
	Black/African American	4,812	0.87	0.83	0.68	5.45
	American Indian	59	0.90	0.88	0.71	5.47
	White	37,508	0.89	0.86	0.65	5.53
	Other	1,755	0.88	0.86	0.66	5.52
	Missing	5	--	--	--	--
Migrant	Non-Migrant	47,903	0.89	0.87	0.67	5.54
	Migrant	147	0.86	0.83	0.66	5.35
LEP	Non-LEP	47,148	0.89	0.87	0.67	5.54
	LEP	902	0.81	0.76	0.63	5.50
Economic Disadvantage	Free Lunch	25,630	0.87	0.84	0.66	5.47
	Reduced-Price Lunch	2,060	0.88	0.85	0.64	5.46
	Regular Lunch	20,360	0.89	0.87	0.63	5.57
IEP	Non-IEP	42,717	0.89	0.86	0.64	5.51
	IEP	5,333	0.87	0.83	0.77	5.67

Grade 7 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,670	0.91	0.90	0.65	5.33
Gender	Female	23,626	0.91	0.89	0.63	5.33
	Male	24,009	0.91	0.90	0.66	5.32
Ethnicity	Hispanic	2,726	0.89	0.86	0.61	5.20
	Asian	855	0.93	0.93	0.69	5.78
	Native Hawaiian/Pacific Islander	51	0.91	0.90	0.58	6.26
	Black/African American	4,704	0.87	0.84	0.58	5.12
	American Indian	69	0.91	0.90	0.54	5.27
	White	37,733	0.91	0.89	0.64	5.33
	Other	1,528	0.91	0.89	0.65	5.31
	Missing	4	--	--	--	--
Migrant	Non-Migrant	47,520	0.91	0.90	0.65	5.33
	Migrant	150	0.85	0.82	0.43	5.15
LEP	Non-LEP	46,793	0.91	0.90	0.65	5.33
	LEP	877	0.82	0.78	0.57	5.25
Economic Disadvantage	Free Lunch	24,632	0.89	0.87	0.61	5.19
	Reduced-Price Lunch	2,175	0.90	0.88	0.60	5.24
	Regular Lunch	20,863	0.91	0.90	0.65	5.42

IEP	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
	Non-IEP	42,583	0.91	0.89	0.64	5.33
	IEP	5,087	0.88	0.85	0.66	5.24

Grade 8 Mathematics

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,893	0.91	0.90	0.76	5.58
Gender	Female	23,657	0.91	0.89	0.75	5.58
	Male	24,211	0.92	0.90	0.77	5.58
Ethnicity	Hispanic	2,727	0.90	0.87	0.74	5.38
	Asian	846	0.93	0.92	0.79	5.99
	Native Hawaiian/Pacific Islander	45	0.93	0.91	0.81	5.95
	Black/African American	4,966	0.89	0.86	0.75	5.26
	American Indian	57	0.90	0.87	0.74	5.26
	White	37,854	0.91	0.89	0.76	5.59
	Other	1,397	0.91	0.89	0.75	5.51
	Missing	1	--	--	--	--
Migrant	Non-Migrant	47,762	0.91	0.90	0.76	5.58
	Migrant	131	0.89	0.86	0.71	5.14
LEP	Non-LEP	46,984	0.91	0.90	0.76	5.58
	LEP	909	0.86	0.82	0.70	5.23
Economic Disadvantage	Free Lunch	24,180	0.90	0.88	0.74	5.37
	Reduced-Price Lunch	2,110	0.91	0.89	0.74	5.50
	Regular Lunch	21,603	0.92	0.90	0.76	5.72
IEP	Non-IEP	43,089	0.91	0.89	0.76	5.60
	IEP	4,804	0.88	0.84	0.74	5.27

Grade 5 Social Studies

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	49,842	0.90	0.89	0.65	5.56
Gender	Female	24,290	0.89	0.88	0.65	5.64
	Male	25,503	0.90	0.90	0.64	5.48
Ethnicity	Hispanic	3,460	0.89	0.88	0.64	5.42
	Asian	854	0.92	0.92	0.71	6.16
	Native Hawaiian/Pacific Islander	58	0.88	0.86	0.74	5.66
	Black/African American	4,936	0.89	0.87	0.65	5.27
	American Indian	67	0.88	0.87	0.67	5.75
	White	38,448	0.89	0.89	0.62	5.58
	Other	2,017	0.89	0.88	0.63	5.45
	Missing	2	--	--	--	--
Migrant	Non-Migrant	49,669	0.90	0.89	0.65	5.56
	Migrant	173	0.85	0.83	0.63	5.45
LEP	Non-LEP	48,711	0.90	0.89	0.64	5.57
	LEP	1,131	0.84	0.81	0.61	5.11

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
Economic Disadvantage	Free Lunch	27,267	0.89	0.88	0.63	5.38
	Reduced-Price Lunch	2,159	0.88	0.88	0.59	5.50
	Regular Lunch	20,416	0.89	0.89	0.62	5.73
IEP	Non-IEP	43,691	0.89	0.88	0.62	5.60
	IEP	6,151	0.90	0.89	0.73	5.43

Grade 8 Social Studies

	Test Group	N	Alpha	MC Alpha	CR Alpha	SEM
All	Students Tested	47,815	0.92	0.91	0.71	5.78
Gender	Female	23,621	0.91	0.90	0.70	5.87
	Male	24,169	0.92	0.92	0.71	5.66
Ethnicity	Hispanic	2,742	0.91	0.90	0.70	5.72
	Asian	836	0.93	0.92	0.79	6.21
	Native Hawaiian/Pacific Islander	41	0.92	0.91	0.75	5.93
	Black/African American	4,907	0.90	0.89	0.72	5.60
	American Indian	61	0.91	0.90	0.75	5.73
	White	37,828	0.91	0.91	0.69	5.78
	Other	1,399	0.91	0.90	0.70	5.77
	Missing	1	--	--	--	--
Migrant	Non-Migrant	47,686	0.92	0.91	0.71	5.78
	Migrant	129	0.89	0.88	0.70	5.49
LEP	Non-LEP	46,923	0.92	0.91	0.70	5.78
	LEP	892	0.81	0.77	0.70	5.46
Economic Disadvantage	Free Lunch	24,112	0.91	0.90	0.69	5.61
	Reduced-Price Lunch	2,107	0.91	0.90	0.67	5.79
	Regular Lunch	21,596	0.91	0.91	0.70	5.89
IEP	Non-IEP	43,058	0.91	0.90	0.68	5.82
	IEP	4,757	0.89	0.88	0.71	5.51

Grade 4 Language Mechanics[12]

	Test Group	N	Alpha	SEM
All	Students Tested	51,822	0.85	16.8
Gender	Female	25,485	0.84	17.1
	Male	26,287	0.85	16.6
Ethnicity	Hispanic	3,703	0.84	18.2
	Asian	838	0.88	19.6
	Native Hawaiian/Pacific Islander	72	0.84	15.4
	Black/African American	5,392	0.85	16.7
	American Indian	64	0.88	17.4
	White	39,430	0.84	16.7
	Other	2,319	0.84	16.5

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[12] Language Mechanics is composed of multiple-choice items only.

	Test Group	N	Alpha	SEM
	Missing	4	--	--
Migrant	Non-Migrant	51,622	0.85	16.8
	Migrant	200	0.87	25.6
LEP	Non-LEP	50,189	0.85	16.6
	LEP	1,633	0.81	27.2
Economic Disadvantage	Free Lunch	29,917	0.84	16.5
	Reduced-Price Lunch	2,290	0.83	16.2
	Regular Lunch	19,615	0.83	17.4
IEP	Non-IEP	44,718	0.84	17.1
	IEP	7,104	0.84	16.0

Grade 6 Language Mechanics

	Test Group	N	Alpha	SEM
All	Students Tested	49,317	0.86	16.9
Gender	Female	24,146	0.84	17.1
	Male	25,145	0.86	16.8
Ethnicity	Hispanic	3,110	0.84	17.2
	Asian	857	0.87	16.5
	Native Hawaiian/Pacific Islander	60	0.82	15.8
	Black/African American	5,102	0.86	17.0
	American Indian	60	0.85	15.8
	White	38,304	0.85	16.9
	Other	1,819	0.85	17.3
	Missing	5	0.57	14.1
Migrant	Non-Migrant	49,166	0.86	16.9
	Migrant	151	0.83	21.9
LEP	Non-LEP	48,352	0.85	16.8
	LEP	965	0.78	25.5
Economic Disadvantage	Free Lunch	26,491	0.85	16.8
	Reduced-Price Lunch	2,105	0.84	17.1
	Regular Lunch	20,721	0.84	17.1
IEP	Non-IEP	43,723	0.84	17.1
	IEP	5,594	0.83	18.0

Subdomain (Reporting Category)

Grade 3 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	50,294	0.85	0.68	0.67	0.48	0.45
Gender	Female	24,847	0.84	0.67	0.67	0.48	0.43
	Male	25,397	0.85	0.69	0.68	0.48	0.46
Ethnicity	Hispanic	3,725	0.83	0.65	0.63	0.45	0.42
	Asian	819	0.86	0.67	0.70	0.53	0.45
	Native Hawaiian/Pacific Islander	81	0.89	0.76	0.70	0.53	0.54
	Black/African American	5,053	0.85	0.69	0.67	0.47	0.42
	American Indian	57	0.87	0.76	0.70	0.52	0.31
	White	38,358	0.84	0.67	0.66	0.47	0.43
	Other	2,195	0.85	0.68	0.67	0.48	0.43
	Missing	6	--	--	--	--	--
Migrant	Non-Migrant	50,114	0.85	0.68	0.67	0.48	0.45
	Migrant	180	0.80	0.66	0.53	0.24	0.42
LEP	Non-LEP	47,827	0.85	0.69	0.67	0.48	0.44
	LEP	2,467	0.80	0.61	0.59	0.35	0.38
Economic Disadvantage	Free Lunch	29,436	0.85	0.68	0.66	0.47	0.44
	Reduced-Price Lunch	2,085	0.83	0.67	0.63	0.42	0.42
	Regular Lunch	18,773	0.83	0.64	0.64	0.45	0.40
IEP	Non-IEP	42,943	0.84	0.67	0.66	0.46	0.41
	IEP	7,351	0.87	0.72	0.71	0.53	0.50

Grade 4 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	50,528	0.86	0.65	0.54	0.60	0.65
Gender	Female	25,052	0.86	0.65	0.53	0.60	0.63
	Male	25,428	0.87	0.66	0.54	0.61	0.66
Ethnicity	Hispanic	3,598	0.85	0.62	0.51	0.58	0.62
	Asian	819	0.87	0.65	0.60	0.59	0.67
	Native Hawaiian/Pacific Islander	72	0.85	0.62	0.58	0.54	0.65
	Black/African American	5,131	0.86	0.66	0.50	0.60	0.63
	American Indian	62	0.90	0.74	0.61	0.71	0.62
	White	38,597	0.85	0.63	0.52	0.59	0.63
	Other	2,245	0.85	0.64	0.52	0.59	0.63
	Missing	4	--	--	--	--	--
Migrant	Non-Migrant	50,334	0.86	0.65	0.54	0.60	0.65
	Migrant	194	0.83	0.62	0.42	0.60	0.51
LEP	Non-LEP	48,976	0.86	0.65	0.53	0.60	0.64

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
	LEP	1,552	0.80	0.60	0.37	0.50	0.51
Economic Disadvantage	Free Lunch	29,001	0.85	0.64	0.50	0.59	0.63
	Reduced-Price Lunch	2,234	0.84	0.60	0.52	0.58	0.62
	Regular Lunch	19,293	0.85	0.61	0.52	0.57	0.61
IEP	Non-IEP	43,687	0.86	0.64	0.53	0.59	0.63
	IEP	6,841	0.87	0.68	0.53	0.60	0.67

Grade 5 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	49,726	0.87	0.72	0.60	0.60	0.51
Gender	Female	24,257	0.86	0.71	0.59	0.58	0.51
	Male	25,423	0.87	0.72	0.61	0.61	0.50
Ethnicity	Hispanic	3,457	0.85	0.70	0.57	0.58	0.48
	Asian	854	0.89	0.77	0.65	0.64	0.58
	Native Hawaiian/Pacific Islander	58	0.88	0.78	0.63	0.58	0.44
	Black/African American	4,915	0.85	0.70	0.56	0.56	0.48
	American Indian	67	0.89	0.73	0.65	0.64	0.61
	White	38,374	0.86	0.71	0.58	0.59	0.49
	Other	1,999	0.85	0.70	0.58	0.53	0.46
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	49,552	0.87	0.72	0.60	0.59	0.51
	Migrant	174	0.83	0.65	0.61	0.56	0.44
LEP	Non-LEP	48,585	0.86	0.71	0.59	0.59	0.50
	LEP	1,141	0.76	0.60	0.40	0.46	0.28
Economic Disadvantage	Free Lunch	27,169	0.85	0.70	0.57	0.56	0.48
	Reduced-Price Lunch	2,150	0.85	0.69	0.59	0.57	0.45
	Regular Lunch	20,407	0.86	0.70	0.58	0.58	0.49
IEP	Non-IEP	43,565	0.86	0.71	0.59	0.58	0.49
	IEP	6,161	0.87	0.71	0.58	0.61	0.52

Grade 6 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,508	0.84	0.62	0.50	0.60	0.57
Gender	Female	23,925	0.84	0.59	0.49	0.60	0.54
	Male	24,557	0.85	0.63	0.51	0.60	0.60
Ethnicity	Hispanic	3,039	0.83	0.58	0.47	0.58	0.54
	Asian	841	0.85	0.60	0.49	0.64	0.58
	Native Hawaiian/Pacific Islander	60	0.81	0.54	0.38	0.57	0.41
	Black/African American	4,899	0.84	0.62	0.49	0.60	0.54
	American Indian	59	0.84	0.57	0.26	0.68	0.66
	White	37,827	0.84	0.61	0.49	0.59	0.56
	Other	1,778	0.83	0.58	0.47	0.58	0.53
	Missing	5	--	--	--	--	--
Migrant	Non-Migrant	48,360	0.84	0.62	0.50	0.60	0.57
	Migrant	148	0.81	0.52	0.47	0.55	0.56
LEP	Non-LEP	47,611	0.84	0.61	0.50	0.60	0.57
	LEP	897	0.71	0.45	0.31	0.40	0.31
Economic Disadvantage	Free Lunch	25,926	0.83	0.59	0.48	0.58	0.55
	Reduced-Price Lunch	2,064	0.83	0.59	0.46	0.59	0.55
	Regular Lunch	20,518	0.83	0.60	0.47	0.59	0.54
IEP	Non-IEP	43,089	0.84	0.60	0.49	0.60	0.55
	IEP	5,419	0.84	0.62	0.48	0.58	0.59

Grade 7 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,615	0.85	0.50	0.58	0.58	0.66
Gender	Female	23,941	0.84	0.50	0.57	0.55	0.64
	Male	24,638	0.85	0.50	0.58	0.60	0.68
Ethnicity	Hispanic	2,806	0.82	0.46	0.51	0.53	0.61
	Asian	869	0.88	0.59	0.63	0.61	0.72
	Native Hawaiian/Pacific Islander	52	0.84	0.51	0.56	0.62	0.57
	Black/African American	4,842	0.82	0.47	0.50	0.55	0.61
	American Indian	69	0.86	0.45	0.68	0.59	0.67
	White	38,401	0.84	0.48	0.58	0.57	0.65
	Other	1,572	0.84	0.50	0.56	0.58	0.64
	Missing	4	--	--	--	--	--
Migrant	Non-Migrant	48,462	0.85	0.50	0.58	0.58	0.66
	Migrant	153	0.83	0.44	0.51	0.52	0.66
LEP	Non-LEP	47,733	0.85	0.49	0.58	0.58	0.66
	LEP	882	0.70	0.29	0.32	0.38	0.43
	Free Lunch	25,198	0.83	0.47	0.54	0.55	0.64

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
Economic Disadvantage	Reduced-Price Lunch	2,217	0.83	0.48	0.54	0.55	0.63
	Regular Lunch	21,200	0.84	0.47	0.58	0.57	0.65
IEP	Non-IEP	43,466	0.84	0.48	0.57	0.57	0.65
	IEP	5,149	0.83	0.47	0.52	0.53	0.64

Grade 8 Reading

	Test Group	N	Alpha	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
All	Students Tested	48,466	0.87	0.68	0.58	0.51	0.72
Gender	Female	23,865	0.87	0.66	0.59	0.51	0.71
	Male	24,575	0.87	0.69	0.57	0.51	0.73
Ethnicity	Hispanic	2,759	0.86	0.68	0.57	0.47	0.71
	Asian	846	0.90	0.73	0.65	0.56	0.76
	Native Hawaiian/Pacific Islander	45	0.88	0.70	0.47	0.61	0.75
	Black/African American	5,071	0.86	0.69	0.56	0.42	0.70
	American Indian	61	0.87	0.62	0.67	0.48	0.74
	White	38,260	0.87	0.67	0.57	0.51	0.71
	Other	1,423	0.87	0.67	0.59	0.50	0.69
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	48,340	0.87	0.68	0.58	0.51	0.72
	Migrant	126	0.86	0.74	0.53	0.36	0.70
LEP	Non-LEP	47,562	0.87	0.68	0.58	0.51	0.72
	LEP	904	0.75	0.58	0.38	0.14	0.55
Economic Disadvantage	Free Lunch	24,535	0.86	0.67	0.55	0.45	0.70
	Reduced-Price Lunch	2,129	0.86	0.66	0.55	0.49	0.69
	Regular Lunch	21,802	0.87	0.66	0.58	0.52	0.71
IEP	Non-IEP	43,602	0.86	0.66	0.57	0.50	0.70
	IEP	4,864	0.85	0.65	0.53	0.41	0.68

Grade 3 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	50,067	0.90	0.64	0.71	0.74	0.71
Gender	Female	24,713	0.89	0.63	0.70	0.72	0.70
	Male	25,303	0.90	0.66	0.72	0.75	0.72
Ethnicity	Hispanic	3,722	0.88	0.63	0.69	0.70	0.68
	Asian	812	0.91	0.67	0.74	0.77	0.71

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
	Native Hawaiian/Pacific Islander	82	0.91	0.65	0.72	0.76	0.70
	Black/African American	5,105	0.89	0.61	0.73	0.70	0.68
	American Indian	57	0.85	0.50	0.66	0.65	0.69
	White	38,087	0.89	0.64	0.70	0.74	0.70
	Other	2,196	0.89	0.63	0.72	0.73	0.70
	Missing	6	--	--	--	--	--
Migrant	Non-Migrant	49,883	0.90	0.64	0.71	0.74	0.71
	Migrant	184	0.86	0.50	0.69	0.66	0.64
LEP	Non-LEP	47,580	0.90	0.64	0.71	0.74	0.71
	LEP	2,487	0.86	0.58	0.69	0.63	0.65
Economic Disadvantage	Free Lunch	29,323	0.89	0.62	0.71	0.70	0.69
	Reduced-Price Lunch	2,066	0.88	0.59	0.70	0.72	0.66
	Regular Lunch	18,678	0.89	0.63	0.69	0.74	0.68
IEP	Non-IEP	42,802	0.89	0.62	0.70	0.73	0.68
	IEP	7,265	0.90	0.67	0.74	0.72	0.74

Grade 4 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	50,133	0.90	0.67	0.72	0.70	0.72
Gender	Female	24,748	0.90	0.67	0.71	0.68	0.71
	Male	25,337	0.91	0.68	0.73	0.72	0.73
Ethnicity	Hispanic	3,565	0.89	0.64	0.71	0.68	0.69
	Asian	820	0.91	0.68	0.72	0.74	0.74
	Native Hawaiian/Pacific Islander	70	0.91	0.71	0.75	0.69	0.75
	Black/African American	5,104	0.88	0.63	0.69	0.64	0.66
	American Indian	62	0.90	0.70	0.77	0.67	0.71
	White	38,275	0.90	0.67	0.71	0.70	0.72
	Other	2,233	0.89	0.66	0.70	0.68	0.70
	Missing	4	--	--	--	--	--
Migrant	Non-Migrant	49,944	0.90	0.68	0.72	0.70	0.72
	Migrant	189	0.89	0.61	0.72	0.67	0.71
LEP	Non-LEP	48,566	0.90	0.67	0.72	0.70	0.72
	LEP	1,567	0.86	0.53	0.68	0.59	0.62
Economic Disadvantage	Free Lunch	28,778	0.89	0.65	0.70	0.67	0.68
	Reduced-Price Lunch	2,237	0.89	0.66	0.70	0.67	0.71

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
	Regular Lunch	19,118	0.90	0.67	0.71	0.71	0.72
IEP	Non-IEP	43,265	0.90	0.67	0.71	0.69	0.71
	IEP	6,868	0.89	0.66	0.71	0.67	0.70

Grade 5 Mathematics

	Test Group	N	Alpha	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data, Geometry
All	Students Tested	49,410	0.90	0.68	0.65	0.67	0.74
Gender	Female	24,134	0.89	0.66	0.63	0.65	0.73
	Male	25,228	0.90	0.69	0.67	0.69	0.75
Ethnicity	Hispanic	3,428	0.87	0.63	0.60	0.63	0.69
	Asian	854	0.92	0.75	0.70	0.72	0.80
	Native Hawaiian/Pacific Islander	57	0.87	0.54	0.62	0.59	0.73
	Black/African American	4,881	0.86	0.63	0.59	0.58	0.65
	American Indian	66	0.89	0.64	0.60	0.73	0.74
	White	38,134	0.90	0.68	0.65	0.67	0.74
	Other	1,988	0.89	0.67	0.64	0.65	0.72
	Missing	2	--	--	--	--	--
Migrant	Non-Migrant	49,238	0.90	0.68	0.65	0.67	0.74
	Migrant	172	0.84	0.60	0.51	0.57	0.64
LEP	Non-LEP	48,265	0.90	0.68	0.65	0.67	0.74
	LEP	1,145	0.81	0.54	0.54	0.48	0.58
Economic Disadvantage	Free Lunch	27,032	0.87	0.64	0.60	0.61	0.70
	Reduced-Price Lunch	2,126	0.89	0.65	0.62	0.65	0.73
	Regular Lunch	20,252	0.90	0.69	0.66	0.69	0.75
IEP	Non-IEP	43,266	0.89	0.67	0.65	0.67	0.73
	IEP	6,144	0.88	0.67	0.61	0.61	0.73

Grade 6 Mathematics

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	48,050	0.89	0.68	0.70	0.71	0.65	0.35
Gender	Female	23,735	0.89	0.66	0.69	0.69	0.65	0.34
	Male	24,291	0.89	0.69	0.70	0.73	0.66	0.35

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
Ethnicity	Hispanic	3,018	0.87	0.64	0.67	0.66	0.62	0.28
	Asian	835	0.91	0.75	0.72	0.73	0.68	0.46
	Native Hawaiian/Pacific Islander	58	0.88	0.65	0.65	0.71	0.56	0.17
	Black/African American	4,812	0.87	0.62	0.68	0.69	0.57	0.24
	American Indian	59	0.90	0.72	0.70	0.75	0.72	0.28
	White	37,508	0.89	0.67	0.69	0.71	0.65	0.35
	Other	1,755	0.88	0.67	0.68	0.70	0.64	0.33
	Missing	5	--	--	--	--	--	--
Migrant	Non-Migrant	47,903	0.89	0.68	0.70	0.71	0.65	0.35
	Migrant	147	0.86	0.63	0.59	0.65	0.54	0.35
LEP	Non-LEP	47,148	0.89	0.67	0.70	0.71	0.65	0.35
	LEP	902	0.81	0.50	0.66	0.62	0.49	0.09
Economic Disadvantage	Free Lunch	25,630	0.87	0.64	0.68	0.69	0.61	0.27
	Reduced-Price Lunch	2,060	0.88	0.65	0.69	0.69	0.64	0.28
	Regular Lunch	20,360	0.89	0.67	0.68	0.70	0.65	0.38
IEP	Non-IEP	42,717	0.89	0.65	0.70	0.70	0.65	0.34
	IEP	5,333	0.87	0.65	0.68	0.69	0.58	0.25

Grade 7 Mathematics

	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
All	Students Tested	47,670	0.91	0.69	0.74	0.66	0.65	0.64
Gender	Female	23,626	0.91	0.67	0.73	0.65	0.64	0.62
	Male	24,009	0.91	0.70	0.75	0.67	0.67	0.66
Ethnicity	Hispanic	2,726	0.89	0.65	0.70	0.58	0.58	0.57
	Asian	855	0.93	0.72	0.80	0.76	0.70	0.71
	Native Hawaiian/Pacific Islander	51	0.91	0.65	0.72	0.65	0.74	0.69
	Black/African American	4,704	0.87	0.64	0.66	0.56	0.53	0.54
	American Indian	69	0.91	0.60	0.77	0.71	0.59	0.63
	White	37,733	0.91	0.68	0.74	0.66	0.65	0.63
	Other	1,528	0.91	0.69	0.74	0.64	0.66	0.61
	Missing	4	--	--	--	--	--	--
Migrant	Non-Migrant	47,520	0.91	0.69	0.74	0.66	0.65	0.64
	Migrant	150	0.85	0.52	0.63	0.51	0.60	0.52
LEP	Non-LEP	46,793	0.91	0.69	0.74	0.66	0.65	0.64
	LEP	877	0.82	0.56	0.64	0.41	0.50	0.42
Economic Disadvantage	Free Lunch	24,632	0.89	0.65	0.70	0.59	0.60	0.59
	Reduced-Price Lunch	2,175	0.90	0.66	0.70	0.63	0.62	0.61
	Regular Lunch	20,863	0.91	0.69	0.75	0.68	0.65	0.63

IEP	Test Group	N	Alpha	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
	Non-IEP	42,583	0.91	0.68	0.74	0.65	0.64	0.63
	IEP	5,087	0.88	0.64	0.74	0.58	0.59	0.57

Grade 8 Mathematics

	Test Group	N	Alpha	The Number System and Expressions & Equations	Functions	Geometry	Statistics and Probability
All	Students Tested	47,893	0.91	0.77	0.67	0.80	0.67
Gender	Female	23,657	0.91	0.76	0.65	0.79	0.64
	Male	24,211	0.92	0.78	0.68	0.80	0.68
Ethnicity	Hispanic	2,727	0.90	0.73	0.63	0.78	0.61
	Asian	846	0.93	0.82	0.72	0.83	0.70
	Native Hawaiian/Pacific Islander	45	0.93	0.77	0.74	0.82	0.73
	Black/African American	4,966	0.89	0.71	0.61	0.76	0.61
	American Indian	57	0.90	0.71	0.68	0.77	0.52
	White	37,854	0.91	0.77	0.67	0.79	0.66
	Other	1,397	0.91	0.75	0.64	0.80	0.66
	Missing	1	--	--	--	--	--
Migrant	Non-Migrant	47,762	0.91	0.77	0.67	0.80	0.67
	Migrant	131	0.89	0.70	0.65	0.76	0.44
LEP	Non-LEP	46,984	0.91	0.77	0.67	0.80	0.67
	LEP	909	0.86	0.65	0.56	0.72	0.51
Economic Disadvantage	Free Lunch	24,180	0.90	0.74	0.63	0.77	0.62
	Reduced-Price Lunch	2,110	0.91	0.76	0.65	0.78	0.63
	Regular Lunch	21,603	0.92	0.78	0.67	0.80	0.67
IEP	Non-IEP	43,089	0.91	0.77	0.66	0.79	0.65
	IEP	4,804	0.88	0.70	0.56	0.74	0.57

Grade 5 Social Studies

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	49,842	0.90	0.62	0.58	0.64	0.56	0.75
Gender	Female	24,290	0.89	0.60	0.58	0.63	0.54	0.73
	Male	25,503	0.90	0.64	0.59	0.65	0.59	0.77
Ethnicity	Hispanic	3,460	0.89	0.57	0.57	0.63	0.53	0.72
	Asian	854	0.92	0.67	0.65	0.70	0.62	0.80
	Native Hawaiian/Pacific Islander	58	0.88	0.53	0.60	0.59	0.54	0.68
	Black/African American	4,936	0.89	0.59	0.58	0.63	0.49	0.72
	American Indian	67	0.88	0.52	0.66	0.61	0.51	0.73
	White	38,448	0.89	0.62	0.57	0.62	0.56	0.75
	Other	2,017	0.89	0.58	0.58	0.63	0.50	0.73
	Missing	2	--	--	--	--	--	--
Migrant	Non-Migrant	49,669	0.90	0.62	0.58	0.64	0.56	0.75
	Migrant	173	0.85	0.49	0.48	0.58	0.40	0.65
LEP	Non-LEP	48,711	0.90	0.62	0.58	0.64	0.56	0.75
	LEP	1,131	0.84	0.48	0.47	0.54	0.39	0.61
Economic Disadvantage	Free Lunch	27,267	0.89	0.60	0.56	0.64	0.52	0.73
	Reduced-Price Lunch	2,159	0.88	0.58	0.56	0.61	0.53	0.72
	Regular Lunch	20,416	0.89	0.61	0.56	0.60	0.56	0.74
IEP	Non-IEP	43,691	0.89	0.61	0.56	0.62	0.55	0.74
	IEP	6,151	0.90	0.63	0.60	0.69	0.56	0.75

Grade 8 Social Studies

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
All	Students Tested	47,815	0.92	0.78	0.60	0.64	0.61	0.74
Gender	Female	23,621	0.91	0.76	0.57	0.62	0.59	0.70
	Male	24,169	0.92	0.79	0.62	0.66	0.62	0.76
Ethnicity	Hispanic	2,742	0.91	0.74	0.56	0.61	0.58	0.72
	Asian	836	0.93	0.78	0.63	0.70	0.66	0.76
	Native Hawaiian/Pacific Islander	41	0.92	0.79	0.70	0.50	0.61	0.75
	Black/African American	4,907	0.90	0.74	0.57	0.59	0.51	0.70
	American Indian	61	0.91	0.74	0.56	0.67	0.63	0.72
	White	37,828	0.91	0.77	0.59	0.63	0.60	0.73
	Other	1,399	0.91	0.77	0.60	0.64	0.57	0.73
	Missing	1	--	--	--	--	--	--
Migrant	Non-Migrant	47,686	0.92	0.78	0.60	0.64	0.61	0.74
	Migrant	129	0.89	0.71	0.50	0.44	0.46	0.73
LEP	Non-LEP	46,923	0.92	0.78	0.59	0.64	0.60	0.73
	LEP	892	0.81	0.53	0.35	0.39	0.39	0.52
	Free Lunch	24,112	0.91	0.76	0.56	0.61	0.56	0.72

	Test Group	N	Alpha	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
Economic Disadvantage	Reduced-Price Lunch	2,107	0.91	0.76	0.56	0.62	0.57	0.72
	Regular Lunch	21,596	0.91	0.77	0.59	0.63	0.60	0.72
IEP	Non-IEP	43,058	0.91	0.76	0.57	0.62	0.59	0.72
	IEP	4,757	0.89	0.72	0.51	0.56	0.51	0.69

Appendix O. Scoring Metrics for K-PREP Constructed-Response Items

Subject	Grade	Item Type	Validity[13]		Reliability		Score Distribution									
			Perfect	Non-Adj	Perfect	Non-Adj	0	1	2	3	4	B	A	F	I	O
Reading	3	SA	96 / --	0 / --	83 / --	1 / --	27 / 43	41 / 41	29 / 7	-	-	2 / 8	0	0	0	1
		SA	97 / --	0 / --	83 / --	1 / --	23 / 16	41 / 68	35 / 12	-	-	1 / 4	0	0	0	0
	4	SA	95 / --	0 / --	89 / --	0 / --	70 / 57	23 / 33	6 / 9	-	-	1	0	0	0	0
		ER	81 / --	0 / --	65 / --	2 / --	17 / 29	32 / 30	38 / 30	10 / 7	2 / 1	2 / 2	0	0	0	0
		SA	96 / --	0 / --	85 / --	0 / --	34 / 36	47 / 45	18 / 18	-	-	1 / 1	0	0	0	0
	5	SA	91 / --	0 / --	83 / --	0 / --	38 / 20	48 / 75	13 / 4	-	-	1 / 2	0	0	0	0
		ER	73 / --	3 / --	65 / --	3 / --	15 / 7	23 / 47	45 / 40	13 / 5	4 / 1	1	0	0	0	0
		SA	90 / --	0 / --	78 / --	0 / --	21 / 13	68 / 85	11 / 1	-	-	1 / 1	0	0	0	0
	6	SA	92 / --	1 / --	82 / --	2 / --	61 / 67	23 / 23	15 / 10	-	-	1	0	0	0	0
		ER	80 / 77	3 / 4	66 / 66	1 / 7	14 / 19	27 / 32	40 / 39	10 / 5	8 / 4	1 / 1	0	0	0	0
		SA	86 / --	0 / --	81 / --	0 / --	35 / 57	53 / 38	10 / 5	-	-	1	0	0	0	0
	7	SA	93 / --	0 / --	85 / --	0 / --	21 / 24	59 / 61	19 / 14	-	-	1 / 1	0	0	0	0
		ER	73 / --	2 / --	66 / --	3 / --	9 / 11	13 / 19	42 / 44	25 / 19	11 / 7	1 / 1	0	0	0	0
		SA	92 / --	0 / --	84 / --	0 / --	43 / 41	40 / 30	16 / 29	-	-	1	0	0	0	0
	8	SA	91 / --	0 / --	88 / --	0 / --	34 / 40	43 / 41	22 / 17	-	-	1 / 3	0	0	0	0
		ER	89 / --	1 / --	63 / --	2 / --	6 / 5	15 / 11	33 / 47	25 / 29	19 / 8	1	0	0	0	0
		SA	84 / 82	0 / 0	80 / 82	0 / 1	25 / 33	58 / 50	16 / 16	-	-	1 / 1	0	0	0	0
Mathematics	3	SA	95 / 93	0 / 0	89 / 85	0 / 0	21 / 26	68 / 64	9 / 9	-	-	1 / 2	0	0	0	0
		SA	96 / --	0 / --	94 / --	0 / --	76 / 86	6 / 7	15 / 7	-	-	2	0	0	0	0
		SA	95 / 97	0 / 0	93 / 91	0 / 0	18 / 19	50 / 50	30 / 30	-	-	1 / 1	0	0	0	0
	4	SA	97 / 99	0 / 0	92 / 92	0 / 0	43 / 40	25 / 33	30 / 26	-	-	1 / 1	0	0	0	0
		SA	97	0	95	0	55	14	29	-	-	1	0	0	0	0

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[13] Validity statistics (highlighted in blue) are captured for items' most recent *operational* use, except for Writing.

Subject	Grade	Type															
			95	0	93	0	64	17	18			1				
		ER	91	0	81	1	25	33	16	15	9	2	0	0	0	0
			--	--	--	--	34	36	10	10	8	3				
		SA	97	0	92	0	54	26	18	-	-	2	0	0	0	0
			--	--	--	--	76	14	5			5				
	5	SA	90	0	90	0	60	29	10	-	-	1	0	0	0	0
			--	--	--	--	65	28	7			1				
		SA	96	0	86	1	58	18	23	-	-	1	0	0	0	0
			96	0	86	1	59	21	19			1				
		ER	89	1	84	1	9	61	15	9	5	1	0	0	0	0
			90	0	83	1	8	63	13	9	5	1				
		SA	94	0	87	0	35	29	35	-	-	1	0	0	0	0
			90	0	82	0	41	30	29			1				
	6	SA	97	0	91	0	11	39	49	-	-	1	0	0	0	0
			99	0	93	0	12	35	52			1				
		SA	97	0	94	0	27	56	15	-	-	1	0	0	0	0
			97	0	91	0	27	55	16			1				
		ER	90	0	78	1	33	42	12	7	4	2	0	0	0	0
			--	--	--	--	33	44	14	6	3					
		SA	98	0	91	0	41	34	24	-	-	1	0	0	0	0
			--	--	--	--	45	34	21			1				
	7	SA	90	0	92	1	79	17	1	-	-	2	0	0	0	0
			--	--	--	--	83	15	1			2				
		SA	90	0	89	0	56	28	15	-	-	1	0	0	0	0
			92	0	86	0	56	30	14			1				
		ER	86	0	81	1	39	16	12	16	15	2	0	0	0	0
			--	--	--	--	45	15	11	16	14	2				
		SA	97	0	94	0	65	13	21	-	-	1	0	0	0	0
			98	0	92	0	64	17	19			1				
	8	SA	94	0	93	0	39	20	39	-	-	1	0	0	0	0
			97	0	89	0	40	21	37			1				
		SA	92	0	86	0	60	22	16	-	-	2	0	0	0	0
			--	--	--	--	69	21	10			2				
		ER	88	1	72	0	10	35	19	19	15	1	0	0	0	0
			89	1	75	1	8	37	20	19	13	3				
		SA	96	0	93	0	48	15	36	-	-	1	0	0	0	0
			--	--	--	--	58	15	27			1				
Social Studies	5	ER	74	2	67	1	10	13	38	30	8	1	0	0	0	0
			79	1	63	1	11	20	40	24	5	1				
		ER	76	2	65	1	15	31	34	15	4	1	0	0	0	0
			80	1	59	2	12	32	37	16	3					
		ER	84	1	71	3	19	20	20	32	8	1	0	0	0	0
			--	--	--	--	20	20	19	34	8					
	8	ER	79	2	70	0	5	6	57	23	8	1	0	0	0	0
			83	1	71	0	4	7	59	24	6					
		ER	77	1	67	0	5	12	43	27	10	2	0	0	0	0
			--	--	--	--	5	11	50	26	8					
		ER	78	1	67	0	5	8	37	36	12	1	0	0	0	0
			77	2	62	1	4	9	41	32	14					
On Demand Writing	5	Prompt	86	0	67	1	-	11	48	34	6	1	0	0	0	0
			91	0	69	1		10	52	33	5					
		Prompt	88	0	67	0	-	10	49	35	5	0	0	0	0	0
			93	0	68	1		11	54	30	5					
		Prompt	86	0	68	1	-	11	50	32	6	1	0	0	0	1
			93	0	68	1		12	51	30	7					

	8	Prompt	86 95	0 0	71 71	0 1	-	18 17	38 38	28 31	10 11	5 2	0	0	0	1
		Prompt	87 97	0 0	67 67	1 1	-	8 7	38 36	42 43	11 14	0	0	0	0	0
		Prompt	88 93	0 0	68 68	1 1	-	10 12	33 35	43 39	12 13	1 1	0	0	0	0
	11	Prompt	86 97	0 0	67 66	1 1	-	9 8	38 40	45 45	6 7	1	0	0	0	0
		Prompt	90 93	0 0	67 66	1 2	-	11 13	42 41	39 39	7 7	0	0	0	0	1
		Prompt	87 89	0 0	69 66	0 1	-	10 9	34 34	45 46	9 10	1 1	0	0	0	1

Appendix P. On-Demand Writing Score Distribution and Rater Agreement

Prompt Type	Grade	Final Prompt Score								Condition Code					Rater Agreement		
		0	2	3	4	5	6	7	8	A	B	F	I	O	Perfect	Adjacent	Non-Adjacent
Passage-Based	5	1%	7%	7%	38%	18%	20%	6%	3%	22	94	1	3	158	68%	32%	1%
	8	0%	8%	5%	23%	15%	31%	11%	7%	10	139	2	4	84	68%	32%	1%
	11	2%	7%	6%	23%	16%	33%	9%	4%	33	597	2	9	263	69%	31%	0%
Choice	5	0%	7%	7%	35%	20%	22%	6%	8%	23	92	2	1	115	67%	33%	1%
	8	0%	7%	5%	27%	16%	27%	10%	8%	18	99	1	2	70	67%	32%	1%
	11	1%	7%	6%	26%	18%	31%	8%	8%	9	482	2	3	184	67%	32%	1%

A = Insufficient Amount to Score; B = Non-Response; F = Non-English; I = Illegible; O = Off-Topic

Appendix Q. Accuracy and Consistency[14]

Reading

Table 1. Accuracy Classification for Reading Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.17743	0.03232	0.00236	0.00001	
Apprentice	0.05289	0.12354	0.07297	0.00045	70.1
Proficient	0.00273	0.05147	0.28164	0.04414	
Distinguished	0.00000	0.00022	0.03940	0.11843	

Table 2. Accuracy Classification at Proficient Cut Point for Reading Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.17743	0.03232	0.00236	0.00001	
Apprentice	0.05289	0.12354	0.07297	0.00045	86.98
Proficient	0.00273	0.05147	0.28164	0.04414	
Distinguished	0.00000	0.00022	0.03940	0.11843	

Table 3. Consistency Classification for Reading Grade 3

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.16690	0.04869	0.01353	0.00011		
Apprentice	0.05519	0.09340	0.08807	0.00328	59.86	0.45
Proficient	0.01082	0.06212	0.22600	0.04732		
Distinguished	0.00013	0.00336	0.06876	0.11232		

Table 4. Accuracy Classification for Reading Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16831	0.03991	0.00112	0.00002	
Apprentice	0.04748	0.17897	0.05784	0.00025	71.16
Proficient	0.00146	0.06416	0.24649	0.04872	
Distinguished	0.00000	0.00010	0.02736	0.11782	

Table 5. Accuracy Classification at Proficient Cut Point for Reading Grade 4

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[14] Alternate K-PREP students are not included.

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16831	0.03991	0.00112	0.00002	
Apprentice	0.04748	0.17897	0.05784	0.00025	87.51
Proficient	0.00146	0.06416	0.24649	0.04872	
Distinguished	0.00000	0.00010	0.02736	0.11782	

Table 6. Consistency Classification for Reading Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.15863	0.06137	0.00782	0.00004		
Apprentice	0.05126	0.13816	0.07231	0.00242	61.12	0.47
Proficient	0.00731	0.08100	0.20234	0.05227		
Distinguished	0.00004	0.00262	0.05034	0.11207		

Table 7. Accuracy Classification for Reading Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16804	0.02643	0.00093	0.00001	
Apprentice	0.05109	0.13101	0.06042	0.00015	73.07
Proficient	0.00143	0.04778	0.29185	0.04727	
Distinguished	0.00000	0.00006	0.03375	0.13977	

Table 8. Accuracy Classification at Proficient Cut Point for Reading Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.16804	0.02643	0.00093	0.00001	
Apprentice	0.05109	0.13101	0.06042	0.00015	88.92
Proficient	0.00143	0.04778	0.29185	0.04727	
Distinguished	0.00000	0.00006	0.03375	0.13977	

Table 9. Consistency Classification for Reading Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.15857	0.04184	0.00733	0.00002		
Apprentice	0.05467	0.10207	0.07847	0.00186	63.5	0.50
Proficient	0.00730	0.05977	0.24175	0.05275		
Distinguished	0.00003	0.00159	0.05941	0.13257		

Table 10. Accuracy Classification for Reading Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12138	0.02822	0.00098	0.00001	
Apprentice	0.04411	0.15061	0.06271	0.00007	72.16
Proficient	0.00162	0.06212	0.35776	0.05017	
Distinguished	0.00000	0.00003	0.02836	0.09186	

Table 11. Accuracy Classification at Proficient Cut Point for Reading Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12138	0.02822	0.00098	0.00001	
Apprentice	0.04411	0.15061	0.06271	0.00007	87.25
Proficient	0.00162	0.06212	0.35776	0.05017	
Distinguished	0.00000	0.00003	0.02836	0.09186	

Table 12. Consistency Classification for Reading Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.11506	0.04694	0.00822	0.00001		
Apprentice	0.04498	0.11703	0.08469	0.00127	62.03	0.45
Proficient	0.00705	0.07581	0.30064	0.05324		
Distinguished	0.00001	0.00120	0.05626	0.08758		

Table 13. Accuracy Classification for Reading Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14385	0.03401	0.00108	0.00001	
Apprentice	0.04365	0.16065	0.05563	0.00016	70.91
Proficient	0.00174	0.06707	0.28875	0.05772	
Distinguished	0.00000	0.00008	0.02973	0.11588	

Table 14. Accuracy Classification at Proficient Cut Point for Reading Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.14385	0.03401	0.00108	0.00001	
Apprentice	0.04365	0.16065	0.05563	0.00016	87.42
Proficient	0.00174	0.06707	0.28875	0.05772	
Distinguished	0.00000	0.00008	0.02973	0.11588	

Table 15. Consistency Classification for Reading Grade 7

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13628	0.05414	0.00800	0.00003	60.85	0.46
Apprentice	0.04552	0.12442	0.07368	0.00220		
Proficient	0.00740	0.08110	0.23831	0.06209		
Distinguished	0.00003	0.00215	0.05520	0.10945		

Table 16. Accuracy Classification for Reading Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.17273	0.02906	0.00142	0.00001	72.1
Apprentice	0.04787	0.12271	0.05949	0.00028	
Proficient	0.00204	0.05050	0.26883	0.04980	
Distinguished	0.00000	0.00016	0.03836	0.15673	

Table 17. Accuracy Classification at Proficient Cut Point for Reading Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.17273	0.02906	0.00142	0.00001	88.61
Apprentice	0.04787	0.12271	0.05949	0.00028	
Proficient	0.00204	0.05050	0.26883	0.04980	
Distinguished	0.00000	0.00016	0.03836	0.15673	

Table 18. Consistency Classification for Reading Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.16328	0.04460	0.00940	0.00006	62.42	0.49
Apprentice	0.05074	0.09441	0.07594	0.00280		
Proficient	0.00857	0.06086	0.21868	0.05612		
Distinguished	0.00006	0.00256	0.06408	0.14785		

Mathematics

Table 19. Accuracy Classification for Mathematics Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12902	0.03182	0.00007	0.00000	
Apprentice	0.04192	0.24156	0.05797	0.00000	78.14
Proficient	0.00007	0.04404	0.32651	0.02401	
Distinguished	0.00000	0.00000	0.01869	0.08432	

Table 20. Accuracy Classification at Proficient Cut Point for Mathematics Grade 3

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.12902	0.03182	0.00007	0.00000	
Apprentice	0.04192	0.24156	0.05797	0.00000	89.79
Proficient	0.00007	0.04404	0.32651	0.02401	
Distinguished	0.00000	0.00000	0.01869	0.08432	

Table 21. Consistency Classification for Mathematics Grade 3

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12008	0.05169	0.00161	0.00000		
Apprentice	0.04963	0.20197	0.07604	0.00010	69.39	0.56
Proficient	0.00129	0.06366	0.29119	0.02762		
Distinguished	0.00000	0.00011	0.03441	0.08061		

Table 22. Accuracy Classification for Mathematics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13228	0.04102	0.00014	0.00000	
Apprentice	0.04671	0.25212	0.05445	0.00002	76.02
Proficient	0.00013	0.04646	0.24411	0.02906	
Distinguished	0.00000	0.00001	0.02185	0.13165	

Table 23. Accuracy Classification at Proficient Cut Point for Mathematics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13228	0.04102	0.00014	0.00000	
Apprentice	0.04671	0.25212	0.05445	0.00002	89.88
Proficient	0.00013	0.04646	0.24411	0.02906	
Distinguished	0.00000	0.00001	0.02185	0.13165	

Table 24. Consistency Classification for Mathematics Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12097	0.06343	0.00223	0.00000		
Apprentice	0.05620	0.20791	0.06909	0.00049	66.64	0.54
Proficient	0.00194	0.06773	0.21148	0.03417		
Distinguished	0.00000	0.00053	0.03775	0.12608		

Table 25. Accuracy Classification for Mathematics Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.09521	0.03095	0.00002	0.00000	
Apprentice	0.04045	0.30048	0.05740	0.00001	77.9
Proficient	0.00002	0.04488	0.27617	0.02642	
Distinguished	0.00000	0.00000	0.02089	0.10711	

Table 26. Accuracy Classification at Proficient Cut Point for Mathematics Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.09521	0.03095	0.00002	0.00000	
Apprentice	0.04045	0.30048	0.05740	0.00001	89.77
Proficient	0.00002	0.04488	0.27617	0.02642	
Distinguished	0.00000	0.00000	0.02089	0.10711	

Table 27. Consistency Classification for Mathematics Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.08808	0.05288	0.00079	0.00000		
Apprentice	0.04697	0.25673	0.07480	0.00029	68.91	0.56
Proficient	0.00062	0.06639	0.24185	0.03081		
Distinguished	0.00000	0.00031	0.03703	0.10244		

Table 28. Accuracy Classification for Mathematics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.11179	0.02392	0.00001	0.00000	
Apprentice	0.04238	0.28282	0.05915	0.00000	78.47
Proficient	0.00002	0.04595	0.31709	0.02650	
Distinguished	0.00000	0.00000	0.01735	0.07301	

Table 29. Accuracy Classification at Proficient Cut Point for Mathematics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.11179	0.02392	0.00001	0.00000	
Apprentice	0.04238	0.28282	0.05915	0.00000	89.49
Proficient	0.00002	0.04595	0.31709	0.02650	
Distinguished	0.00000	0.00000	0.01735	0.07301	

Table 30. Consistency Classification for Mathematics Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.10531	0.04297	0.00063	0.00000		
Apprentice	0.04829	0.24317	0.07902	0.00017	69.86	0.56
Proficient	0.00059	0.06638	0.28040	0.02959		
Distinguished	0.00000	0.00017	0.03356	0.06976		

Table 31. Accuracy Classification for Mathematics Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13513	0.03545	0.00001	0.00000	
Apprentice	0.04071	0.30970	0.04657	0.00000	79.27
Proficient	0.00001	0.04430	0.24927	0.02543	
Distinguished	0.00000	0.00000	0.01478	0.09862	

Table 32. Accuracy Classification at Proficient Cut Point for Mathematics Grade 7

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13513	0.03545	0.00001	0.00000	
Apprentice	0.04071	0.30970	0.04657	0.00000	90.91
Proficient	0.00001	0.04430	0.24927	0.02543	
Distinguished	0.00000	0.00000	0.01478	0.09862	

Table 33. Consistency Classification for Mathematics Grade 7

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12579	0.05731	0.00058	0.00000	70.87	0.59
Apprentice	0.04953	0.26609	0.06086	0.00011		
Proficient	0.00055	0.06596	0.22249	0.02960		
Distinguished	0.00000	0.00011	0.02670	0.09434		

Table 34. Accuracy Classification for Mathematics Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13152	0.03502	0.00004	0.00000	78.13
Apprentice	0.04641	0.25650	0.05473	0.00000	
Proficient	0.00004	0.03979	0.28732	0.02310	
Distinguished	0.00000	0.00000	0.01955	0.10597	

Table 35. Accuracy Classification at Proficient Cut Point for Mathematics Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.13152	0.03502	0.00004	0.00000	90.54
Apprentice	0.04641	0.25650	0.05473	0.00000	
Proficient	0.00004	0.03979	0.28732	0.02310	
Distinguished	0.00000	0.00000	0.01955	0.10597	

Table 36. Consistency Classification for Mathematics Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.12035	0.05506	0.00117	0.00000	69.44	0.57
Apprentice	0.05662	0.21696	0.07079	0.00013		
Proficient	0.00101	0.05916	0.25546	0.02736		
Distinguished	0.00000	0.00013	0.03422	0.10159		

Social Studies

Table 37. Accuracy Classification for Social Studies Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.07093	0.02036	0.00003	0.00000	
Apprentice	0.03070	0.22473	0.04957	0.00000	79.44
Proficient	0.00005	0.05039	0.38032	0.03352	
Distinguished	0.00000	0.00000	0.02093	0.11846	

Table 38. Accuracy Classification at Proficient Cut Point for Social Studies Grade 5

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.07093	0.02036	0.00003	0.00000	
Apprentice	0.03070	0.22473	0.04957	0.00000	90
Proficient	0.00005	0.05039	0.38032	0.03352	
Distinguished	0.00000	0.00000	0.02093	0.11846	

Table 39. Consistency Classification for Social Studies Grade 5

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.06696	0.03757	0.00105	0.00000		
Apprentice	0.03381	0.18961	0.06993	0.00006	71.15	0.57
Proficient	0.00092	0.06824	0.34194	0.03894		
Distinguished	0.00000	0.00006	0.03793	0.11298		

Table 40. Accuracy Classification for Social Studies Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.08088	0.01930	0.00001	0.00000	
Apprentice	0.02750	0.21787	0.04257	0.00000	80.57
Proficient	0.00002	0.04469	0.33561	0.03604	
Distinguished	0.00000	0.00000	0.02418	0.17133	

Table 41. Accuracy Classification at Proficient Cut Point for Social Studies Grade 8

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.08088	0.01930	0.00001	0.00000	
Apprentice	0.02750	0.21787	0.04257	0.00000	91.27
Proficient	0.00002	0.04469	0.33561	0.03604	
Distinguished	0.00000	0.00000	0.02418	0.17133	

Table 42. Consistency Classification for Social Studies Grade 8

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.07636	0.03422	0.00057	0.00000		
Apprentice	0.03151	0.18690	0.06072	0.00009	72.71	0.61
Proficient	0.00052	0.06065	0.30025	0.04366		
Distinguished	0.00000	0.00008	0.04083	0.16363		

**Language
Mechanics**

Table 43. Accuracy Classification for Language Mechanics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15458	0.05034	0.00463	0.00004	
Apprentice	0.05075	0.13229	0.07516	0.00382	66.73
Proficient	0.00276	0.04822	0.15042	0.04359	
Distinguished	0.00002	0.00250	0.05092	0.22999	

Table 44. Accuracy Classification at Proficient Cut Point for Language Mechanics Grade 4

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.15458	0.05034	0.00463	0.00004	
Apprentice	0.05075	0.13229	0.07516	0.00382	86.29
Proficient	0.00276	0.04822	0.15042	0.04359	
Distinguished	0.00002	0.00250	0.05092	0.22999	

Table 45. Consistency Classification for Language Mechanics Grade 4

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.13862	0.06662	0.01772	0.00086		
Apprentice	0.05757	0.09910	0.07672	0.01069	57.11	0.43
Proficient	0.01106	0.05541	0.11359	0.04612		
Distinguished	0.00085	0.01223	0.07308	0.21976		

Table 46. Accuracy Classification for Language Mechanics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.24516	0.05467	0.00469	0.00006	
Apprentice	0.05038	0.11837	0.06013	0.00463	69.44
Proficient	0.00304	0.04285	0.10926	0.04329	
Distinguished	0.00003	0.00269	0.03916	0.22159	

Table 47. Accuracy Classification at Proficient Cut Point for Language Mechanics Grade 6

True Score	Observed Score				Accuracy %
	Novice	Apprentice	Proficient	Distinguished	
Novice	0.24516	0.05467	0.00469	0.00006	
Apprentice	0.05038	0.11837	0.06013	0.00463	88.19
Proficient	0.00304	0.04285	0.10926	0.04329	
Distinguished	0.00003	0.00269	0.03916	0.22159	

Table 48. Consistency Classification for Language Mechanics Grade 6

First Form	Alternate Form				Consistency %	Kappa
	Novice	Apprentice	Proficient	Distinguished		
Novice	0.22454	0.06854	0.01590	0.00117		
Apprentice	0.06123	0.08882	0.05925	0.01182	60.71	0.47
Proficient	0.01176	0.04905	0.08214	0.04495		
Distinguished	0.00108	0.01217	0.05594	0.21164		

Appendix R. Principal Components Analysis—Scree Plots[15]
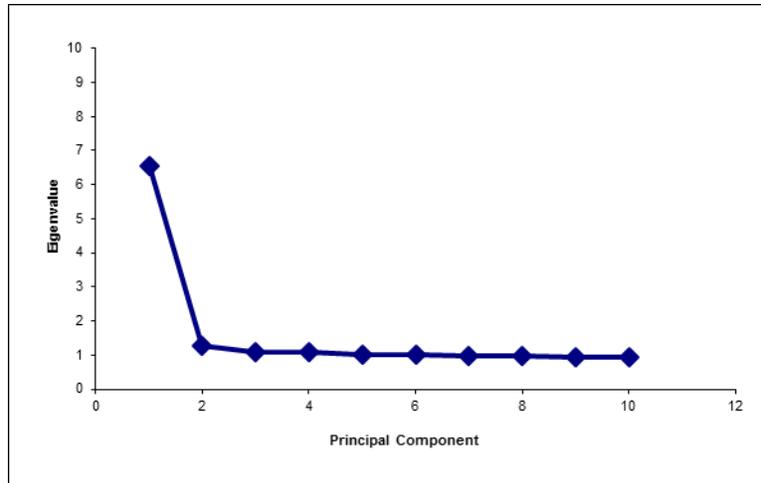
Figure 1. Reading Grade 3 Principal Components Scree Plot
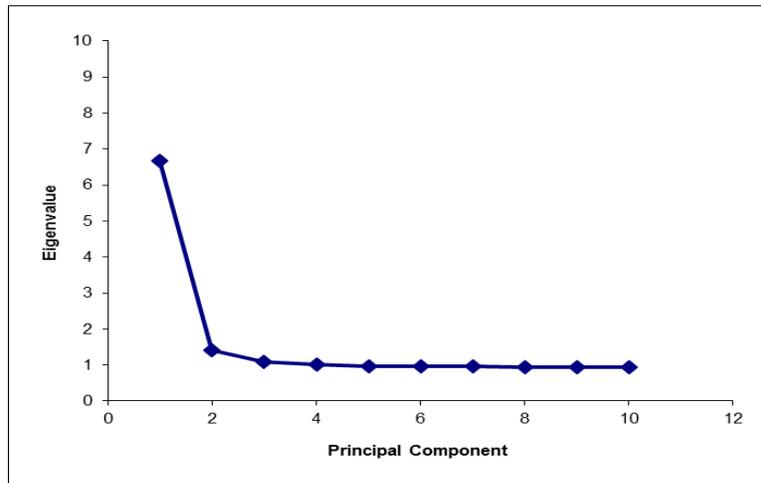
Figure 2. Reading Grade 4 Principal Components Scree Plot

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[15] The Alternate K-PREP assessment is not included.
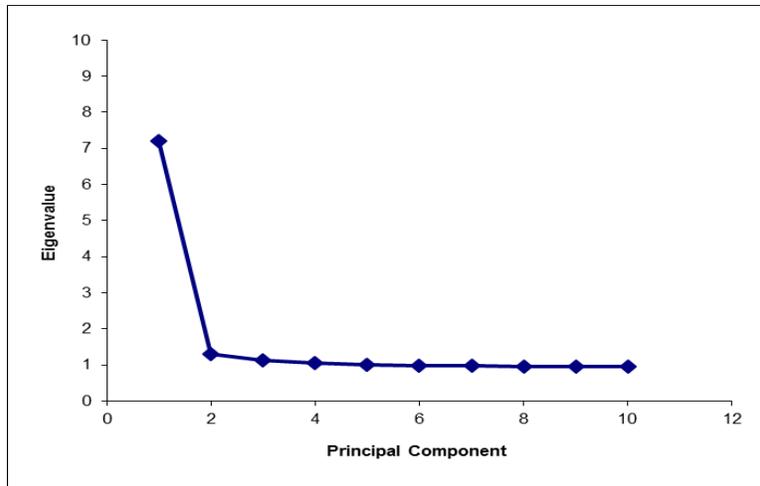
Figure 3. Reading Grade 5 Principal Components Scree Plot
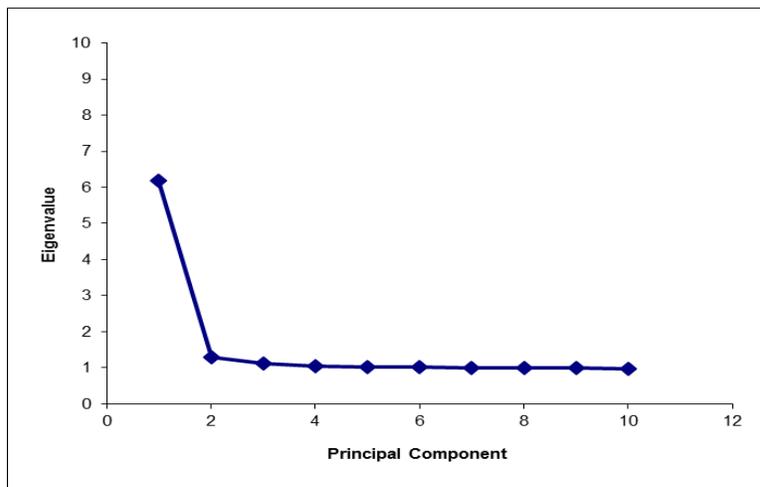
Figure 4. Reading Grade 6 Principal Components Scree Plot
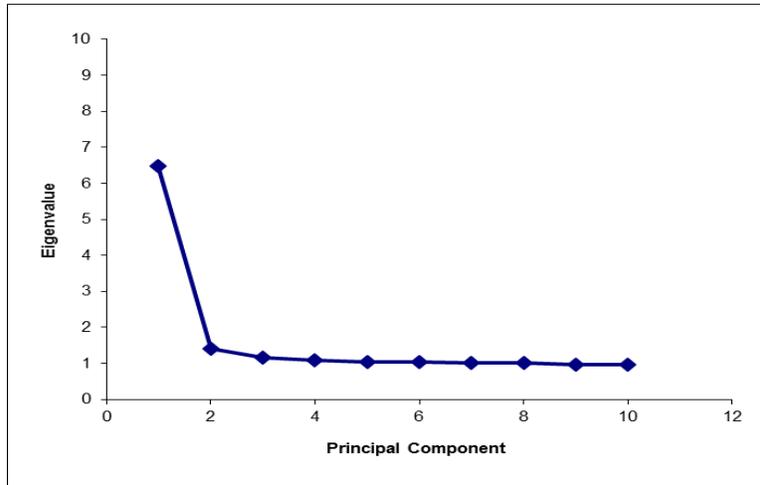
**Figure 5.** Reading Grade 7 Principal Components Scree Plot
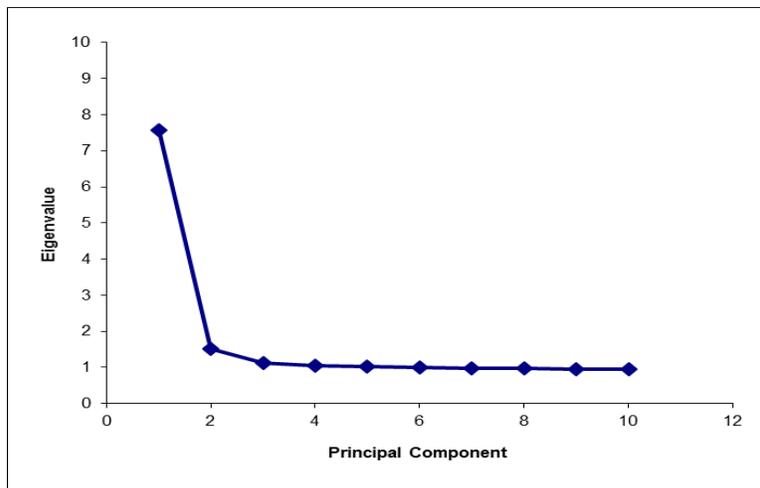
Figure 6. Reading Grade 8 Principal Components Scree Plot
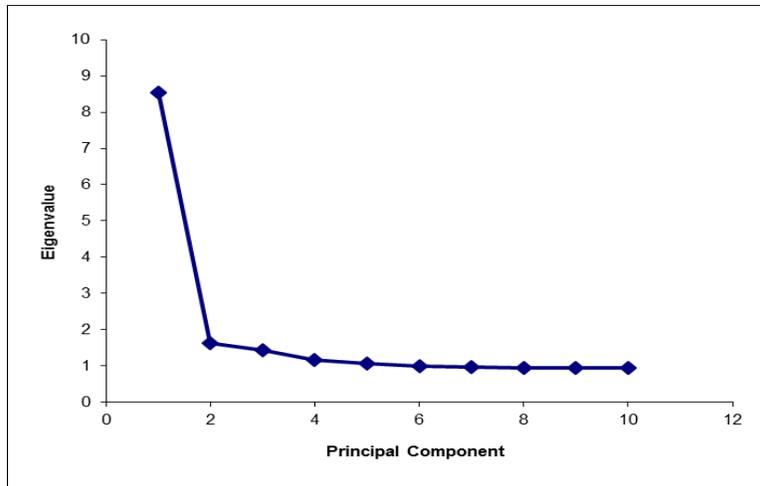
Figure 7. Mathematics Grade 3 Principal Components Scree Plot
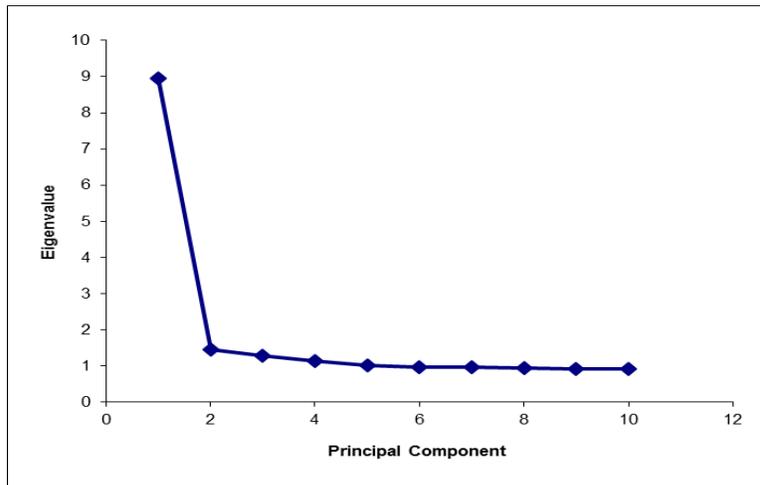
**Figure 8.** Mathematics Grade 4 Principal Components Scree Plot
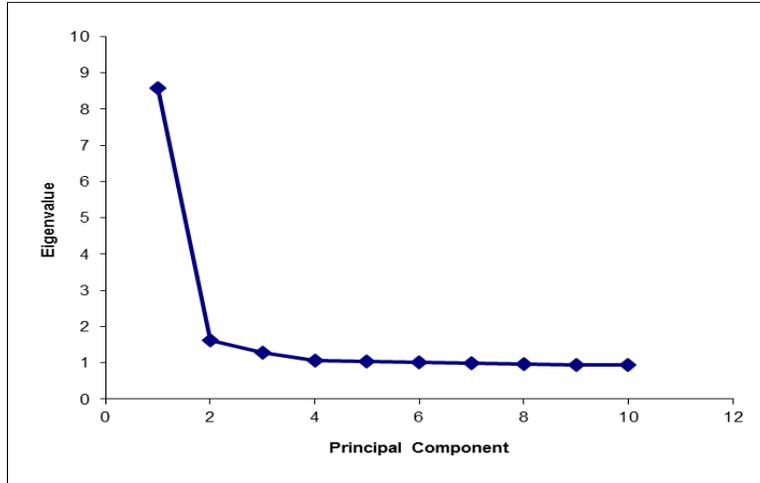
Figure 9. Mathematics Grade 5 Principal Components Scree Plot
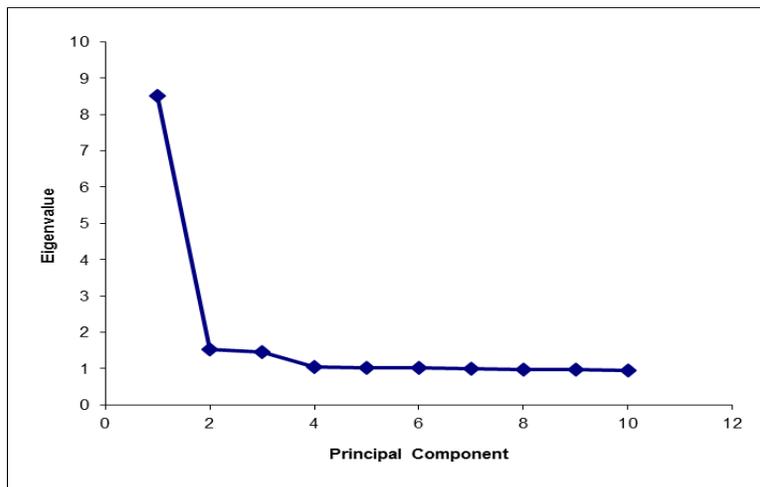
Figure 10. Mathematics Grade 6 Principal Components Scree Plot
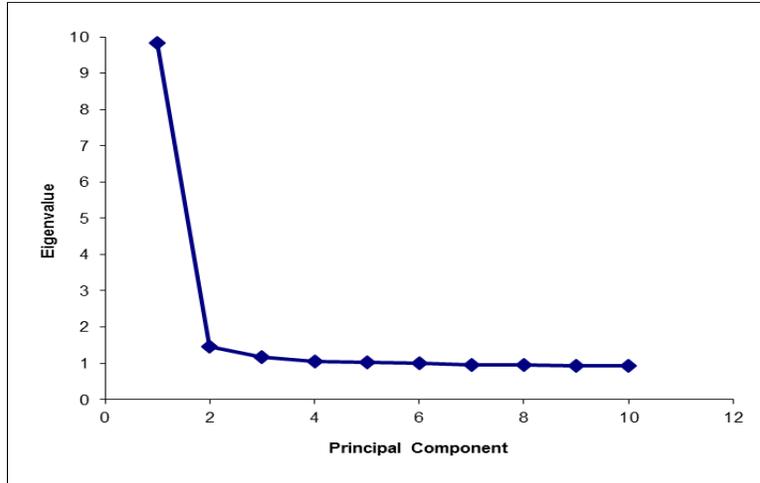
Figure 11. Mathematics Grade 7 Principal Components Scree Plot
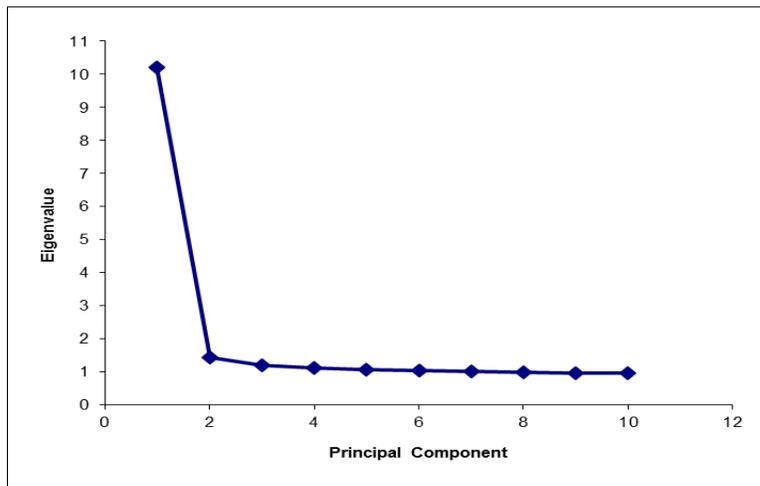
**Figure 12.** Mathematics Grade 8 Principal Components Scree Plot
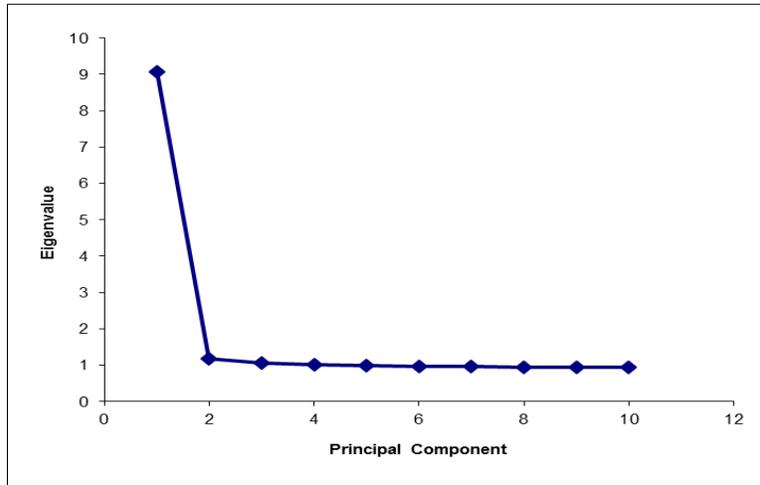
**Figure 13.** Social Studies Grade 5 Principal Components Scree Plot
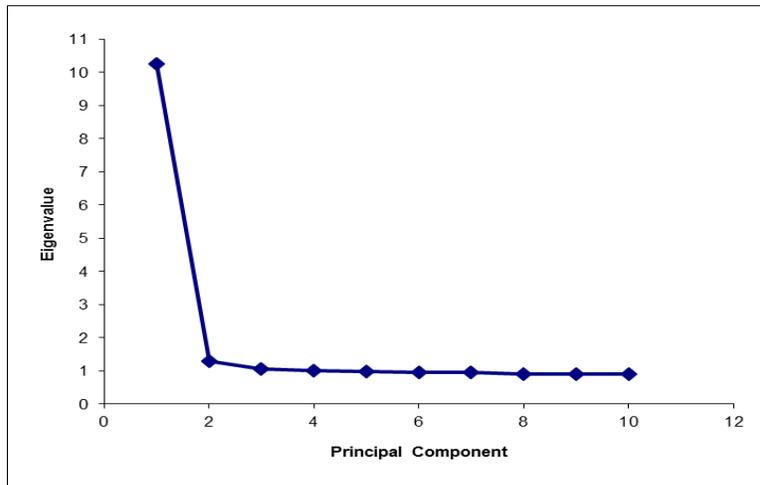
Figure 14. Social Studies Grade 8 Principal Components Scree Plot

Appendix S. Model Fit Indices for Confirmatory Factor Analysis

Subject	Grade	SRMR	RMSEA	RMSEA 90% Lower CL	RMSEA 90% Upper CL
Reading	3	0.0178	0.0207	0.0204	0.0209
	4	0.0190	0.0215	0.0212	0.0218
	5	0.0173	0.0205	0.0202	0.0208
	6	0.0149	0.0167	0.0165	0.0170
	7	0.0191	0.0218	0.0215	0.0220
	8	0.0187	0.0204	0.0202	0.0207
Mathematics	3	0.0255	0.0281	0.0279	0.0284
	4	0.0203	0.0228	0.0226	0.0230
	5	0.0224	0.0245	0.0243	0.0247
	6	0.0237	0.0264	0.0262	0.0267
	7	0.0196	0.0230	0.0228	0.0233
	8	0.0215	0.0264	0.0262	0.0266
Social Studies	5	0.0136	0.0164	0.0162	0.0167
	8	0.0171	0.0213	0.0210	0.0215

Appendix T. Correlations of Total Test and Subdomain Scores

Reading

Grade	Subdomain	Reading Total	Key Ideas	Craft and Structure	Integration of Ideas	Vocabulary and Acquisition
3	Total	1.00				
	Key Ideas	0.85	1.00			
	Craft and Structure	0.89	0.65	1.00		
	Integration of Ideas	0.78	0.53	0.59	1.00	
	Vocabulary and Acquisition	0.72	0.50	0.54	0.46	1.00
4	Total	1.00				
	Key Ideas	0.85	1.00			
	Craft and Structure	0.81	0.59	1.00		
	Integration of Ideas	0.86	0.63	0.59	1.00	
	Vocabulary and Acquisition	0.85	0.63	0.59	0.62	1.00
5	Total	1.00				
	Key Ideas	0.89	1.00			
	Craft and Structure	0.83	0.67	1.00		
	Integration of Ideas	0.86	0.68	0.62	1.00	
	Vocabulary and Acquisition	0.79	0.61	0.57	0.57	1.00
6	Total	1.00				
	Key Ideas	0.84	1.00			
	Craft and Structure	0.79	0.56	1.00		
	Integration of Ideas	0.86	0.62	0.56	1.00	
	Vocabulary and Acquisition	0.81	0.58	0.54	0.58	1.00
7	Total	1.00				
	Key Ideas	0.78	1.00			
	Craft and Structure	0.84	0.54	1.00		
	Integration of Ideas	0.86	0.55	0.62	1.00	
	Vocabulary and Acquisition	0.84	0.58	0.61	0.61	1.00
8	Total	1.00				
	Key Ideas	0.87	1.00			
	Craft and Structure	0.83	0.62	1.00		
	Integration of Ideas	0.82	0.59	0.60	1.00	
	Vocabulary and Acquisition	0.87	0.68	0.64	0.62	1.00

Mathematics (Grades 3-5)

Grade	Subdomain	Mathematics Total	Operations and Algebraic Thinking	Number and Operations in Base Ten	Number and Operations - Fractions	Measurement and Data Geometry
3	Mathematics Total	1.00				
	Operations and Algebraic Thinking	0.85	1.00			
	Number and Operations in Base Ten	0.80	0.61	1.00		
	Number and Operations - Fractions	0.87	0.67	0.58	1.00	
	Measurement and Data/Geometry	0.89	0.68	0.61	0.69	1.00
4	Mathematics Total	1.00				
	Operations and Algebraic Thinking	0.88	1.00			
	Number and Operations in Base Ten	0.87	0.70	1.00		
	Number and Operations - Fractions	0.86	0.67	0.67	1.00	
	Measurement and Data/Geometry	0.88	0.70	0.68	0.68	1.00
5	Mathematics Total	1.00				
	Operations and Algebraic Thinking	0.86	1.00			
	Number and Operations in Base Ten	0.86	0.66	1.00		
	Number and Operations - Fractions	0.86	0.65	0.66	1.00	
	Measurement and Data/Geometry	0.89	0.68	0.67	0.69	1.00

Mathematics (Grade 6 and 7)

Grade	Subdomain	Mathematics Total	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
6	Mathematics Total	1.00					
	Ratios and Proportional Relationships	0.85	1.00				
	The Number System	0.81	0.59	1.00			
	Expressions and Equations	0.87	0.68	0.65	1.00		
	Geometry	0.84	0.65	0.58	0.67	1.00	
	Statistics and Probability	0.66	0.47	0.41	0.47	0.49	1.00
7	Mathematics Total	1.00					
	Ratios and Proportional Relationships	0.90	1.00				
	The Number System	0.84	0.67	1.00			
	Expressions and Equations	0.84	0.70	0.63	1.00		
	Geometry	0.84	0.70	0.62	0.65	1.00	
	Statistics and Probability	0.82	0.68	0.59	0.64	0.64	1.00

Mathematics (Grade 8)

Grade	Subdomain	Mathematics Total	The Number System Expressions and Equations	Functions	Geometry	Statistics and Probability
8	Mathematics Total	1.00				
	The Number System/Expressions and Equations	0.89	1.00			
	Functions	0.89	0.72	1.00		
	Geometry	0.90	0.72	0.72	1.00	
	Statistics and Probability	0.85	0.67	0.70	0.69	1.00

Social Studies

Grade	Subdomain	Social Studies Total	Government and Civics	Cultures and Societies	Economics	Geography	Historical Perspective
5	Social Studies Total	1.00					
	Government and Civics	0.83	1.00				
	Cultures and Societies	0.82	0.61	1.00			
	Economics	0.84	0.64	0.65	1.00		
	Geography	0.83	0.60	0.60	0.63	1.00	
	Historical Perspective	0.89	0.67	0.66	0.68	0.65	1.00
8	Social Studies Total	1.00					
	Government and Civics	0.90	1.00				
	Cultures and Societies	0.83	0.69	1.00			
	Economics	0.86	0.72	0.66	1.00		
	Geography	0.83	0.68	0.62	0.67	1.00	
	Historical Perspective	0.89	0.76	0.67	0.70	0.67	1.00

Appendix U. Operational Constructed-Response Item Omit Rates

Reading

Grade	Item Type	Omit Rate
3	Short Answer	1%
	Short Answer	0%
4	Short Answer	1%
	Short Answer	0%
	Extended Response	1%
5	Short Answer	1%
	Short Answer	0%
	Extended Response	0%
6	Short Answer	1%
	Short Answer	0%
	Extended Response	1%
7	Short Answer	0%
	Short Answer	0%
	Extended Response	1%
8	Short Answer	0%
	Short Answer	0%
	Extended Response	1%

Mathematics

Grade	Item Type	Omit Rate
3	Short Answer	1%
	Short Answer	2%
	Short Answer	1%
4	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	1%
5	Short Answer	1%
	Short Answer	1%
	Short Answer	1%
	Extended Response	1%
6	Short Answer	0%
	Short Answer	1%
	Short Answer	1%
	Extended Response	1%
7	Short Answer	1%
	Short Answer	1%
	Short Answer	0%
	Extended Response	1%
8	Short Answer	1%
	Short Answer	1%
	Short Answer	0%
	Extended Response	1%

Social Studies

Grade	Item Type	Omit Rate
5	Extended Response	0%
	Extended Response	1%
	Extended Response	0%
8	Extended Response	0%
	Extended Response	2%
	Extended Response	1%