

Student Answer Document *STAAR Practice Test, Form A*

Sample A

(A) (B) (C) (D)

Sample B
Use grid **BELOW**.

- 1 (A) (B) (C) (D)
- 2 (F) (G) (H) (J)
- 3 (A) (B) (C) (D)
- 4 (F) (G) (H) (J)
- 5 (A) (B) (C) (D)

Item 6
Use grid **BELOW**.

- 7 (A) (B) (C) (D)
- 8 (F) (G) (H) (J)
- 9 (A) (B) (C) (D)
- 10 (F) (G) (H) (J)

11 (A) (B) (C) (D)

12 (F) (G) (H) (J)

13 (A) (B) (C) (D)

14 (F) (G) (H) (J)

15 (A) (B) (C) (D)

16 (F) (G) (H) (J)

17 (A) (B) (C) (D)

18 (F) (G) (H) (J)

19 (A) (B) (C) (D)

20 (F) (G) (H) (J)

Item 21
Use grid **BELOW**.

22 (F) (G) (H) (J)

23 (A) (B) (C) (D)

24 (F) (G) (H) (J)

25 (A) (B) (C) (D)

26 (F) (G) (H) (J)

27 (A) (B) (C) (D)

28 (F) (G) (H) (J)

29 (A) (B) (C) (D)

30 (F) (G) (H) (J)

31 (A) (B) (C) (D)

32 (F) (G) (H) (J)

33 (A) (B) (C) (D)

34 (F) (G) (H) (J)

35 (A) (B) (C) (D)

36 (F) (G) (H) (J)

37 (A) (B) (C) (D)

38 (F) (G) (H) (J)

39 (A) (B) (C) (D)

40 (F) (G) (H) (J)

Item 41
Use grid **BELOW**.

42 (F) (G) (H) (J)

43 (A) (B) (C) (D)

44 (F) (G) (H) (J)

45 (A) (B) (C) (D)

46 (F) (G) (H) (J)

47 (A) (B) (C) (D)

48 (F) (G) (H) (J)

49 (A) (B) (C) (D)

50 (F) (G) (H) (J)

Sample B

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

21

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

6

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

41

			.
0	0	0	
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

STAAR Grade 5 Mathematics Reference Materials

LENGTH

Customary

1 mile (mi) = 1,760 yards (yd)
 1 yard (yd) = 3 feet (ft)
 1 foot (ft) = 12 inches (in.)

Metric

1 kilometer (km) = 1,000 meters (m)
 1 meter (m) = 100 centimeters (cm)
 1 centimeter (cm) = 10 millimeters (mm)

VOLUME AND CAPACITY

Customary

1 gallon (gal) = 4 quarts (qt)
 1 quart (qt) = 2 pints (pt)
 1 pint (pt) = 2 cups (c)
 1 cup (c) = 8 fluid ounces (fl oz)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 ton (T) = 2,000 pounds (lb)
 1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)
 1 gram (g) = 1,000 milligrams (mg)

TIME

1 year = 12 months
 1 year = 52 weeks
 1 week = 7 days
 1 day = 24 hours
 1 hour = 60 minutes
 1 minute = 60 seconds

PERIMETER

Square $P = 4 \times s$
 Rectangle $P = (2 \times l) + (2 \times w)$

AREA

Square $A = s \times s$
 Rectangle $A = l \times w$

VOLUME

Cube $V = s \times s \times s$
 Rectangular prism $V = l \times w \times h$

NOTE TO TEACHER In order to produce rulers that are consistent with the rulers printed on the state-supplied mathematics reference materials, follow these steps:

1. Set the print menu to print the pages at 100% by selecting "None" under the Page Scaling option.
2. Print on paper that is wider than $8\frac{1}{2}$ inches, such as 11 by 17 inch paper.
3. Trim the paper to $8\frac{1}{2}$ by 11 inches so that the rulers will be on the edge of the paper.

STAAR Practice Test, Form A

DIRECTIONS

Read each question. Then fill in the correct answer on your answer document.

SAMPLE A

Compare the numbers.

$$375 \bigcirc 573$$

A <

B >

C =

D +

SAMPLE B

Add.

$$92 + 58 = \square$$

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



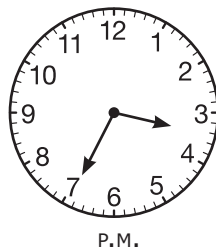
1 The table below lists the 2006 population estimates of five states.

2006 U.S. State Population Estimates		
State	Population	Change from 2000
Texas	23,507,783	+ 2,655,993
California	36,457,549	+ 2,585,896
New Mexico	1,954,599	+ 135,553
New York	19,306,183	+ 329,362
Florida	18,089,888	+ 2,107,064

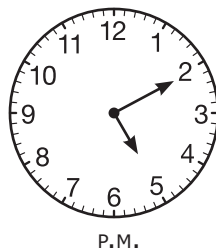
Which of the following lists the states by population in order from least to greatest?

- A New Mexico, New York, Florida, California, Texas
- B New Mexico, Florida, New York, Texas, California
- C Florida, New York, New Mexico, Texas, California
- D California, Texas, New York, Florida, New Mexico

2 When Raul began his homework, the clock showed the time below.



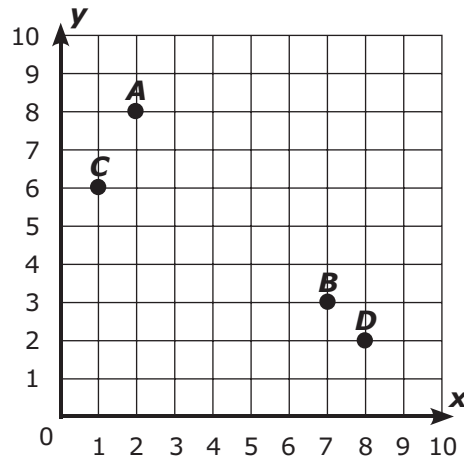
When he finished his homework, the clock showed the time below.



How much time did it take Raul to finish his homework?

- F 1 hr 35 min
- G 1 hr 45 min
- H 2 hr 25 min
- J 2 hr 35 min

3 Look at the graph below.



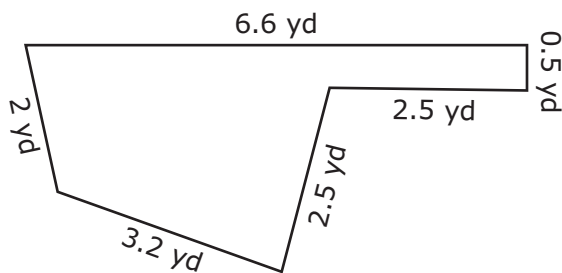
Which point is located at (8, 2)?

- A Point A
- B Point B
- C Point C
- D Point D

4 Last week, $\frac{3}{5}$ of the computers sold at Connie's Computers were laptops. Which of the following fractions is equivalent to $\frac{3}{5}$?

- F $\frac{30}{45}$
- G $\frac{21}{35}$
- F $\frac{18}{40}$
- J $\frac{13}{15}$

5 Look at the figure below.



What is the perimeter of the figure?

- A 18.2 yd
- B 17.5 yd
- C 17.3 yd
- D 18.3 yd

6 The chart below gives the math test scores for Ms. Truong’s fifth-grade class.

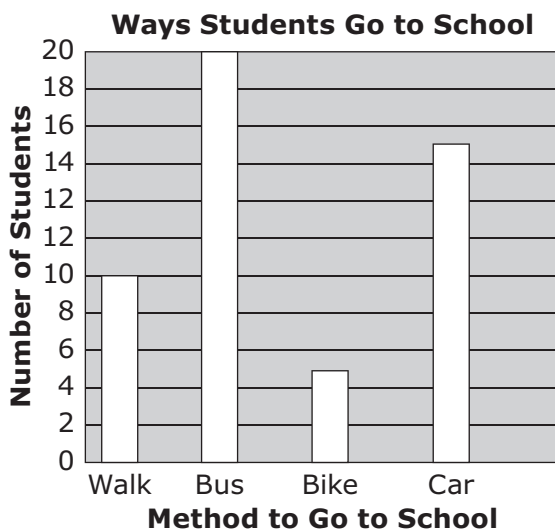
Test Scores				
98	74	61	76	84
86	99	77	85	88
93	92	87	77	72

What is the range of the set?

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

- 9 Harrison hiked along a trail that is 16.4 kilometers long. During the morning, Harrison hiked 7.35 miles. By late afternoon, he completed the hike. How many kilometers did Harrison hike during the afternoon and how do you know your answer is reasonable?
- A 10.15 miles; I can estimate $20 - 7 = 13$. That is close to 10.15.
 - B 5.71 miles; I can estimate $12 - 7 = 5$. That is close to 5.71.
 - C 9.05 miles; I can estimate $16 - 7 = 9$. That is close to 9.05.
 - D 23.75 miles; I can estimate $16 + 7 = 23$. That is close to 23.75.

- 10 The bar graph below shows the different ways students who were surveyed in two classes go to school.



What is the range of the data?

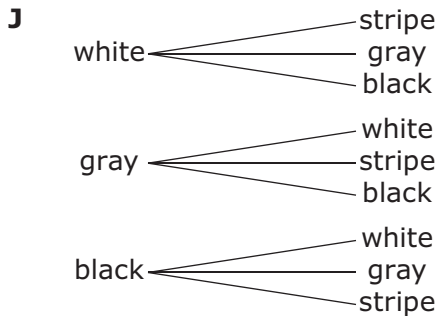
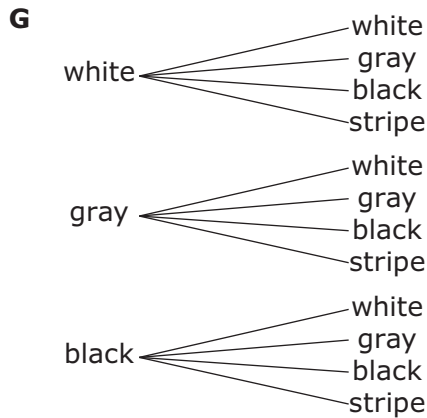
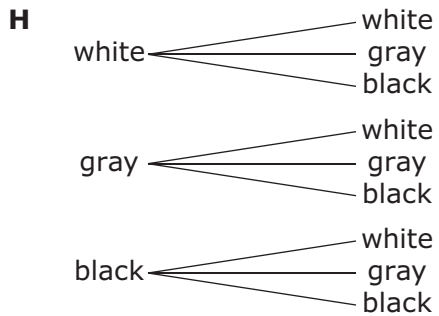
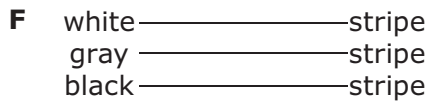
- F 5
- G 15
- H 20
- J 25

- 11** A post office sold 262 books of stamps with 20 stamps in each book, plus 56 sheets of stamps with 48 stamps per sheet. How many stamps did the post office sell in all?
- A** 5,344 stamps
 - B** 7,928 stamps
 - C** 9,688 stamps
 - D** 386 stamps

- 12** Tony made the spinners below.



If Tony spins each spinner once, which diagram shows all the possible outcomes?



13 Look at the table below.

t	15	20	25
$t - 8.3$	6.7		

What are the missing numbers in the table?

- A** 11.7 and 16.7
 - B** 11.7 and 8.7
 - C** 16.7 and 26.7
 - D** 28.3 and 33.3
-

14 Gina has 317 paper clips and has divided them equally into 4 boxes. She says that there are 79 paper clips in each box and 1 paper clip not in a box. Based on $317 \div 4$, which of the following gives the best estimate to determine whether Gina's statement is reasonable?

- F** $280 \div 4 = 70$
- G** $360 \div 4 = 90$
- H** $320 \div 4 = 80$
- J** $240 \div 4 = 60$

15 Look at the diagram below.

0.38			
0.48			
0.58	0.59	0.6	0.61
0.68			

Which statement correctly describes the pattern shown in the diagram?

- A Add 1 hundredth for each square as you move down and add 1 tenth for each square as you move to the right.
- B Add 1 tenth for each square as you move down and add 1 hundredth for each square as you move to the right.
- C Add 1 for each square as you move down or to the right.
- D Add 1 hundredth for each square as you move down and add 1 thousandth for each square as you move to the right.

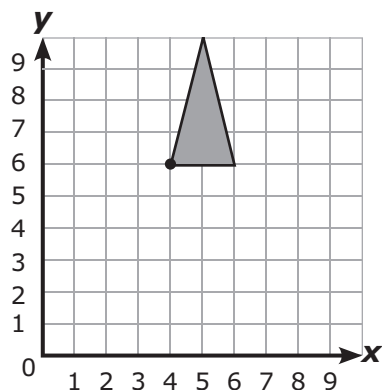
16 What is $\frac{13}{16} - \frac{3}{16}$ in simplest form?

- F $\frac{10}{16}$
- G $\frac{5}{8}$
- H $\frac{10}{0}$
- J 1

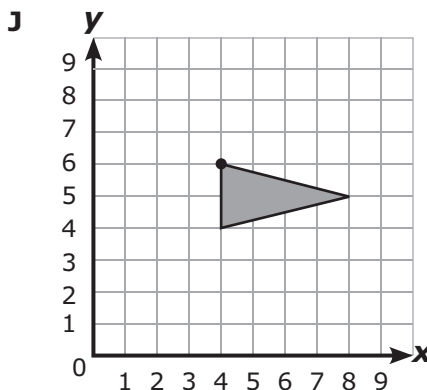
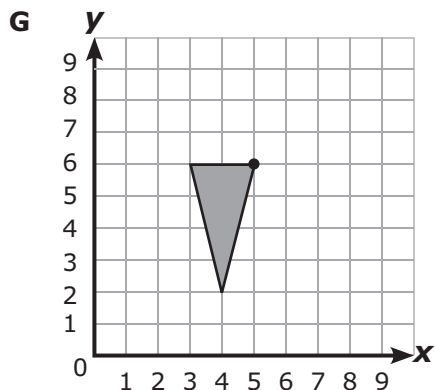
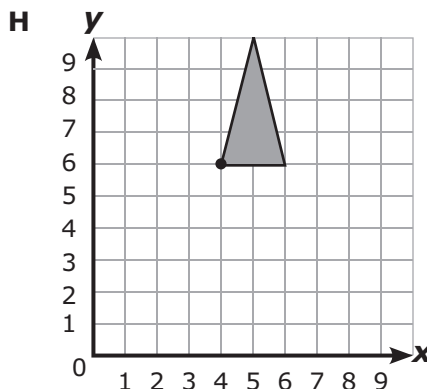
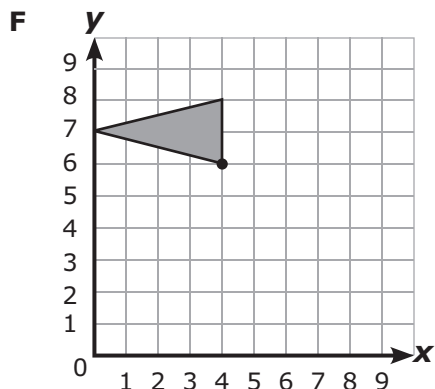
17 Jared’s mom baked two apple pies. Jared ate $\frac{1}{3}$ of a pie. His sister, Brenda, ate $\frac{2}{5}$ of a pie. His brother, Reggie, ate $\frac{3}{8}$ of a pie, and his mother ate $\frac{3}{9}$ of a pie. Who ate the most pie?

- A** Jared’s mom
- B** Jared
- C** Brenda
- D** Reggie

18 Look at the figure below.

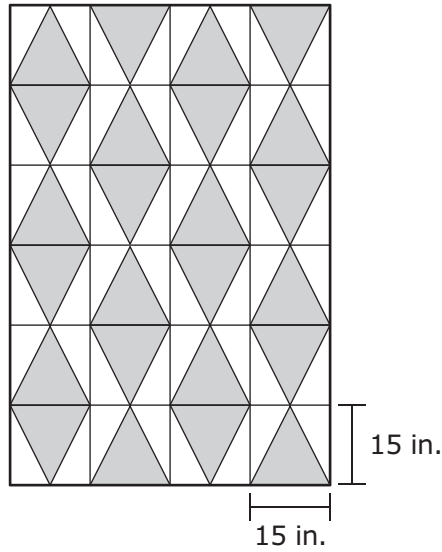


Which of the following shows the figure rotated 90° clockwise?



19 Use your STAAR Grade 5 Mathematics Reference Materials to answer this question.

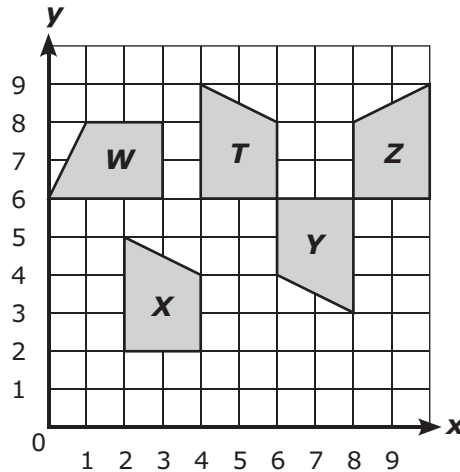
The diagram below shows a plan for a quilt Mrs. Patel is making.



What will be the total area of the finished quilt?

- A 5,400 square inches
- B 3,600 square inches
- C 300 square inches
- D 720 square inches

20 Look at the figures below.



Which figure shows the result of a translation of figure *T*?

- F Figure *W*
- G Figure *X*
- H Figure *Y*
- J Figure *Z*

21 The table below lists the heights of members of Rudy's family.

Heights of Rudy's Family	
Rudy	3 ft 2 in.
Leon	1 ft 6 in.
Rudy's Mother	5 ft 4 in.
Rudy's Father	5 ft

How many inches taller is Rudy's father than Rudy?

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

22 Which of the following set of numbers are in order from least to greatest?

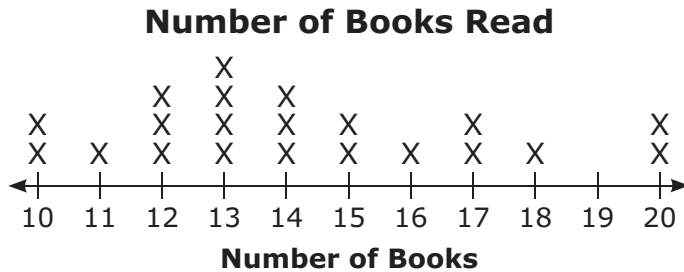
- F** 0.640, 0.064, 0.006, 0.046
- G** 0.006, 0.064, 0.046, 0.640
- H** 0.064, 0.640, 0.046, 0.006
- J** 0.006, 0.046, 0.064, 0.640

23 Use your STAAR Grade 5 Mathematics Reference Materials to answer this question.

Which of the following can be used to find the perimeter of a rectangle whose length measures 14 feet and whose width measures 9 feet?

- A** $P = 2 \times 14 \times 9$
- B** $P = 14 \times 9$
- C** $P = (2 \times 14) + (2 \times 9)$
- D** $P = \frac{1}{2} \times 14 \times 9$

24 Diana took a survey of how many books her classmates read this year. She made a line plot to display the results of her survey.



Which of the following statements about Diana's results is true?

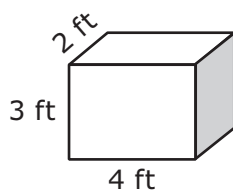
- F** The range is greater than the median.
- G** The median is equal to the mode.
- H** The mode is greater than the median.
- J** The median is greater than the mode.

25 What is the greatest common factor of 40 and 75?

- A** 2
 - B** 3
 - C** 5
 - D** 10
-

26 Use your STAAR Grade 5 Mathematics Reference Materials to answer this question.

Sara's aquarium is shown below.



What is the volume of the aquarium?

- F** 9 ft^3
- G** 12 ft^3
- H** 24 ft^3
- J** 36 ft^3

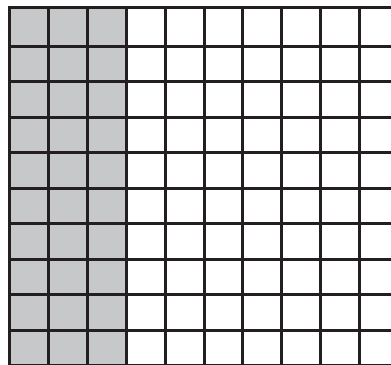
27 Students in four grades are collecting soup can labels. The goal in each grade is to collect 1,200 labels. The table below shows the fraction of the labels the students in each grade have collected so far.

Grade	Fraction of the Labels Collected
2nd	$\frac{3}{5}$
3rd	$\frac{7}{10}$
4th	$\frac{1}{2}$
5th	$\frac{5}{6}$

Which has collected more labels than the 2nd grade?

- A** All of the other grades
- B** Only 3rd grade
- C** Only 4th grade
- D** Both 3rd grade and 5th grade

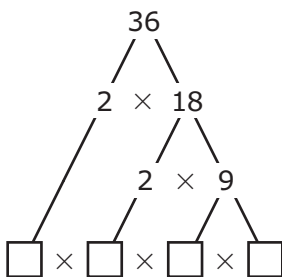
28 Look at the model below.



Which decimal and fraction describe the shaded part of this model?

- F** 0.03 and $\frac{3}{10}$
- G** 0.3 and $\frac{3}{10}$
- H** 0.7 and $\frac{7}{10}$
- J** 30 and $\frac{30}{10}$

29 Complete the factor tree below to find the prime factorization of 36.

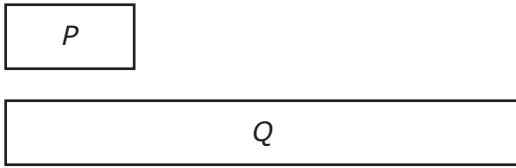


- A $2 \times 2 \times 9 \times 1$
- B $2 \times 2 \times 3 \times 2$
- C $2 \times 2 \times 3 \times 3$
- D $1 \times 1 \times 3 \times 3$

30 A play lasts for $2\frac{1}{4}$ hours. Which improper fraction shows the same number of hours?

- F $\frac{5}{4}$
- G $\frac{7}{4}$
- H $\frac{8}{4}$
- J $\frac{9}{4}$

31 In the diagram below, the length of rectangle *P* is 17 millimeters.



Which is the best estimate for the length of rectangle *Q*?

- A** 68 centimeters
- B** 34 millimeters
- C** 17 centimeters
- D** 68 millimeters

32 Cindy is assigned to read one of the books shown in the table below for a book report.

Book	Number of Pages
<i>A New Me</i>	222
<i>African-American Art</i>	68
<i>A History of Texas</i>	341
<i>Latino Music in the U.S.</i>	125

If Cindy has 12 days to read *A History of Texas*, how many pages must she read each day and how many extra pages will she still have to read?

- F** 28 pages each day with 3 extra pages to read
- G** 28 pages each day with 5 extra pages to read
- H** 29 pages each day with 3 extra pages to read
- J** 29 pages each day with 5 extra pages to read

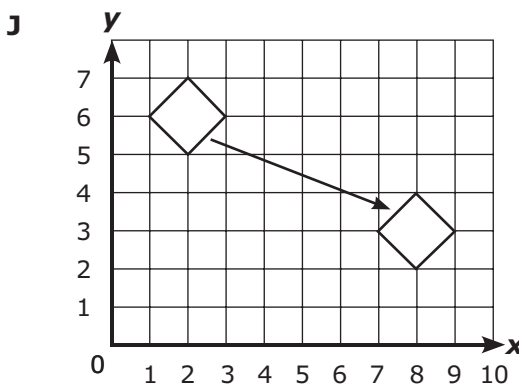
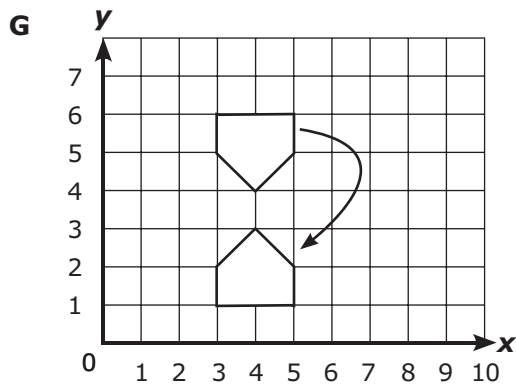
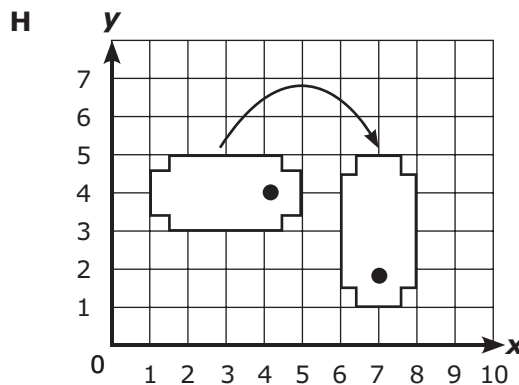
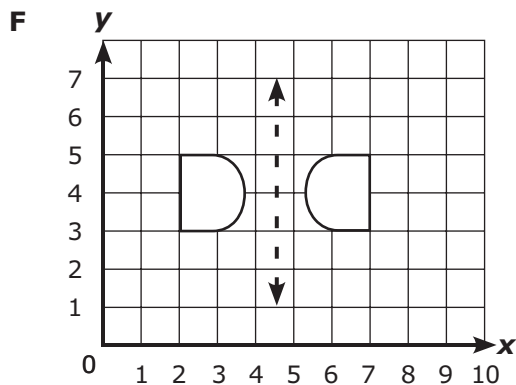
33 The table below shows how many tables are needed for a banquet.

Number of Guests	Number of Tables
8	1
32	4
48	6
96	12

Based on the information in the table, which of the following statements is true?

- A** The number of tables is 8 more than the number of guests.
- B** The number of tables is equal to the number of guests divided by 32.
- C** The number of tables is equal to the number of guests divided by 8.
- D** The number of tables is 16 fewer than the number of guests.

34 Which of the following shows a translation?



- 35** Ms. Wright counted the number of different colored marbles in a bag. She recorded her data in the table below.

Marble Color	Number of Marbles in the Bag
Red	13
Green	2
Blue	11
Yellow	8

Based on the data, if Ms. Wright picks a marble from the bag without looking, what is the probability that she will **NOT** pick a yellow marble?

- A** $\frac{4}{17}$
- B** $\frac{13}{17}$
- C** $\frac{11}{34}$
- D** $\frac{23}{34}$

- 36** The table below shows the results of an experiment using a 4-color spinner.

Color	Number of Spins
Blue	7
Yellow	4
Orange	8
Purple	5

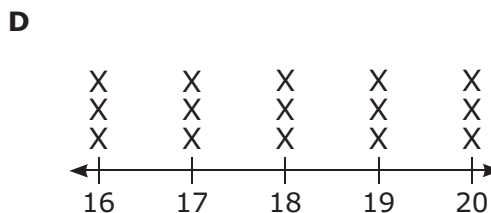
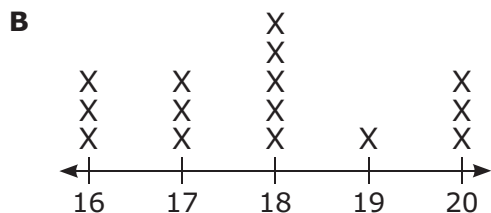
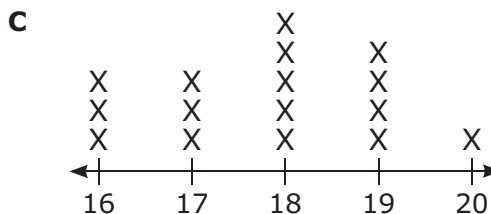
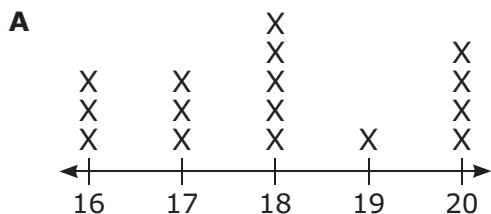
Which fraction of the spins landed on orange?

- F** $\frac{1}{8}$
- G** $\frac{1}{3}$
- H** $\frac{1}{4}$
- J** $\frac{7}{24}$

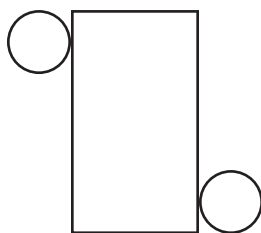
37 Zoe recorded the number of peaches she picked from each of 16 trees in her family's orchard.

18	16	17	18
20	16	19	20
18	17	16	20
20	18	17	18

Which line plot shows Zoe's data?



38 Look at the figure below.



Which solid figure can be formed from the net?

- F** Cylinder
- G** Rectangular pyramid
- H** Rectangular prism
- J** Sphere

39 Look at the table below.

g	?
4	20
6	30
8	40
10	50

Which algebraic expression represents the rule that can replace the question mark in the table?

- A** $g \div 5$
 - B** $g + 10$
 - C** $5 \times g$
 - D** $16 + g$
-

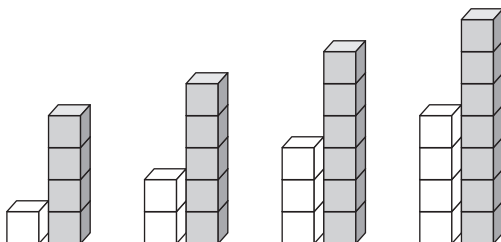
40 Tim has 35 folders with digital pictures on his computer. Each folder contains 24 pictures. How many digital pictures does Tim have in all of the folders?

- F** 162 digital pictures
- G** 192 digital pictures
- H** 720 digital pictures
- J** 840 digital pictures

41 At the library, 108 people signed up for computer classes. Six classes are offered. The librarian wants each class to be the same size. How many people should the librarian put in each class?

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

42 Look at this pattern of cubes.



If w represents the number of white cubes, and g represents the number of gray cubes, which equation represents the relationship between w and g ?

- F** $g = 3 + w$
- G** $g = 4 \times w$
- H** $g = w \div 3$
- J** $g = 3 \times w$

- 45** Lydia draws colored tiles from a bag without looking. She draws one tile at a time, records its color, and puts it back in the bag. She made a table to show her results.

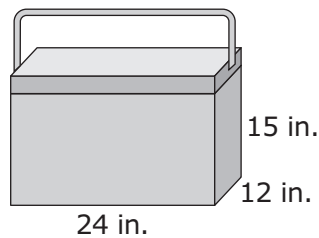
Color	Times Drawn
Red	30
Green	15
Blue	45
Yellow	10

Based on these results, which color is Lydia most likely to draw next?

- A** Red
- B** Green
- C** Blue
- D** Yellow

-
- 46** Use your STAAR Grade 5 Mathematics Reference Materials to answer this question.

Which of the following can Frank use to find the volume of the ice chest?



- F** $V = (2 \times 24) + (2 \times 12) + (2 \times 15)$
- G** $V = 24 \times 12 \times 15$
- H** $V = 2 \times 24 \times 12 \times 15$
- J** $V = 24 + 12 \times 15$

47 Jason counted how many deer he saw while hiking each week last summer. He recorded the results in a table.

Week	Number of Deer	Week	Number of Deer
1	14	6	18
2	15	7	14
3	13	8	16
4	18	9	16
5	20	10	18

Which of the following correctly describes Jason’s data?

- A** The range is 20, the mode is 18, and the median is 16.
- B** The range is 10, the mode is 16, and the median is 18.
- C** The range is 7, the mode is 18, and the median is 16.
- D** The range is 7, the mode is 16, and the median is 18.

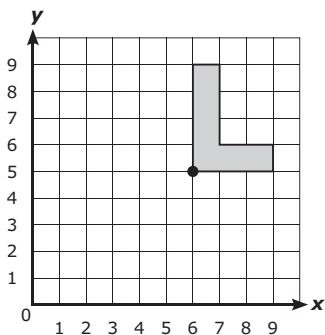
48 The table below shows the total yearly sales at Brookers Bookshop last year.

Reading Material	Total Sales
Newspapers and magazines	\$178,416
Fiction books	\$281,335
Nonfiction books	\$162,080

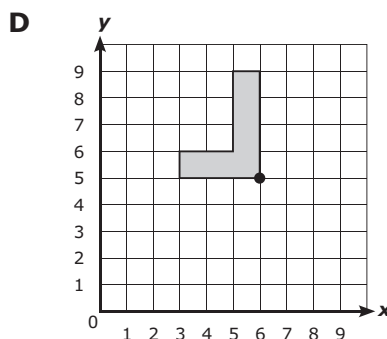
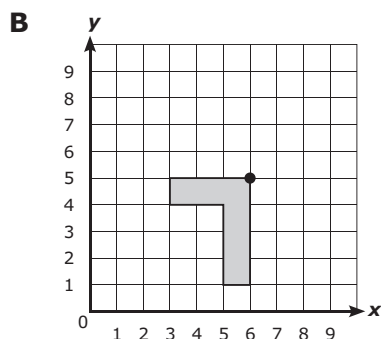
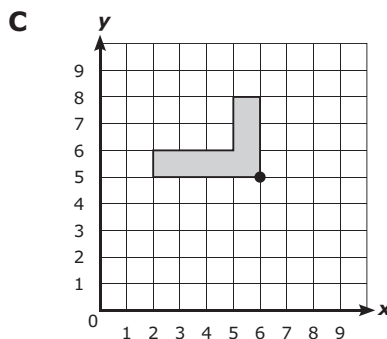
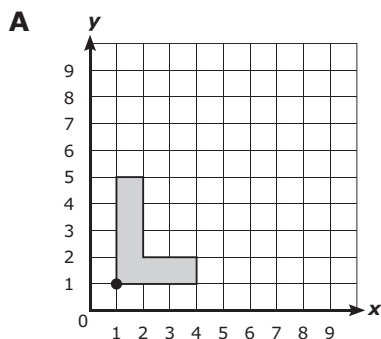
How much greater were the sales for books than for newspapers and magazines?

- F** \$621,831
- G** \$264,999
- H** \$279,009
- J** \$102,919

49 Look at the figure below.



Which of the following shows the figure rotated 180°?



50 The table below shows the amount of fruit sold at the school cafeteria on a Monday. If the trend continues, which piece of fruit will the next student most likely buy?

Fruit	Number of Fruit Sold
Apple	24
Orange	7
Banana	10
Pear	9

- F Banana
- G Apple

- H Orange
- J Pear