

4th Grade

STAAR

Stamina Test

#1

BEAD IT!

Believe, Encourage, Achieve, Desire

Name _____ Date _____

GOAL: _____ GRADE: _____

I am Smart!

I am proud to be Smart!

1) After Mrs. Kullen averaged her class grades she recorded them in her grade book as shown below.

Student	Grade Average
Sandra	95.3
Reggie	90.35
Olivia	85.2
Max	97.04

How would you read the grade average of the student who scored the highest grade in Mrs. Cullen's class?

- A) eighty-five and two tenths
- B) ninety-five and three hundredths
- C) ninety-seven and four tenths
- D) ninety-seven and four hundredths

2) Mark and Lynn were playing a number game. Mark would say a number and Lynn would say a number related to Mark's number. The table below shows the numbers that each of them said.

Mark	Lynn
56	560
110	1,100
267	2,670

If Mark's next number is 321, what number did Lynn say and why?

- F) 3,210 because Lynn multiplies Mark's number by 10
- G) 3,210 because Lynn multiplies Mark's number by 100
- H) 3,012 because Lynn multiplies Mark's number by 10.
- J) 3,102 because Lynn multiplies Mark's number by 100.

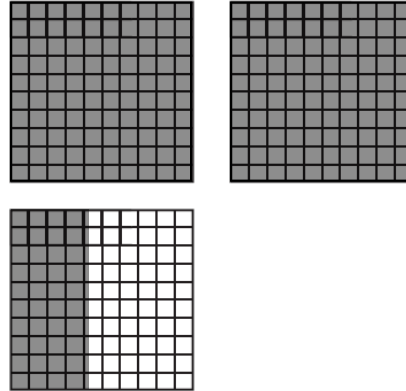
3) Mrs. Lindberg the principal gives students a treasure box treat each time they fill their card with stamps from their teacher.

Number of Stamps	Number of Treasure Box Treats
36	3
60	5
72	6
108	9

Based on the information in the table above, what is the relationship between the number of stamps and the number of treasure box treats?

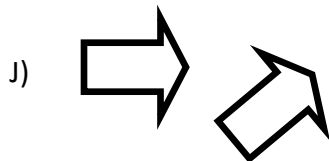
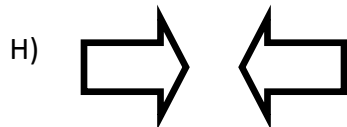
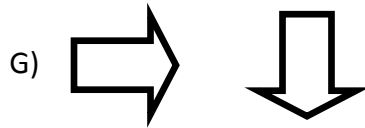
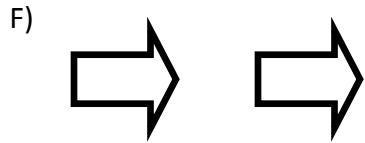
- A) Number of stamps \times 12 = number of treasure box treats
- B) Number of stamps \div 12 = number of treasure box treats
- C) Number of stamps $-$ 33 = number of treasure box treats
- D) Number of stamps \div 9 = number of treasure box treats

4) The model is shaded to represent $2\frac{4}{10}$. If 2 tenths are taken away, which decimal represents the fraction that will be left?

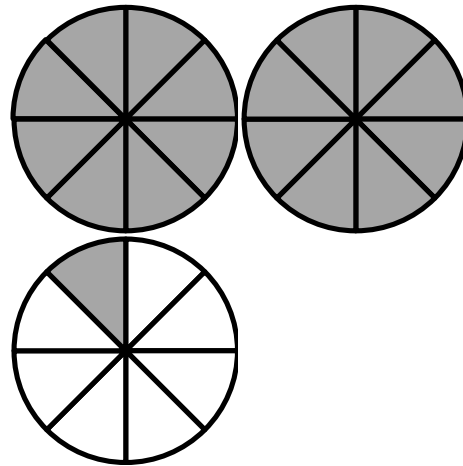


- F) 2.4
 - G) 2.2
 - H) 2.5
 - J) 0.2
- 5) Travis bought 127 cartons of soda and 134 cartons of juice boxes for the school Fall Festival. There are 12 sodas in each carton and 8 juices in each carton. How many juice boxes did Travis buy for the Fall Festival?
- A) 1,072
 - B) 1,423
 - C) 842
 - D) 16

6) Sue learned to draw a reflection in math class. Which of the following shows the correct way Sue could have drawn her reflection?



7) The shaded parts of the figure below show that the class finished $\frac{17}{8}$ pizzas during the end of the year party. Which of the following fractions is equivalent to the amount of pizza the class ate?



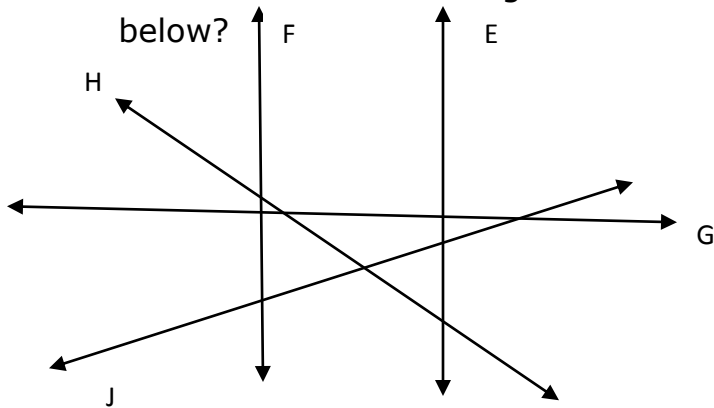
A) $\frac{1}{8}$

B) $\frac{7}{8}$

C) $2\frac{1}{8}$

D) $2\frac{7}{8}$

8) Which of the following statements is true about the line segments below?

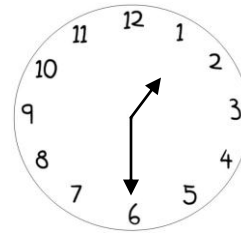


- F) Line H is parallel to Line J
- G) Line H is perpendicular to Line J
- H) Line G is perpendicular to Line J
- J) Line E is parallel to Line F

9) The school library has 338 fiction books and 278 nonfiction books. If the librarian puts the same number of nonfiction books on 2 shelves, how many nonfiction books will be on each shelf?

- A) 169
- B) 139
- C) 616
- D) 60

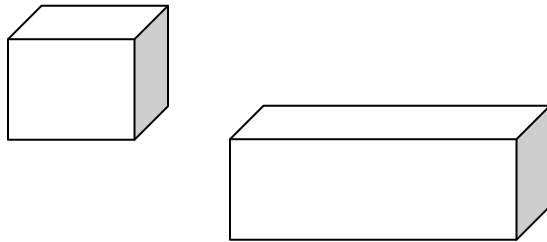
10) Jeff left the school for a dentist appointment at the time below.



It took him 10 minutes to get to the dentist office, and it took 45 minutes to get his teeth clean. What time did Jeff finish at the dentist?

- F) 2:25
- G) 3:25
- H) 2:15
- J) 2:40

11) Look at the two figures below.



Which of the following is **NOT** true about these two figures?

- A) Both figures have the 12 edges and 6 faces.
- B) Both figures have 6 vertices and 8 faces.
- C) Both figures have the same number of edges, faces, and, vertices.
- D) Both figures have 8 vertices.

12) Which of the following is the best estimate for the capacity of a large bucket of paint?

- F) 5 cups
- G) 5 pints
- H) 5 quarts
- J) 5 gallons

13) Jane held her breath underwater during swimming lessons for 10.56 seconds. Grant held his breath for 10.78 seconds. If Rodney held his breath longer than Grant, which of the following could be the amount of time Rodney held his breath?

- A) 10.65
- B) 10.71
- C) 10.6
- D) 10.8

14) The table below shows the relationship between the number of people and the amount of money collected.

Number of People	2	5	6	9
Money Collected	\$40	\$100	\$120	\$180

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

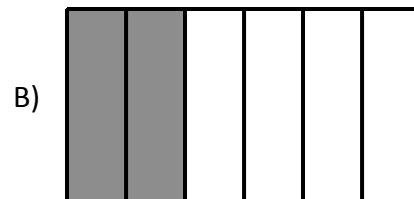
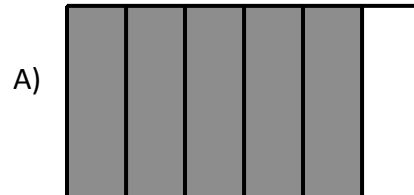
F) The money collected = 38 more than the number of people.

G) The money collected = the number of people \div 20.

H) The money collected = the number of people \times 20.

J) The money collected = the number of people \times 10.

15) Henry used $\frac{3}{4}$ of his notebook to practice his art work. George used a greater amount of his notebook than Henry. Which of the following fractions could represent George's notebook?



16) Randy wants to have a water balloon fight at his birthday party on Saturday. There are 56 friends coming to his birthday party. If he wants each person to be able to throw 8 water balloons, which of the following is the best estimate for the number of water balloons Randy needs to buy?

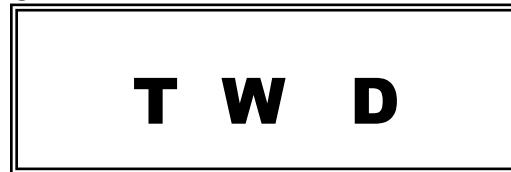
- F) 400 water balloons
- G) 480 water balloons
- H) 7 water balloons
- J) 500 water balloons

17) Below there are two sets of letters.

SET A



SET B



Which of the following statements is true about these letters?

- A) The letters in Set B do not have any lines of symmetry, while the letters in Set A have at least one line of symmetry.
- B) The letters in Set A have at least 2 lines of symmetry, while the letters in Set B only have one line of symmetry
- C) The letters in Set A and Set B both do not have any lines of symmetry.
- D) The letters in Set B have more lines of symmetry than the letters in Set A.

18) Anna wrote the following number sentence on her paper.

$4 \times \underline{\quad} = 48$

She did not know how to find the missing number. Which of the following number sentences could help Anna find the missing number?

- F) $48 \div 4 = \underline{\quad}$
- G) $4 + 48 = \underline{\quad}$
- H) $4 \times 48 = \underline{\quad}$
- J) $48 - 4 = \underline{\quad}$

19) For a science experiment each student needed to pick one animal and one food from the list the teacher gave.

Animals	Food
Rabbit	Grass
Turtle	Insects
Squirrel	Fish
Mouse	

Given this data, how many different combinations of animal and food can the students pick?

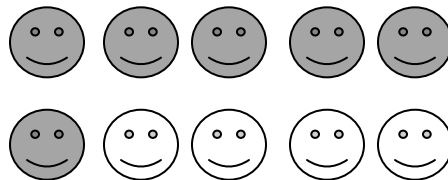
- A) 7
- B) 8
- C) 12
- D) 9

20) Marlin Elementary has 17 classrooms of students. Each classroom has 1 teacher and 22 students. How many students attend Marlin Elementary?

Please record your answer in the grid below.

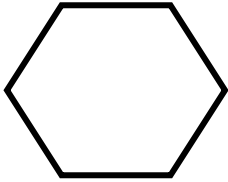
0	0	0	.
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	

21) John had 10 smiley faces on his behavior card. His teacher colors a smiley face each day that John behaves in class. Which of the following decimals is equivalent to the fraction of smiley faces that are shaded?



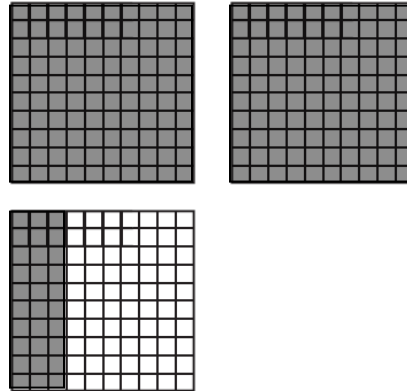
- A) 0.06
- B) 0.04
- C) 0.4
- D) 0.6

22) Which of the following is true about the 2-dimensional figure below?



- F) This figure is a hexagon with all right angles.
- G) This figure is a hexagon with all obtuse angles.
- H) This figure is a pentagon with all acute angles.
- J) This figure is a pentagon with all obtuse angles.

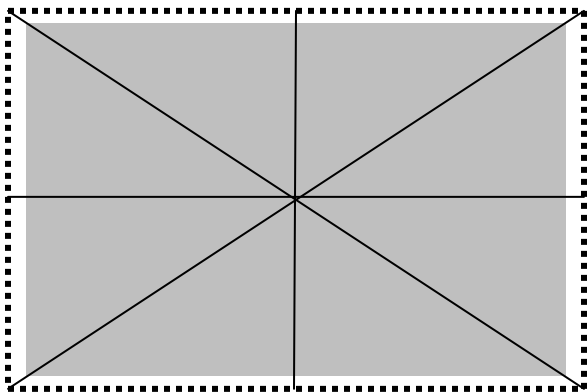
23) Lionel had 2 dollar bills and 3 dimes as shown by the model below.



If Lionel spent \$1.08 on a pack of gum, how much money does Lionel have left?

- A) \$1.22
- B) \$1.38
- C) \$1.32
- D) \$3.38

24) The picture below is the size of the new rug the Murphy's are buying for their living room. They need to know if they can fit it in their living room that is 15 feet by 12 feet. Use your mathematics chart to measure the rectangle below to the nearest inch. If each inch is equal to 3 feet, what is the area of the rectangle below in square feet?



- F) 10 square feet
- G) 6 square feet
- H) 18 square feet
- J) 54 square feet

25) The following is a table that a 4th grade class was using to understand relationships between numbers.

Input	Output
7	21
12	26
18	32
31	45

Using the table above, what is the relationship between the input and the output?

- A) Multiply by 3
- B) Divide by 3
- C) Add 14
- D) Subtract 14

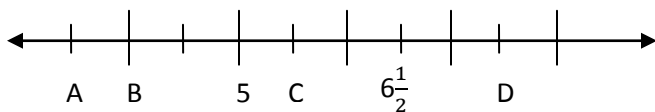
26) The table below shows the amount of rainfall Richmond, Texas received in the past 4 months.

Month	Rainfall (inches)
January	2.34
February	1.9
March	2.5
April	2.09

Using the information in the table, which of the following shows the months listed from greatest amount of rainfall to least?

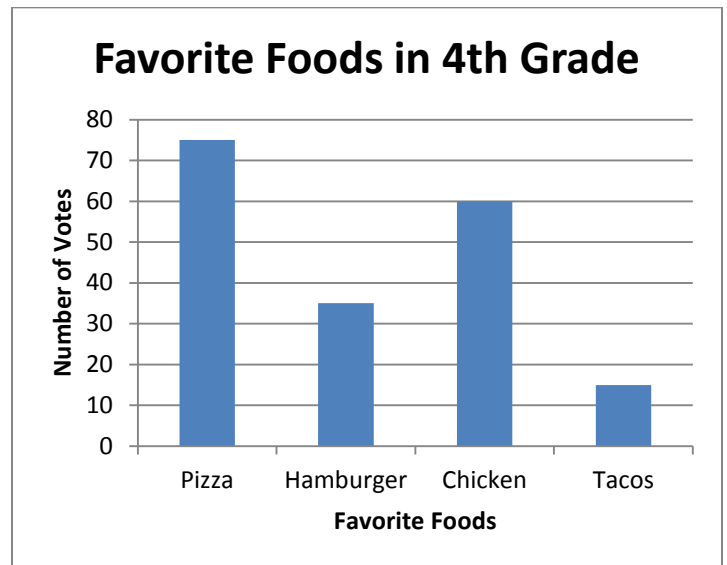
- F) February, March, January, April
- G) February, April, January, March
- H) January, March, April, February
- J) March, January, April, February

27) Ingo finished $3\frac{1}{2}$ pages of his homework. Which of the following points represents $3\frac{1}{2}$ pages?



- A) A
- B) B
- C) C
- D) D

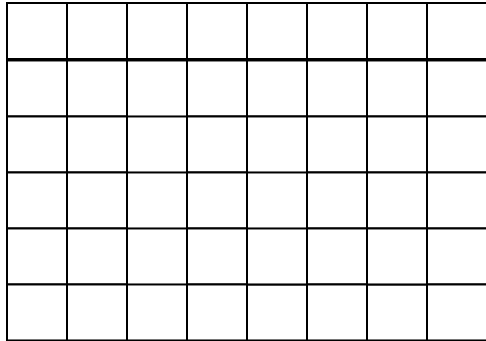
28) Michael decided to survey the 4th grade and make a bar graph to show the data he collected.



Based on the data in the graph above, how many more people liked hamburger and chicken than pizza and tacos combined?

- F) 95
- G) 5
- H) 10
- J) 15

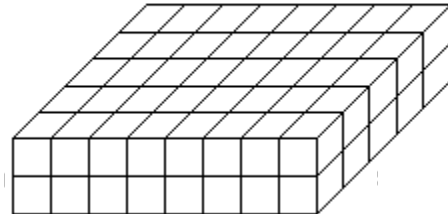
29) Sarah built a model of her classroom floor as show below.



If the area of the floor is shown in square units, how can you find the area of this model?

- A) Find the sum of 24 and 24
- B) Find the product of 6 and 8
- C) Find the difference between 48 and 6
- D) Find the product of 12 and 4

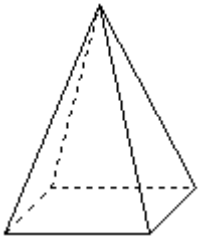
30) Miguel has two boxes. One of the boxes has a volume of 120 cubic units. The other box is made of the cubic units shown below.



What is the difference between the volume of Miguel's 2 boxes?

- F) 40 cubic units
- G) 200 cubic units
- H) 80 cubic units
- J) 104 cubic units

31) Which of the following is true about the figure below?



- A) The figure has 4 faces and is called a triangular prism.
- B) The figure has 4 faces and is called a square pyramid.
- C) The figure has 5 faces and is called a square pyramid.
- D) The figure has 5 faces and is called a triangular prism.

32) Tyree and Paul were collecting shells on the beach. Tyree collected 142 shells and Paul collected 152 shells. They decided they put an equal number of shells into their 3 buckets. How many shells were put into each bucket?

- F) 294 shells
- G) 50 shells
- H) 10 shells
- J) 98 shells

33) At Cindy's birthday party, her friends were allowed to pick three things to go into their party bag. They could pick one sticker, one color of notepad, and one writing utensil. How many different combinations of 3 things could her friends pick?

Sticker	Notepad	Writing Utensil
Frog	Red	Marker
Heart	Pink	Glitter Pen
Smelly	Purple	Pencil
Star		Crayon
Butterfly		

			.
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	

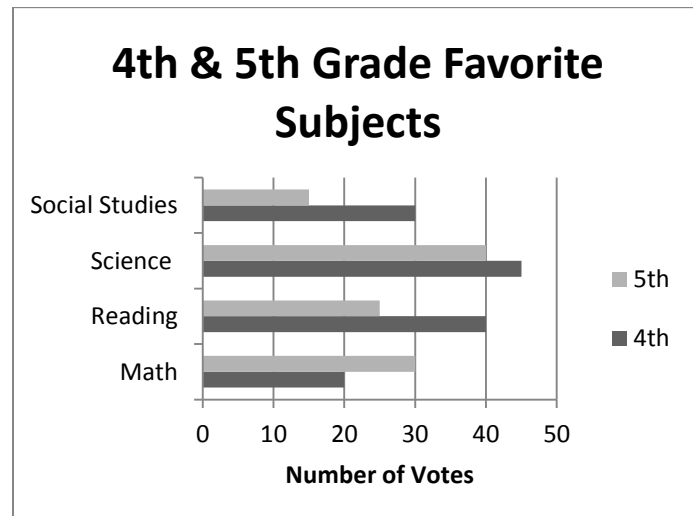
34) Roderick drew the trapezoid below.



Which of the following is **NOT** true about this trapezoid?

- F) This figure has only one pair of parallel lines.
- G) This figure has 2 acute angles.
- H) This figure has one pair of perpendicular lines.
- J) This figure has 2 obtuse angles.

35) The 4th and 5th grade completed a survey of their favorite subject in school that year. The results are shown in the graph below.



Based on the graph, how many more 5th graders liked Science than Reading?

- A) 15
- B) 65
- C) 5
- D) 85

36) The table below shows the number of yards it is from Frost Elementary to different places in the city.

Location	Yards from Frost
Park	12,085
Post Office	20,900
Grocery Store	31,798
Gas Station	17,156

How much further from Frost is the Post Office than the Gas Station?

- F) 38,056 yards
- G) 3,744 yards
- H) 17,856 yards
- J) 3,754 yards

37) A diagram of a square classroom is drawn below. During the summer, 3 classrooms are getting a new tile floor. How many square feet of tile will it take to cover the area of all 3 classrooms?



- A) 40 square feet
- B) 100 square feet
- C) 120 square feet
- D) 300 square feet

38) The table shows the departure and arrival times for Bus 13 each day in the morning for one week.

Day	Mon.	Tues.	Wed.	Thurs.	Fri.
Departure Time	6:44	6:42	6:39	6:45	6:40
Arrival Time	7:23	7:21	7:18	7:24	7:19

Based on the information in the table, which of the following correctly describes the relationship between the departure and arrival times each day?

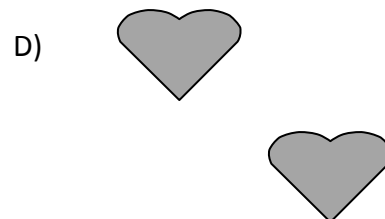
F) There are 39 minutes between the departure time and the arrival time each day.

G) There are 40 minutes between the departure time and the arrival time each day.

H) There are 16 minutes between the departure time and the arrival time each day.

J) There are 23 minutes between the departure time and the arrival time each day.

39) Which of the following shows a translation of 2 congruent figures?



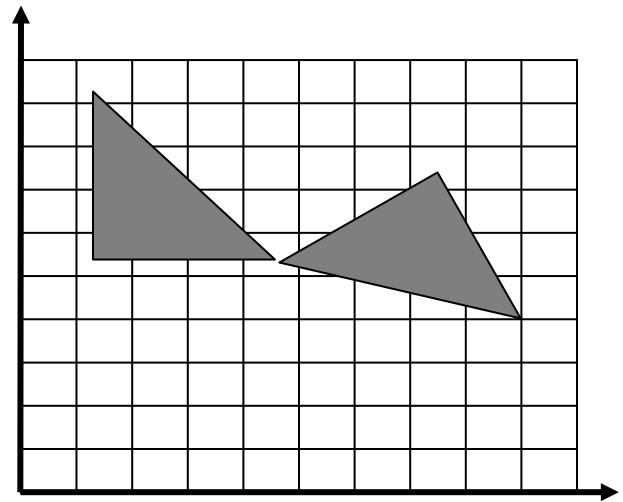
40) Sherry puts 9 coins in each envelope for her students to practice counting money with. If Sherry starts with 153 coins, how many envelopes can Sherry fill?

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) Jamie measured the windows in her room and found that to decorate them with ribbon she will need 8 feet of ribbon. Jamie goes to the store and finds that you can only buy ribbon in inches. How many inches of ribbon does Jamie need to decorate her windows?

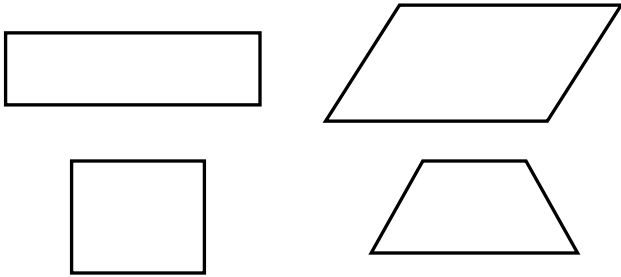
- A) 3 inches
- B) 96 inches
- C) 8 inches
- D) 86 inches

42) Which transformation is shown below?



- F) Translation
- G) Reflection
- H) Rotation
- J) Not Here

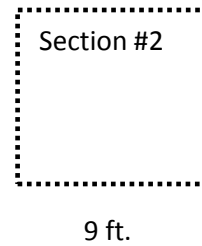
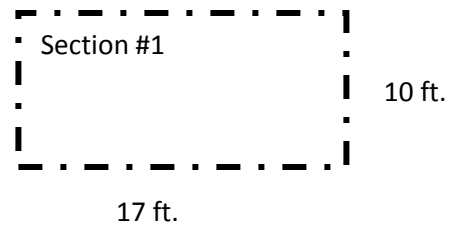
43) Look at the figures below.



Which of the following is true about these shapes?

- A) All four shapes have at least one right angle.
- B) All four shapes have no parallel lines.
- C) All four shapes are quadrilaterals.
- D) All four shapes have 2 acute and 2 obtuse angles.

44) The P.E. teacher is putting rope around two sections of the playground.



How many total feet of rope will the P.E. teacher need to go around the perimeter of both sections of the playground?

- F) 36 feet
- G) 18 feet
- H) 63 feet
- J) 90 feet

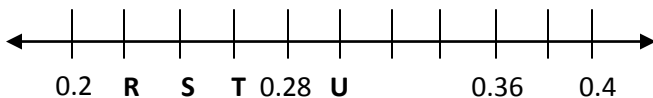
45) The following is a table with the amount of money some of the richest people in the United States make in one year.

Person	Amount of Money
Donald Trump	\$47,547,387
Bill Gates	\$58,200,510
Oprah Winfrey	\$9,846,234
Warren Buffet	\$57,098,982

Based on the information in the table, which of the following is another way to write the greatest amount of money on the list?

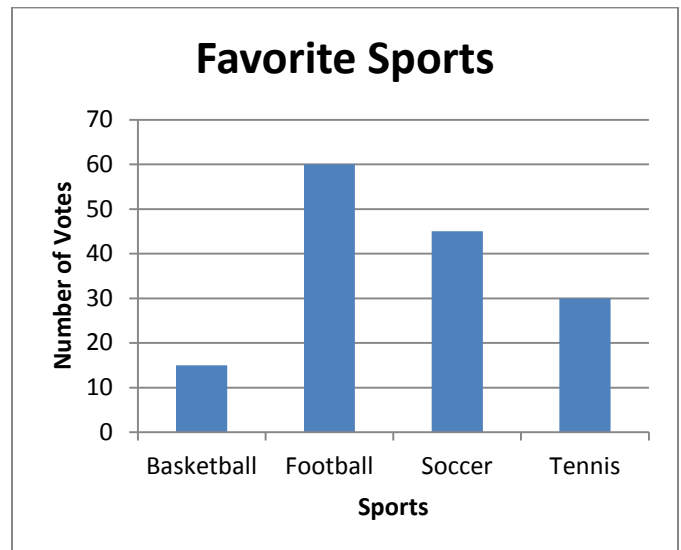
- A) Fifty-eight million, two hundred thousand, five hundred ten dollars
- B) Five hundred eighty-two thousand, five hundred ten dollars
- C) Nine million, eight hundred forty-six thousand, two hundred thirty-four dollars
- D) Fifty-seven million, ninety-eight thousand, nine hundred eighty-two dollars

46) Teresa found 0.24 of a dollar in the parking lot. Where is this amount of money on the number line below?



- F) Point R
- G) Point S
- H) Point T
- J) Point U

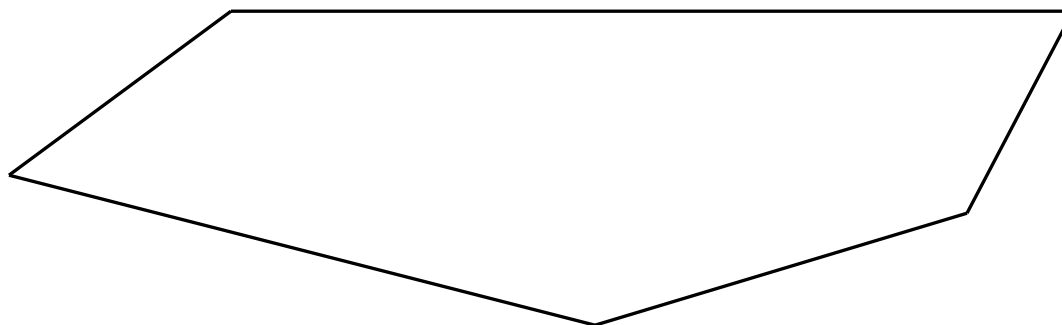
47) A radio station was doing a survey of people's favorite sports. The graph below shows the results.



The Houston Texans owner called in and said that every person who voted for football as their favorite would each receive 4 free tickets to a game. How many Houston Texans free tickets were given out?

- A) 60
- B) 180
- C) 150
- D) 240

48) Mrs. Houser is putting concrete stones around the perimeter of her flower bed. A diagram is drawn below. Using your reference chart, measure the perimeter of Mrs. Houser's flower bed to the nearest centimeter. How many feet of concrete stones will Mrs. Houser need to finish the project?



1 centimeter = 1 foot

- F) 36 feet
- G) 28 feet
- H) 31 feet
- J) 32 feet

4th Grade - STAAR Stamina Test #1 Blueprint

Question #	TEK	Readiness or Supporting	Question Details	Answer Key
1	4.1B	R	Decimal – write decimal from table in word form	D
2	4.6B	S	Multiply by 10 and 100 (10)	F
3	4.7A	R	Relationship between data (vertical, division, words)	B
4	4.2D	R	Relate decimals to fractions with concrete models (hundredths)	G
5	4.4D	R	Multiplication – extra info. 3 x 1	A
6	4.9B	R	Which shows a reflection	H
7	4.2B	S	Fractions greater than 1 Improper to mixed	C
8	4.8B	S	Lines – Line picture (parallel)	J
9	4.4E	R	Division – extra info.	B
10	4.12B	S	Time – elapsed	F
11	4.8C	R	Essential Attributes (3D – compare which is not true prisms)	B
12	4.11A	R	Estimate capacity	J
13	4.1B	R	Compare decimals – no table, but make equivalent	D
14	4.7A	R	Relationship in data (horizontal, multiplication, symbols)	H
15	4.2C	S	Comparing Fractions – find which is greater	A
16	4.5B	S	Estimation - multiplication	G
17	4.9C	S	Symmetry (letter H & A– compare which is true)	B
18	4.6A	S	Patterns in Multiplication and Division (fact Family)	F
19	4.13A	S	Combinations (2 choices)	C
20	4.4D	R	Multiplication (griddable) 2x2	374
21	4.2D	R	Relate decimals to fractions – concrete models tenths	D
22	4.8A & B	S	Lines & Angles 2D figure – which is true	G
23	4.3B	S	Addition with decimals (have to add zeroes and line up)	A

24	4.11A	R	Measure in inches find area	J
25	4.7A	R	Relationship in data Vertical – addition	C
26	4.1B	R	Order Decimals – match words from table	J
27	4.10A	R	Number Line (fractions halves)	A
28	4.13B	R	Bar Graphs (difference)	G
29	4.4A	S	Model Multiplication with area model	B
30	4.11C	S	Volume (difference - cubic units)	F
31	4.8C	R	3D Attributes (faces) Pyramid	C
32	4.4E	R	Division 2 x 1 must add before divide	J
33	4.13A	S	Combinations 3 choices (griddable)	60
34	4.8A	S	Angles – 2D figure	H
35	4.13B	R	Bar graphs – add then subtract	A
36	4.3A	S	Subtraction	G
37	4.11A	R	Area of a square word problem	D
38	4.7A	R	Relationship in data Horizontal – change in time	F
39	4.9B	R	Translation of 2 congruent (some on congruent)	D
40	4.4E	R	Division – 3 x 1 with no remainder (griddable)	17
41	4.11B	S	Conversions (length)	B
42	4.9B	R	Identify Rotation	H
43	4.8C	R	2D shapes Quadrilaterals – compare 4 different ones (which is true)	C
44	4.11A	R	Perimeter – compare 2 figures	J
45	4.1A	S	Whole number place value – order answer in word form	A
46	4.10A	R	Number line (decimals -2 tenths)	G
47	4.13B	R	Bar Graphs (compare)	D
48	4.11A	R	Perimeter – measure in cm	H