Math - Grade 5 English

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IQ Analysis | Investigating the Question	SE 5.1B	RC: 1
5.1B use place value to read, write, compare, and order decimals through the thousandths place	**Units:**	

5.1B	Analysis		
Q11 Alberto ran a race in 17.6 seconds. Jake ran the race in 18.307 seconds. Which race time is greater than 17.6 seconds but less than 18.307 seconds? **A** 17.054 s **B** 18.4 s **C** 17.39 s **D** 18.21 s *** Correct answer (D)**	**Type**	☐ Readiness ☒ Supporting	
	Data		
	Process Standard	5.14A	
	%	**Error Type**	
	A/F	☐Procedural	
	B/G	☐Application	
	C/H	☐Conceptual	
	***D/J**	☐Guessing	
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.2A	RC: 1
5.2A generate a fraction equivalent to a given fraction such as 1/2 and 3/6 or 4/12 and 1/3	**Units:**	

5.2A	**Analysis**		
Q17	**Type**	☒ Readiness ☐ Supporting	
	Data		
Kwan has a garden. If $\frac{7}{10}$ of the plants in his garden are daisies, which statement could be true?	**Process Standard**	5.14A	
		%	**Error Type**
A Out of a total of 7 plants, 1 plant is a daisy.	**A/F**		☐Procedural
B Out of a total of 50 plants, 7 plants are daisies.	**B/G**		☐Application
C Out of a total of 35 plants, 15 plants are daisies.	**C/H**		☐Conceptual
D Out of a total of 50 plants, 35 plants are daisies.	***D/J**		☐Guessing
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4
*** Correct answer (D)**			

5.2A	**Analysis**		
Q35	**Type**	☒ Readiness ☐ Supporting	
	Data		
Antonia colored 36 of the 60 pictures in her coloring book. Which fraction is **NOT** equivalent to the fraction of pictures Antonia colored?	**Process Standard**	5.14B	
		%	**Error Type**
A $\frac{6}{10}$	**A/F**		☐Procedural
B $\frac{3}{5}$	**B/G**		☐Application
C $\frac{8}{20}$	***C/H**		☐Conceptual
D $\frac{18}{30}$	**D/J**		☐Guessing
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4
*** Correct answer (C)**			

5.2A	Analysis		
Q49 Scott completed $\frac{4}{6}$ of a project on Saturday. Which fraction is equivalent to $\frac{4}{6}$? **A** $\frac{16}{24}$ **B** $\frac{8}{18}$ **C** $\frac{16}{18}$ **D** $\frac{20}{24}$ *** Correct answer (A)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.14A	
		%	**Error Type** ☐Procedural ☐Application ☐Conceptual ☐Guessing
	***A/F**		
	B/G		
	C/H		
	D/J		
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.2B	RC: 1

5.2B generate a mixed number equivalent to a given improper fraction or generate an improper fraction equivalent to a given mixed number

Units:

5.2B

Q6

Edna completed $4\frac{2}{3}$ puzzles. Which improper fraction is equivalent to the number of puzzles Edna completed?

F $\frac{9}{3}$

G $\frac{14}{3}$

H $\frac{10}{3}$

J $\frac{24}{3}$

*** Correct answer (G)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F		☐Procedural
B/G*		☐Application
C/H		☐Conceptual
D/J		☐Guessing
Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

IQ Analysis | Investigating the Question

SE 5.2C	RC: 1

5.2C compare two fractional quantities in problemsolving situations using a variety of methods, including common denominators

Units:

5.2C

Q9

Five people each bought a box of straws. In Aaron's box $\frac{6}{20}$ of the straws were green. The table below shows the fraction of green straws in the other four boxes.

Straws

Name	Fraction of Green Straws
Lance	$\frac{3}{10}$
Cindy	$\frac{10}{40}$
Eric	$\frac{3}{30}$
Fred	$\frac{7}{10}$

Based on the table, which two people had boxes in which less than $\frac{6}{20}$ of the straws were green?

A Lance and Fred

B Lance and Cindy

C Eric and Fred

D Cindy and Eric

*** Correct answer (D)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.14B	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
***D/J**		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.2C

Q19

Vince has $\frac{8}{12}$ of a tank of gasoline left in his car. Which fraction is greater than $\frac{8}{12}$?

A $\frac{5}{6}$

B $\frac{2}{3}$

C $\frac{8}{16}$

D $\frac{9}{24}$

*** Correct answer (A)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard		
	%	**Error Type**
***A/F**		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.2C

Q32

A teacher wrote several nouns, verbs, adjectives, and adverbs on the board. The table below shows the fraction of each type of word written on the board.

Words

Type of Word	Fraction of Words on Board
Noun	$\frac{3}{7}$
Verb	$\frac{3}{14}$
Adjective	$\frac{1}{14}$
Adverb	$\frac{2}{7}$

Which correctly compares two of these fractions?

F $\frac{1}{14} > \frac{3}{7}$

G $\frac{3}{7} > \frac{3}{14}$

H $\frac{3}{14} < \frac{1}{14}$

J $\frac{2}{7} < \frac{3}{14}$

*** Correct answer (G)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.15B	
	%	**Error Type**
A/F		☐ Procedural
B/G*		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.3A	RC: 1
5.3A use addition and subtraction to solve problems involving whole numbers and decimals	**Units:**	

5.3A	Analysis		
Q4	**Type**	☒ Readiness ☐ Supporting	
Owen lives 145.25 kilometers from Houston, Texas. Sharon lives 209.5 kilometers from Houston. What is the difference between these two distances?	**Data**		
F 64.25 km	**Process Standard**	5.14A	
G 54.35 km		**%**	**Error Type**
H 124.30 km	**A/F***		☐Procedural
J 144.35 km	**B/G**		☐Application
	C/H		☐Conceptual
	D/J		☐Guessing
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4
*** Correct answer (F)**			

5.3A	Analysis		
Q27	**Type**	☒ Readiness ☐ Supporting	
Alex used blue, red, and green pieces of plastic to make a design. • He used 84 green pieces of plastic. • He used 20 more green pieces of plastic than blue pieces of plastic. • He used 15 more red pieces of plastic than blue pieces of plastic. What is the number of red pieces of plastic Alex used?	**Data**		
A 79	**Process Standard**	5.14B	
B 89		**%**	**Error Type**
C 49	***A/F**		☐Procedural
D 119	**B/G**		☐Application
	C/H		☐Conceptual
	D/J		☐Guessing
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4
*** Correct answer (A)**			

5.3A	Analysis		
Q43 Lisa cut a rope that was 19.75 meters long into 3 pieces. The first piece of rope was 6.4 meters long, and the second piece of rope was 4.36 meters long. How long was the third piece of rope? **A** 10.76 m **B** 8.99 m **C** 30.51 m **D** 9.35 m *** Correct answer (B)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.14B	
	%	**Error Type**	
	A/F	☐ Procedural	
	***B/G**	☐ Application	
	C/H	☐ Conceptual	
	D/J	☐ Guessing	
	Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.3B	RC: 1
5.3B use multiplication to solve problems involving whole numbers (no more than three digits times two digits without technology)	**Units:**	

5.3B	Analysis		
Q15 Brennon has a total of 187 postage stamps. • He has 48 stamps that are each 14 millimeters wide. • He has 139 stamps that are each 12 millimeters wide. What is the total width of these stamps? **A** 2,618 mm **B** 2,230 mm **C** 2,340 mm **D** 657 mm *** Correct answer (C)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.14B	
	% **A/F** **B/G** ***C/H** **D/J**	**Error Type** ☐Procedural ☐Application ☐Conceptual ☐Guessing	
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.3B	Analysis		
Q24 There are four times as many cows as horses on a farm. There are twice as many horses as pigs on the farm. Which list shows the number of each type of animal on this farm? **F** 9 cows, 36 horses, and 18 pigs **G** 48 cows, 12 horses, and 24 pigs **H** 32 cows, 16 horses, and 8 pigs **J** 72 cows, 18 horses, and 9 pigs *** Correct answer (J)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.14C	
	% **A/F** **B/G** **C/H** **D/J***	**Error Type** ☐Procedural ☐Application ☐Conceptual ☐Guessing	
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.3B	Analysis		
Q47 On Monday 149 people each bought 1 CD at a music store. On Tuesday 263 people each bought 1 CD. All the CDs cost $9. What was the total amount paid for the CDs on these two days? **A** $3,608 **B** $1,341 **C** $2,367 **D** $3,708 *** Correct answer (D)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.14B	
	%	**Error Type**	
	A/F	☐ Procedural	
	B/G	☐ Application	
	C/H	☐ Conceptual	
	***D/J**	☐ Guessing	
	Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.3C	RC: 1
5.3C use division to solve problems involving whole numbers (no more than two-digit divisors and three-digit dividends without technology), including interpreting the remainder within a given context	**Units:**	

5.3C	Analysis		
Q13 A gardener has 785 bricks to build a path in a garden. There will be 24 bricks in each row of the path. How many complete rows can the gardener make using 785 bricks? **A** 32 **B** 17 **C** 33 **D** 65 *** Correct answer (A)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.14B	
		%	**Error Type**
	***A/F**		☐ Procedural ☐ Application ☐ Conceptual ☐ Guessing
	B/G		
	C/H		
	D/J		
	Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.3C	Analysis		
Q30 The numbers below all have something in common. 64 112 96 240 344 Which statement describes something these numbers have in common? **F** They are all divisible by 12. **G** They are all divisible by 16. **H** They are all divisible by 8. **J** They are all divisible by 6. *** Correct answer (H)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.16A	
		%	**Error Type**
	A/F		☐ Procedural ☐ Application ☐ Conceptual ☐ Guessing
	B/G		
	C/H*		
	D/J		
	Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.3C	Analysis		
Q37 Cathy is organizing the bottles of nail polish at a store. There are a total of 296 bottles. If Cathy puts the same number of bottles on each of 4 shelves, how many bottles will be on each shelf? Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value. *** Correct answer (74)**	**Type**	☒ Readiness ☐ Supporting	
	Data		
	Process Standard	5.14A	
	%	**Error Type**	
	A/F	☐ Procedural	
	B/G	☐ Application	
	C/H	☐ Conceptual	
	D/J	☐ Guessing	
	Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.4A	RC: 1

5.4A use strategies, including rounding and compatible numbers to estimate solutions to addition, subtraction, multiplication, and division problems

Units:

5.4A

Q45

Anna pays $618 for six months of music lessons. She pays the same amount for lessons each month. Which of the following is the best estimate of the amount Anna pays each month?

A $100

B $150

C $125

D $200

*** Correct answer (A)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.14B	
	%	**Error Type**
***A/F**		☐Procedural
B/G		☐Application
C/H		☐Conceptual
D/J		☐Guessing
Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

IQ Analysis | Investigating the Question

SE 5.5A	RC: 2

5.5A describe the relationship between sets of data in graphic organizers such as lists, tables, charts, and diagrams

Units:

5.5A

Q3

The table below shows the total number of juice bottles in different numbers of boxes.

Juice Bottles

Total Number of Juice Bottles	Number of Boxes
54	3
90	5
108	6
162	9

Which statement describes the relationship between the total number of juice bottles and the number of boxes?

A The total number of juice bottles plus 36 equals the number of boxes.

B The total number of juice bottles divided by 18 equals the number of boxes.

C The total number of juice bottles times 3 equals the number of boxes.

D The total number of juice bottles minus 51 equals the number of boxes.

*** Correct answer (B)**

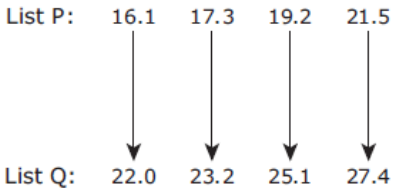
Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.16A	
	%	**Error Type**
A/F		☐ Procedural
***B/G**		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.5A

Q22

Two lists of numbers are shown below.



Which statement about these lists of numbers is true?

F Each number in List P is 6.1 less than the number below it in List Q.

G Each number in List P is 5.9 more than the number below it in List Q.

H Each number in List P is 5.9 less than the number below it in List Q.

J Each number in List P is 6.1 more than the number below it in List Q.

*** Correct answer (H)**

Analysis

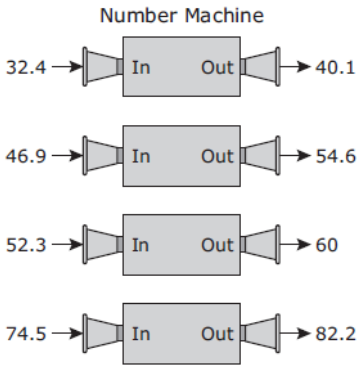
Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.16A	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H*		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

5.5A

Q34

Rachelle used a number machine. When she put a number into the machine, a different number came out according to a rule. Some examples are shown below.



The number that came out of the machine is —

F 8.3 less than the number she put into the machine

G 7.7 less than the number she put into the machine

H 8.3 more than the number she put into the machine

J 7.7 more than the number she put into the machine

*** Correct answer (J)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.16A	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
D/J*		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.5A

Q48

The table below shows the total number of nails in different numbers of boxes.

Boxes of Nails

Total Number of Nails	480	960	1,440	1,920
Number of Boxes	3	6	9	12

Which statement describes the relationship between the total number of nails and the number of boxes?

F The total number of nails is the number of boxes plus 480.

G The total number of nails is the number of boxes times 2.

H The total number of nails is the number of boxes times 160.

J The total number of nails is the number of boxes plus 3.

*** Correct answer (H)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.16A	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H*		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.5B	RC: 2

5.5B identify prime and composite numbers using concrete objects, pictorial models, and patterns in factor pairs

Units:

5.5B

Q42

Luke made the list of numbers below.

40	41	42	43	44	45	46	47	48	49

How many of the numbers in Luke's list are prime numbers?

F 3

G 7

H 10

J 5

*** Correct answer (F)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.14B	
	%	**Error Type**
A/F*		☐Procedural
B/G		☐Application
C/H		☐Conceptual
D/J		☐Guessing
Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.6A	RC: 2

5.6A select from and use diagrams and equations such as y = 5 + 3 to represent meaningful problem situations.

Units:

5.6A

Q14

A mechanic repaired 28 cars and 46 trucks last month. He spent 2 hours repairing each of these vehicles. Which equation can be used to find h, the total number of hours the mechanic spent repairing these vehicles?

F $h = (28 + 46) \div 2$

G $h = (28 + 46) + 2$

H $h = (28 + 46) \times 2$

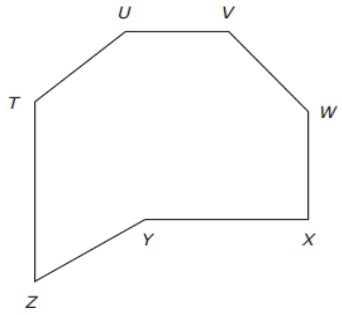
J $h = (28 + 46) - 2$

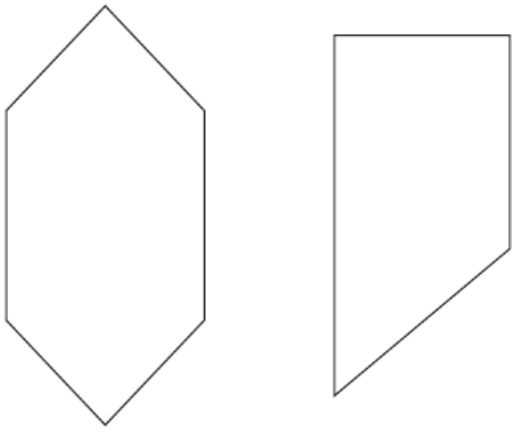
*** Correct answer (H)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.15B	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H*		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.7A	RC: 3
5.7A identify essential attributes including parallel, perpendicular, and congruent parts of two- and threedimensional geometric figures	**Units:**	

5.7A	Analysis		
Q23 Lakin drew the figure below.  Which line segments intersect each other but do not appear to be perpendicular? **A** $\overline{UV}$ and $\overline{VW}$ **B** $\overline{WX}$ and $\overline{TZ}$ **C** $\overline{WX}$ and $\overline{XY}$ **D** $\overline{UV}$ and $\overline{XY}$ *** Correct answer (A)**	**Type**	☐ Readiness ☒ Supporting	
	Data		
	Process Standard	5.14D	
	% ***A/F** **B/G** **C/H** **D/J**	**Error Type** ☐Procedural ☐Application ☐Conceptual ☐Guessing	
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.7A	Analysis		
Q38 Two figures are shown below.  Which statement about these two figures appears to be true? **F** There are a total of 5 acute angles. **G** There are a total of 5 obtuse angles. **H** There are a total of 2 acute angles. **J** There are a total of 2 obtuse angles. *** Correct answer (G)**	**Type**	☐ Readiness ☒ Supporting	
	Data		
	Process Standard	5.14D	
	% **A/F** **B/G*** **C/H** **D/J**	**Error Type** ☐Procedural ☐Application ☐Conceptual ☐Guessing	
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.8A	RC: 3

5.8A sketch the results of translations, rotations, and reflections on a Quadrant I coordinate grid

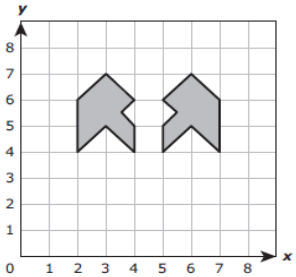
Units:

5.8A

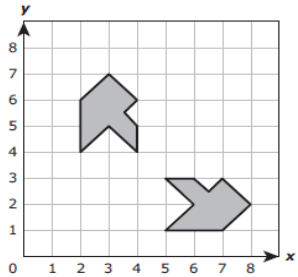
Q1

Which coordinate grid shows only a translation?

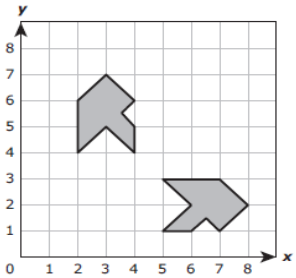
A



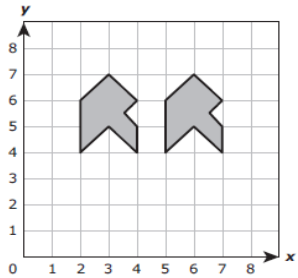
C



B



D



*** Correct answer (D)**

Analysis

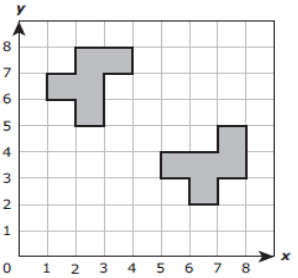
Type	☒ Readiness ☐ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
***D/J**		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.8A

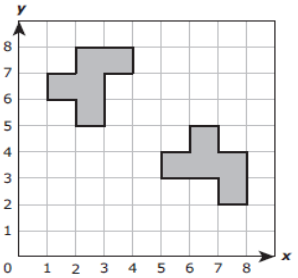
Q40

Which coordinate grid shows only a rotation?

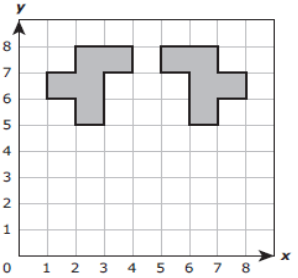
F



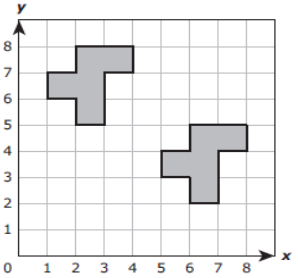
H



G



J



*** Correct answer (H)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H*		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

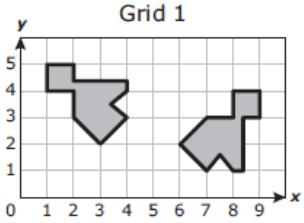
IQ Analysis | Investigating the Question	SE 5.8B	RC: 3
5.8B identify the transformation that generates one figure from the other when given two congruent figures on a Quadrant I coordinate grid	**Units:**	

5.8B

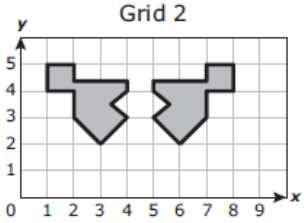
Q20

Each coordinate grid below shows a single transformation.

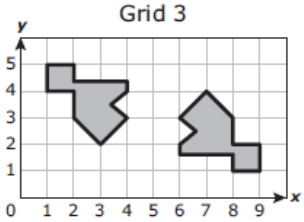
Grid 1



Grid 2



Grid 3



Which list describes the transformations in grids 1, 2, and 3 in order?

F Translation, reflection, rotation

G Rotation, reflection, rotation

H Reflection, translation, rotation

J Rotation, reflection, reflection

*** Correct answer (G)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F		☐ Procedural
B/G*		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

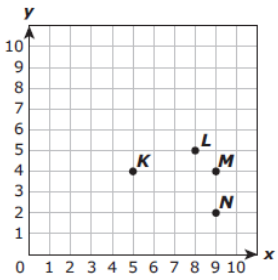
Source: Texas Education Agency STAAR™ Released Test Questions

IQ Analysis | Investigating the Question	SE 5.9A	RC: 3
5.9A locate and name points on a coordinate grid using ordered pairs of whole numbers	**Units:**	

5.9A

Q5

Billy will place point *W* at the coordinates (7, 6) on the coordinate grid below.



Billy will then circle the point that is 2 units right and 2 units down from (7, 6). Which point will Billy circle?

A Point *K*

B Point *L*

C Point *M*

D Point *N*

*** Correct answer (C)**

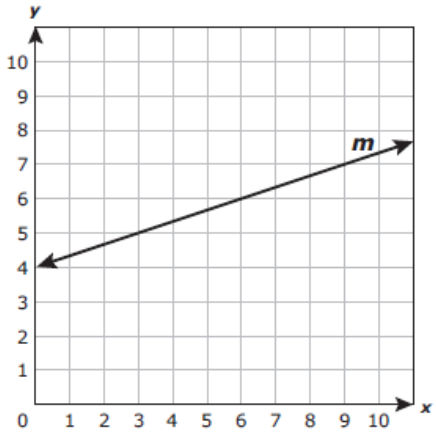
Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.14D	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
***C/H**		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.9A

Q26

Line *m* is shown on the coordinate grid below.



Which ordered pair represents a point that is located below line *m*?

F (3, 5)

G (10, 6)

H (2, 8)

J (4, 10)

*** Correct answer (G)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.14D	
	%	**Error Type**
A/F		☐ Procedural
B/G*		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

IQ Analysis | Investigating the Question	SE 5.10A	RC: 4
5.10A perform simple conversions within the same measurement system (SI (metric) or customary)	**Units:**	

5.10A	Analysis		
Q8 A coffeemaker at a restaurant can brew 42 cups. How many pints can this coffeemaker brew? **F** 84 pints **G** 21 pints **H** 336 pints **J** 420 pints *** Correct answer (G)**	**Type**	☐ Readiness ☒ Supporting	
	Data		
	Process Standard	5.14A	
	%	**Error Type**	
	A/F	☐Procedural	
	B/G*	☐Application	
	C/H	☐Conceptual	
	D/J	☐Guessing	
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

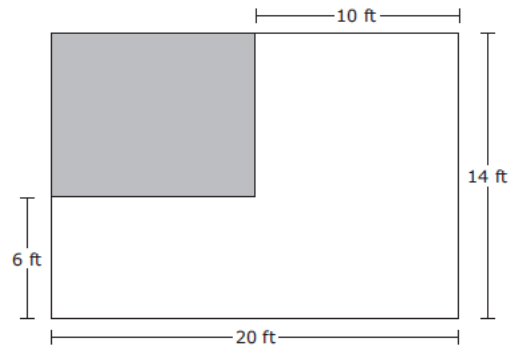
5.10A	Analysis		
Q28 Oneesha swims a total of 13 kilometers each week. What is the total number of meters Oneesha swims in 3 weeks? **F** 39 m **G** 13,000 m **H** 3,900 m **J** 39,000 m *** Correct answer (J)**	**Type**	☐ Readiness ☒ Supporting	
	Data		
	Process Standard	5.14B	
	%	**Error Type**	
	A/F	☐Procedural	
	B/G	☐Application	
	C/H	☐Conceptual	
	D/J*	☐Guessing	
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.10C	RC: 4
5.10C select and use appropriate units and formulas to measure length, perimeter, area, and volume	**Units:**	

5.10C

Q16

Harman is painting a rectangular wall. He has already painted the rectangular shaded section, as shown below.



What is the area of the shaded section Harman has already painted?

F 80 square feet

G 140 square feet

H 56 square feet

J 280 square feet

*** Correct answer (F)**

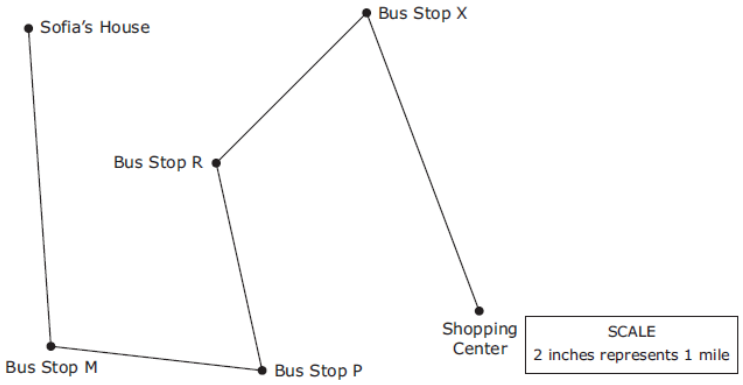
Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F*		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.10C

Q21

21 The diagram below models the bus route Sofia takes to get from her house to a shopping center. Use the ruler provided to measure Sofia's route to the nearest inch.



If 2 inches in the drawing represents 1 mile, which distance is closest to the length of the actual bus route Sofia takes to get from her house to the shopping center?

A 24 mi

B 6 mi

C 5 mi

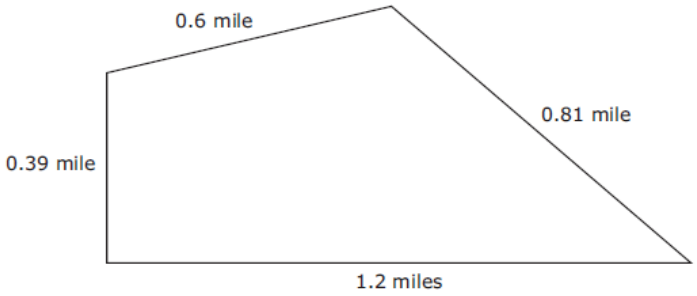
D 12 mi

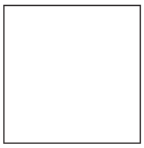
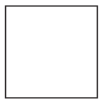
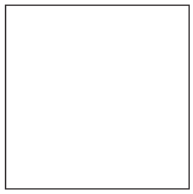
*** Correct answer (B)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.14D	
	%	**Error Type**
A/F		☐ Procedural
***B/G**		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

5.10C	Analysis		
Q33	**Type**	☒ Readiness ☐ Supporting	
The side lengths of a field are shown below.  What is the perimeter of the field? **A** 1.41 mi **B** 3.18 mi **C** 3 mi **D** 2 mi	**Data**		
	Process Standard		
		%	**Error Type**
	A/F		☐Procedural
	B/G		☐Application
	***C/H**		☐Conceptual
	D/J		☐Guessing
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4
*** Correct answer (C)**			

5.10C	Analysis		
Q46	**Type**	☒ Readiness ☐ Supporting	
Wesley has a cube with a volume of 8 cubic centimeters. Use the ruler provided to measure the dimensions of each square below to the nearest centimeter. Which square is congruent to a face of Wesley's cube? **F**  **H**  **G**  **J** 	**Data**		
	Process Standard	5.14D	
		%	**Error Type**
	A/F		☐Procedural
	B/G		☐Application
	C/H*		☐Conceptual
	D/J		☐Guessing
	Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
	Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4
*** Correct answer (H)**			

IQ Analysis | Investigating the Question

SE 5.11A	RC: 4

5.11A solve problems involving changes in temperature

Units:

5.11A

Q12

Gavin started hiking at 8:00 A.M. when the temperature was 64°F.

- The temperature rose 17°F by noon.
- The temperature then fell 25°F by the time Gavin finished hiking.

What was the temperature when Gavin finished hiking?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

*** Correct answer (56)**

Analysis

Type		☐ Readiness ☒ Supporting
Data		
Process Standard		5.14B
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned		☐ Similar to examples (taught) ☐ Requires application (learned)
Question Level (Depth of Knowledge)		☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.11B	RC: 4
5.11B solve problems involving elapsed time	**Units:**	

5.11B

Q39

39 The sign below shows the starting time of a music concert.

Evander plans to leave his house 1 hour 40 minutes before the concert starts. At what time should Evander leave his house?

A 5:45 P.M.

B 6:45 P.M.

C 5:35 P.M.

D 9:05 P.M.

*** Correct answer (A)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.14A	
	%	**Error Type**
***A/F**		☐Procedural
B/G		☐Application
C/H		☐Conceptual
D/J		☐Guessing
Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

IQ Analysis | Investigating the Question

SE 5.12A	RC: 5

5.12A use fractions to describe the results of an experiment

Units:

5.12A

Q31

Nancy has a bag that contains the following shapes.

- 12 hexagons
- 7 pentagons
- 20 octagons
- 16 parallelograms
- 5 trapezoids

She will randomly select one shape from this bag. What is the probability that the shape Nancy selects will have 5 or more sides?

A $\frac{39}{60}$

B $\frac{1}{7}$

C $\frac{32}{60}$

D $\frac{1}{5}$

*** Correct answer (A)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.14B	
	%	**Error Type**
***A/F**		☐Procedural
B/G		☐Application
C/H		☐Conceptual
D/J		☐Guessing
Taught v. learned	☐Similar to examples (taught) ☐Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.12B	RC: 5

5.12B use experimental results to make predictions

Units:

5.12B

Q10

Sakina spun the arrow on a spinner 80 times. The table below shows the number of times the arrow landed on each of the six colored sections.

Spinner Colors

Color	Number of Times
Red	12
Blue	18
Green	30
Yellow	10
Pink	4
Orange	6

Based on the information in the table, which statement about the next spin is **NOT** true?

F The arrow is less likely to land on a pink section than on a red section.

G The arrow is 3 times as likely to land on a green section as on a yellow section.

H The arrow is more likely to land on an orange section than on a blue section.

J The arrow is 2 times as likely to land on a red section as on an orange section.

*** Correct answer (H)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.16B	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H*		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.12B

Q29

A machine gives out a random sticker each time a person puts in money. The table below shows the number of stickers of each type that were given out in 36 times.

Stickers

Type	Number Given Out
Robot	12
Superhero	8
Car	6
Airplane	4
Sports	6

Based on the information in the table, which statement about the next sticker to come out of the machine is true?

A It is 3 times as likely to be a robot sticker as an airplane sticker.

B It is certain to be a sports sticker.

C It is 2 times as likely to be a car sticker as an airplane sticker.

D It is certain to be a robot sticker.

*** Correct answer (A)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.16B	
	%	**Error Type**
***A/F**		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.12B

Q36

The table below shows the number of votes for different school mascots.

Votes for Mascots

Mascot	Tiger	Eagle	Bobcat	Duck
Number of Votes	18	24	3	30

Based on the information in the table, what is the most reasonable prediction of the number of votes for eagle out of the next 25 votes?

F 72

G 8

H 1

J 21

*** Correct answer (G)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.14A	
	%	**Error Type**
A/F		☐ Procedural
B/G*		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question	SE 5.12C	RC: 5
5.12C list all possible outcomes of a probability experiment such as tossing a coin	**Units:**	

5.12C

Q7

The places Teresa can choose to go on Friday or Saturday are listed below. She can go to 1 place each day.

- Concert
- Movie
- Park
- Gym

Which list shows all the possible outcomes of 1 place and 1 day?

A Concert, Friday
Movie, Friday
Park, Saturday
Gym, Saturday

B Concert, Friday
Concert, Saturday
Concert, Movie
Movie, Saturday
Park, Friday
Park, Saturday
Gym, Park
Gym, Saturday

C Concert, Friday
Gym, Saturday

D Concert, Friday
Concert, Saturday
Movie, Friday
Movie, Saturday
Park, Friday
Park, Saturday
Gym, Friday
Gym, Saturday

*** Correct answer (D)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.14C	
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
***D/J**		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.13A	RC: 5

5.13A use tables of related number pairs to make line graphs

Units:

5.13A

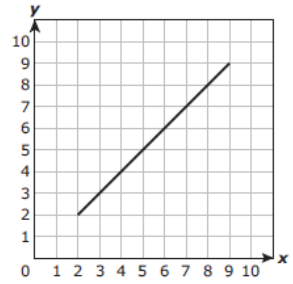
Q50

Isaiah recorded the coordinates of four points in the table below.

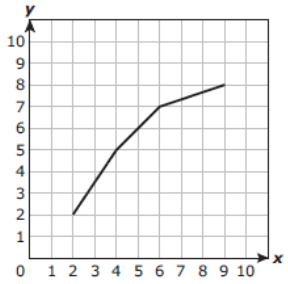
x	y
2	2
4	5
6	7
9	8

Which line graph represents the data in the table?

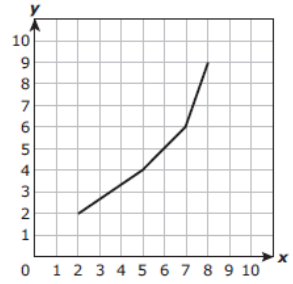
F



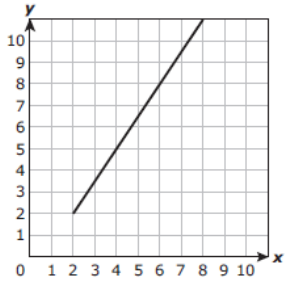
H



G



J



*** Correct answer (H)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H*		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.13B	RC: 5

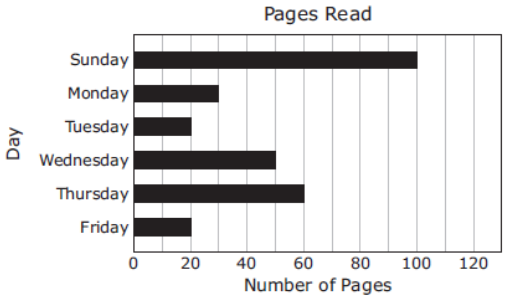
5.13B describe characteristics of data presented in tables and graphs including median, mode, and range

Units:

5.13B

Q18

The graph below shows the number of pages Joaquín read each day for six days last week.



What is the median number of pages in this set of data?

F 35

G 40

H 20

J 80

*** Correct answer (G)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.14D	
	%	**Error Type**
A/F		☐ Procedural
B/G*		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.13B

Q25

The table below shows the grades Rene earned on some reading assignments.

Grades on Reading Assignments

Assignment Number	1	2	3	4	5	6	7	8	9	10	11	12
Grade	78	92	85	80	92	100	79	88	92	100	95	89

What is the range of these grades?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

*** Correct answer (22)**

Analysis

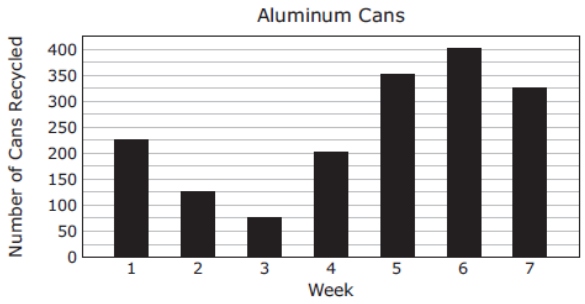
Type	☒ Readiness ☐ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions

5.13B

Q41

Wade's class is recycling aluminum cans. The graph below shows the number of cans his class recycled each week for 7 weeks.



What is the range of the number of cans recycled?

A 100

B 325

C 225

D 200

*** Correct answer (B)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard	5.14D	
	%	**Error Type**
A/F		☐ Procedural
***B/G**		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

5.13B

Q44

The table below shows the number of customers at a coffee shop each hour for nine hours.

Coffee Shop Customers

Hour	1	2	3	4	5	6	7	8	9
Number of Customers	15	28	42	58	36	62	28	45	50

Which statement about the data for the number of customers is true?

F The mode is 35.

G The mode is 47.

H The mode is 28.

J The mode is 42.

*** Correct answer (H)**

Analysis

Type	☒ Readiness ☐ Supporting	
Data		
Process Standard		
	%	**Error Type**
A/F		☐ Procedural
B/G		☐ Application
C/H*		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

IQ Analysis | Investigating the Question

SE 5.13C	RC: 5

5.13C graph a given set of data using an appropriate graphical representation such as a picture or line graph.

Units:

5.13C

Q2

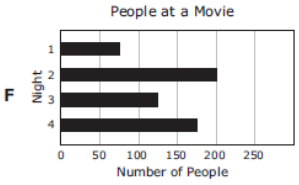
The table below shows the number of people who went to a movie each night on four nights.

People at a Movie

Night	1	2	3	4
Number of People	75	200	125	175

Which graph represents the data in the table?

F



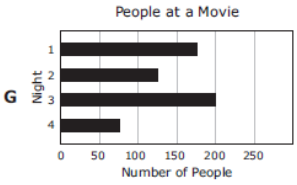
H

People at a Movie

Night 1	👤👤👤
Night 2	👤👤👤👤
Night 3	👤👤👤👤👤
Night 4	👤👤👤👤👤👤👤👤

Each 👤 represents 25 people.

G



J

People at a Movie

Night 1	👤½
Night 2	👤👤👤👤
Night 3	👤👤👤
Night 4	👤👤½

Each 👤 represents 50 people.

*** Correct answer (F)**

Analysis

Type	☐ Readiness ☒ Supporting	
Data		
Process Standard	5.15A	
	%	**Error Type**
A/F*		☐ Procedural
B/G		☐ Application
C/H		☐ Conceptual
D/J		☐ Guessing
Taught v. learned	☐ Similar to examples (taught) ☐ Requires application (learned)	
Question Level (Depth of Knowledge)	☐ Level 1 ☐ Level 2	☐ Level 3 ☐ Level 4

Source: Texas Education Agency STAAR™ Released Test Questions