

3rd Grade
Math Practice
STAAR Test #2
&
Item Analysis

3rd Grade

STAAR

Stamina Test

#2

GAME ON!

Name _____ Date _____

GOAL: _____ GRADE: _____

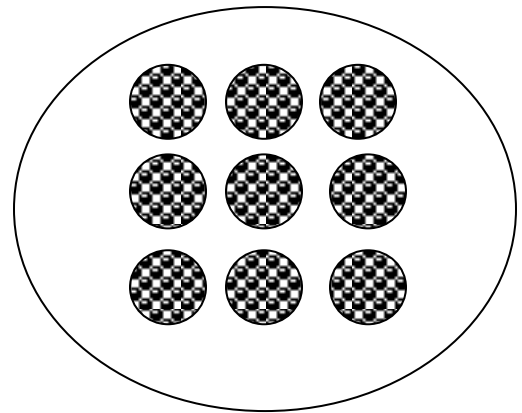
I am Smart!

I am proud to be Smart!

1) Jesse spent a total of \$125 on school clothes. He spent \$49 on shirts, \$37 on pants, and the rest of his money on shoes. How much money did Jesse spend on shoes?

- A) \$86
- B) \$39
- C) \$211
- D) \$76

2) Mrs. Witten arranged cookies on plates as shown below for the party. Each plate has the same number of cookies. Which of the following lists could be the numbers of cookies Mrs. Witten put on the plates?



- F) 9, 19, 29, 39
- G) 18, 27, 39, 48
- H) 18, 27, 36, 45
- J) 9, 10, 11, 12

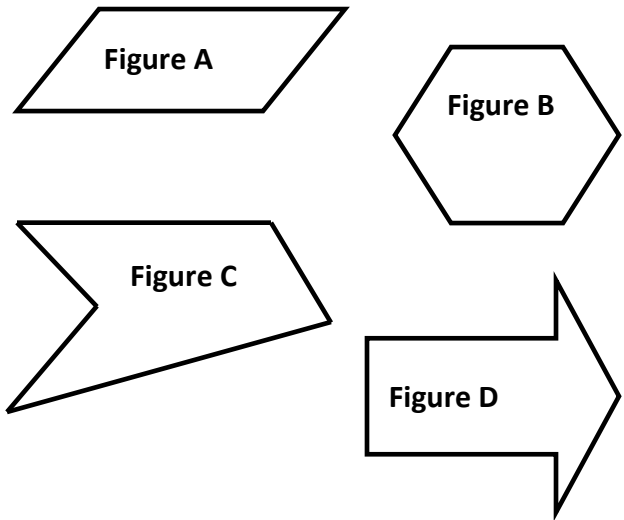
3) John is putting the scores from the video game tournament in order from highest to lowest so that he can give out the prizes.

Award	High Scores
1 st Place	9,345
2 nd Place	9,221
3 rd Place	
4 th Place	8,726
5 th Place	8,234

Which of the following scores below is the 3rd place score?

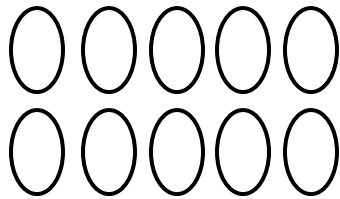
- A) 8,203
- B) 10,124
- C) 9,495
- D) 9,099

4) Delores was trying to draw a pentagon. She drew the following figures below. According to the attributes of a pentagon, which figure was drawn correctly, and why?



- F) Figure A because it has 4 vertices and 4 edges.
- G) Figure B because it has 6 vertices and 6 edges.
- H) Figure C because it has 5 vertices and 5 edges.
- J) Figure D because it has 7 vertices and 7 edges.

5) Ming is decorating eggs for Easter. She has 10 eggs as shown below. Ming puts polka dots on 3 eggs, stripes on 3 eggs, and the rest she puts stickers on. What fraction of the eggs does she put stickers on?



- A) ten-fourths
- B) six-tenths
- C) four-sixths
- D) four-tenths

6) During a science experiment, the following data was collected. What is the relationship between the input and the output?

Input	Output
7	27
10	30
12	32
19	39

- F) Add 20
- G) Add 3
- H) Multiply by 20
- J) Multiply by 3

7) Farmer Smith plants 14 rows of corn in his garden. In each row he plants 5 corn seeds. All of the seeds grow into corn plants except for 10. How many total seeds grew into corn plants?

- A) 60
- B) 19
- C) 50
- D) 29

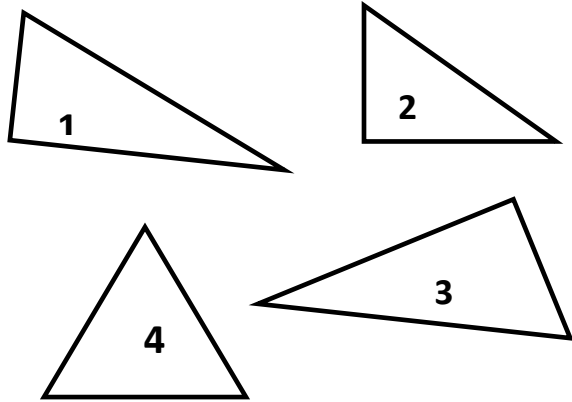
8) The McNall family is planning on putting stones around the perimeter of their house. Use your reference chart to measure the perimeter of the McNall house. If every inch measured equals 3 stones. How many total stones does the McNall family need to buy?



1 inch = 3 stones

- F) 10 stones
- G) 20 stones
- H) 30 stones
- J) 18 stones

9) Bailey drew the 3 figures below. He said that Figure 1 and Figure 3 are congruent. Is Bailey correct, and why?



A) No, they are not congruent because they are not the same size.

B) Yes, they are congruent because they are the same size and same shape.

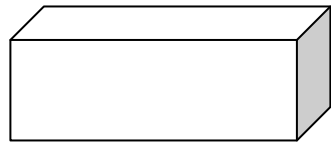
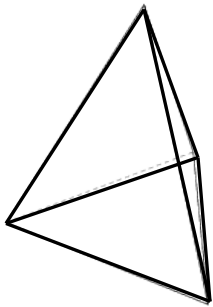
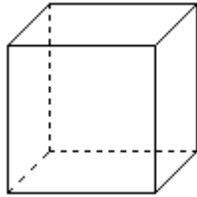
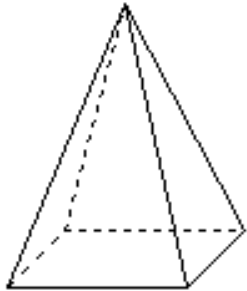
C) Yes, they are congruent because they are **NOT** the same shape.

D) No, they are not congruent because they are not the same shape.

10) Sally has 67¢. She bought a piece of gum for 45¢. Which of the following shows the amount of money Sally had left after she bought the gum?



11) Mrs. Jameson has the following figures on the table. She asks the class to put the figures into two groups.



Which of the following would be one way to separate these figures into two groups?

- A) Prisms and Pyramids
- B) Polygons and Not Polygons
- C) 2D and 3D
- D) Quadrilaterals and Not Quadrilaterals

12) The table below shows the number of cars of different colors the car dealership sold in one year.

Car Color	Number Sold
Blue	124
Red	278
White	849
Black	513

Based on the information in the table above, which is the best estimate for how many more white cars were sold than red cars?

- F) 400
- G) 500
- H) 600
- J) 700

13) Greg created a pattern on index cards below. Which of the following best describes this pattern?

280	266	252	238	224
-----	-----	-----	-----	-----

- A) The pattern is decreasing by 26.
- B) The pattern is increasing by 26.
- C) The pattern is increasing by 14.
- D) The pattern is decreasing by 14.

14) The 1st grade class at Birdie Elementary is charting the number of days in different numbers of weeks.

Number of Weeks	Total Number of Days
2	14
5	35
8	56
11	77

Based on the information in the table, what is the relationship between the number of weeks and the total number of days?

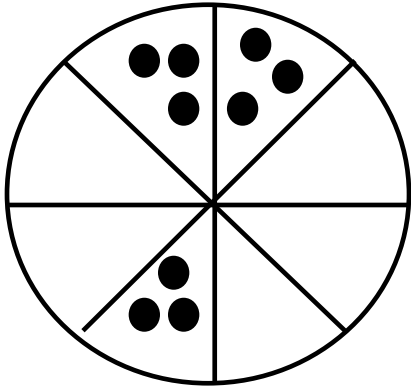
F) Number of weeks + 12 = Total number of days

G) Number of weeks + 21 = Total number of days

H) Number of weeks \div 7 = Total number of days

J) Number of weeks \times 7 = Total number of days

15) The following shows a model of the pizza ordered by the Rodriguez family.



What fraction of the pizza does **NOT** have pepperoni on it?

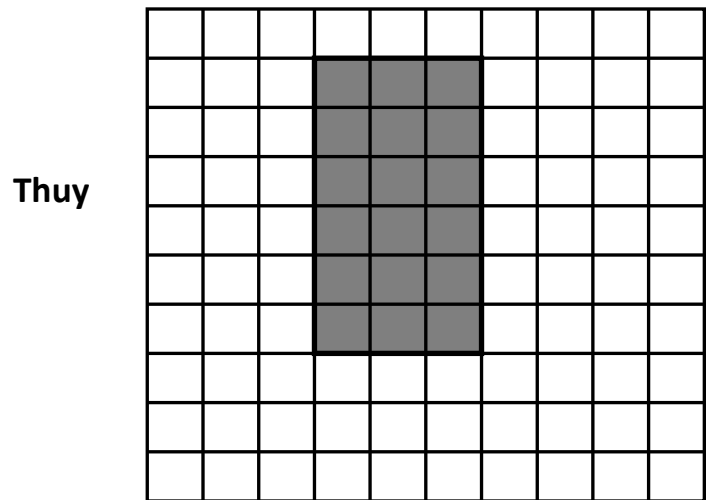
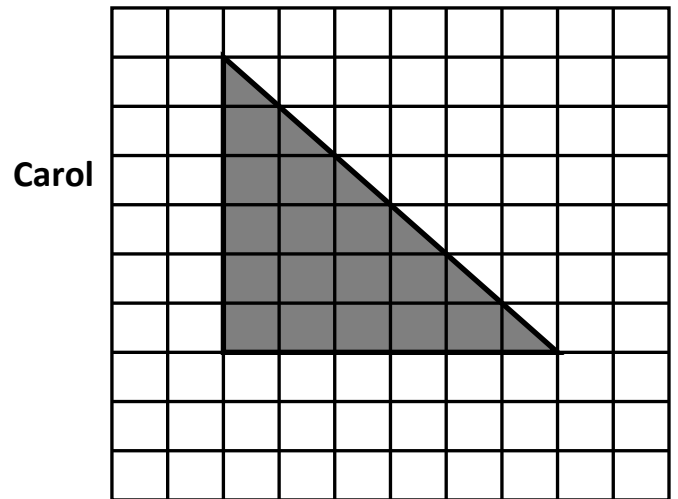
A) $\frac{3}{8}$

B) $\frac{8}{3}$

C) $\frac{5}{8}$

D) $\frac{4}{8}$

16) Carol and Thuy both drew a picture as shown below. Which of the following statements compares the area of the two figures correctly?



F) Carol's figure has greater area than Thuy's figure.

G) Both figures have exactly the same area.

H) Carol's figure has an area less than Thuy's figure.

J) Thuy's figure has an area less than Carol's figure.

17) Students were playing a game in math class called, "Guess the figure."

The following clues were given

- It is a two-dimensional figure
- It has 6 vertices.
- It has 6 edges.

Which of the following figures below is being described in the clues above?

- A) Hexagon
- B) Octagon
- C) Pentagon
- D) Quadrilateral

18) Africa is one hundred, seventy-six thousand, five miles from Texas, and Antarctica is two hundred seven thousand, fourteen miles from Texas.

Which of these numbers represents the continent that is furthest away from Texas?

- F) 100,765
- G) 176,005
- H) 207,014
- J) 200,714

19) The Ngyuen family is putting a fence around their square yard. Each side of the yard is 5 yards.

Mr. Nguyen buys 24 yards of fence. Did Mr. Ngugen buy enough fence to go around the perimeter of their yard and why?

A) No, he did not buy enough because he needs 25 yards of fence.

B) Yes, he did buy enough because he needed 20 yards of fence.

C) Yes, he did not buy enough because he needed 10 yards of fence.

D) Yes, he did buy enough because he needed 24 yards of fence.

20) There are 10 kids packing their suitcases for summer camp. The camp list says that each person needs to bring 6 shirts, 5 pairs of shorts, 7 pairs of socks, 2 caps, and 2 pairs of shoes.

Based on this information how many total shirts would be packed by the ten kids going to camp?

Please record your answer in the grid below.

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

21) The pictograph below shows the favorite colors of students in 3rd grade.



 = 3 people

According to the pictograph, which of the following tables matches the information correctly?

A)

Blue	12
Red	6
Green	6
Black	3

B)

Blue	4
Red	2
Green	3
Black	1

C)

Blue	12
Red	6
Green	9
Black	3

D)

Blue	8
Red	4
Green	6
Black	2

22) There are 20 color tiles in a bucket. The tally chart below shows the number of color tiles of each color. If a student draws one color tile out of the bucket without looking, which 2 colors does the student have an equally likely chance of getting?

Color	Number of Tiles
Red	
Blue	
Green	
Yellow	

F) Blue and Green

G) Yellow and Blue

H) Red and Yellow

J) Red and Green

23) Each student in the art club receives a free pack of markers. The table below shows how many total markers are in different numbers of packages.

Number of Boxes	Number of Markers
2	10
5	25
7	35
8	40

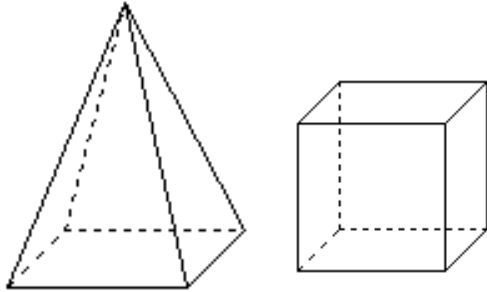
Based on the information in the table above, how many markers would be in 12 boxes?

- A) 45 markers
- B) 60 markers
- C) 50 markers
- D) 55 markers

24) Three boys were playing in the car center. There are 33 cars. If each boy receives an equal number of cars to play with, which number sentence shows how many cars each person can play with?

- F) 33×3
- G) $33 \div 3$
- H) $33 - 3$
- J) $33 + 4$

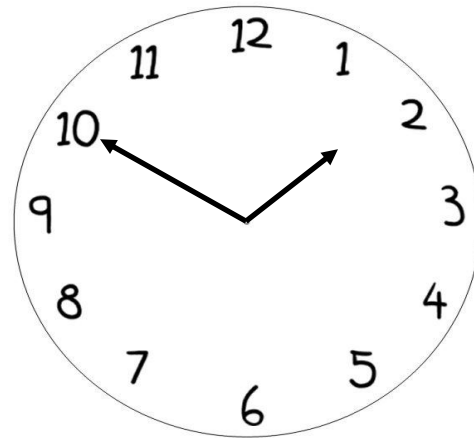
25) Use the two figures below to answer the following question.



Compare the two figures above. Which of the following is true about these two figures?

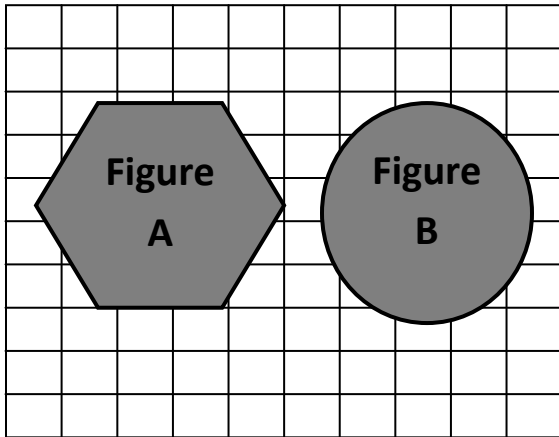
- A) Both figures have a square base.
- B) Both figures have the same number of vertices.
- C) Both figures have the same number of edges.
- D) Both figures have the same number of faces.

26) Rodney arrived at the doctor's office **before** his appointment time. The time Rodney arrived is shown on the clock below. Which of the following times is his appointment time?



- F) 1:45 p.m.
- G) 1:10 p.m.
- H) 1:50 p.m.
- J) 2:00 p.m.

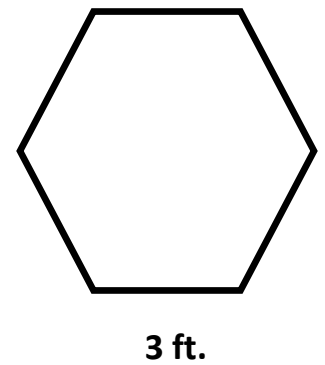
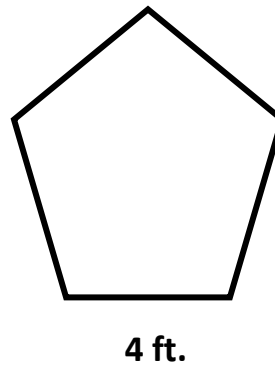
27)



Using the 2 shapes above, which of the following statements correctly compares the symmetry of the two figures?

- A) Figure A has more lines of symmetry than Figure B.
- B) Figure A and B have the same number of lines of symmetry.
- C) Figure B has more lines of symmetry than Figure A.
- D) Figures A and B have no lines of symmetry.

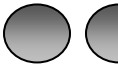



28) Mrs. Stegemiller is using tape to create shapes on the floor in the classroom. How much total tape would she need to go around the perimeter of the pentagon and hexagon shown below?







- F) 38 ft.
- G) 20 ft.
- H) 7 ft.
- J) 31 ft.

29) Coach Parker made a pictograph of the total number of points scored by the different sports during the season. Which of the following keys should be used on the pictograph to correctly show the information in the table?

Sport	Total Points
Baseball	30
Football	60
Soccer	10
Basketball	100

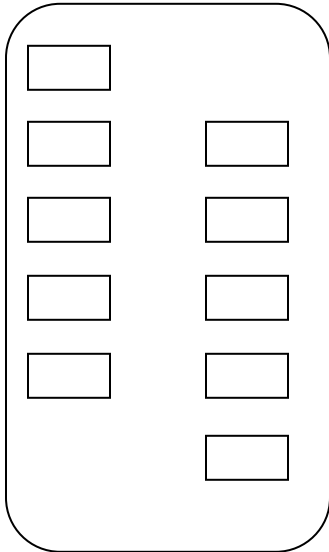
Baseball	
Football	
Soccer	
Basketball	

- A) Each  is 20 points.
- B) Each  is 10 points.
- C) Each  is 5 points.
- D) Each  is 15 points.

30) Whitney had 500 beads to use to make jewelry. She has 224 red beads, 230 blue beads, and the rest were gold. How many of the beads were gold?

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

31) The school bus has 10 seats as shown below. There are 3 people in each seat. At the first stop 12 people get off the bus. Which number sentence shows how many people are still on the bus?



- A) $3 \times 10 + 12$
- B) $3 \times 10 - 12$
- C) $3 + 10 - 12$
- D) $3 + 10 + 12$

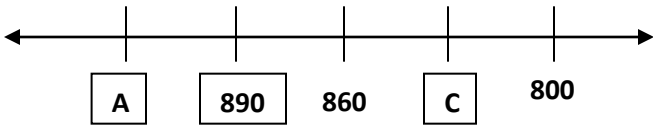
32) The table below shows how many free stickers you get when you purchase a certain number of balloons.

Number balloons	4	8	10	14	18
Number free stickers	2	4	5	7	?

What is the number of free stickers you would receive if you bought 18 balloons and why?

- F) 8 because $7 + 1 = 8$
- G) 16 because $18 - 2 = 16$.
- H) 9 because $18 \div 2 = 9$.
- J) 36 because $18 \times 2 = 36$.

33) Sharon created a number line in class that looks like the one below.



Using this number line, what is the pattern in the number line and what number does point C best represent?

- A) The pattern is decreasing by 30, and Point C is 830.
- B) The pattern is increasing by 30, and Point C is 890.
- C) The pattern is increasing by 60, and Point C is 920.
- D) The pattern is decreasing by 60, and Point C is 800.

34) The two pictographs below show the favorite Smurf's for 3rd grade and 4th grade.

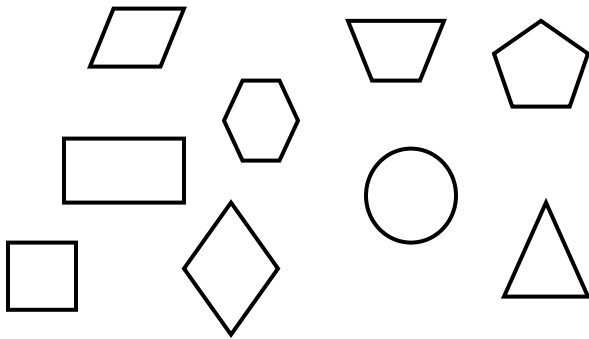
3 rd Grade Results	
Smurfette	5 ✓
Clumsy Smurf	3 ✓
Papa Smurf	3 ✓
Grumpy Smurf	1 ✓
1 ✓ = 5 votes	

4 th Grade Results	
Smurfette	4 ✓
Clumsy Smurf	2 ✓
Papa Smurf	3 ✓
Grumpy Smurf	2 ✓
1 ✓ = 5 votes	

Based on the information in the graph, how many more people in 3rd and 4th grades liked Smurfette than Papa Smurf?

- F) 75
- G) 15
- H) 10
- J) 5

35) The following shapes are in a bag on the teacher's desk.



What fraction of the shapes in the bag are quadrilaterals?

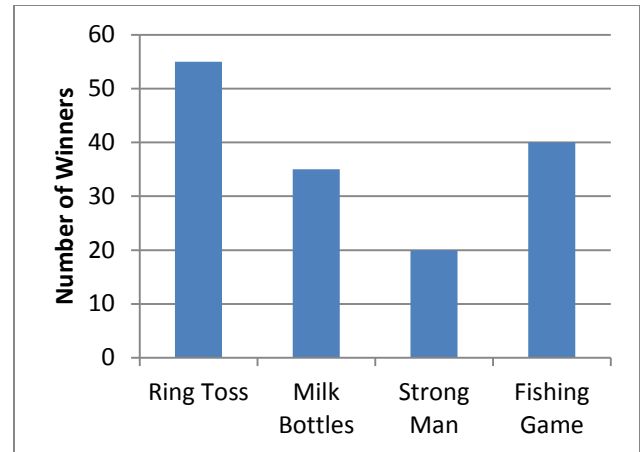
A) $\frac{4}{9}$

B) $\frac{4}{5}$

C) $\frac{5}{9}$

D) $\frac{6}{9}$

36) The bar graph below shows the number of people who won at each of the carnival games at the fair in one day.



Which of the following tables represents the data shown in the bar graph above?

F)

Ring Toss	55
Milk Bottles	35
Strong Man	20
Fishing Game	45

G)

Ring Toss	55
Milk Bottles	35
Strong Man	40
Fishing Game	20

H)

Ring Toss	55
Milk Bottles	35
Strong Man	20
Fishing Game	40

J)

Ring Toss	50
Milk Bottles	40
Strong Man	20
Fishing Game	40

37) The table below shows the number of tires on different numbers of cars. Which table correctly shows the number of tires on 7, 9, and 11 cars?

A)

Number of Cars	Total Number of Tires
7	28
9	32
11	36

B)

Number of Cars	Total Number of Tires
7	28
9	36
11	44

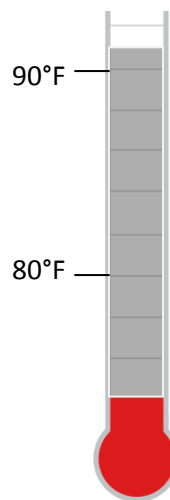
C)

Number of Cars	Total Number of Tires
7	24
9	36
11	44

D)

Number of Cars	Total Number of Tires
7	4
9	6
11	8

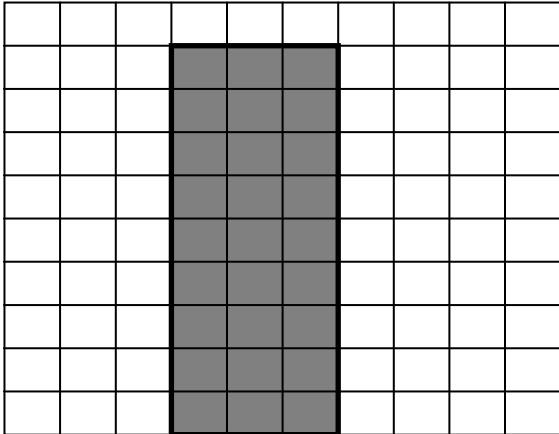
38) When the Quinn family got into their car after shopping the thermometer in their car looked like thermometer below. What was the temperature in their car?



Record your answer in the grid on your answer document.

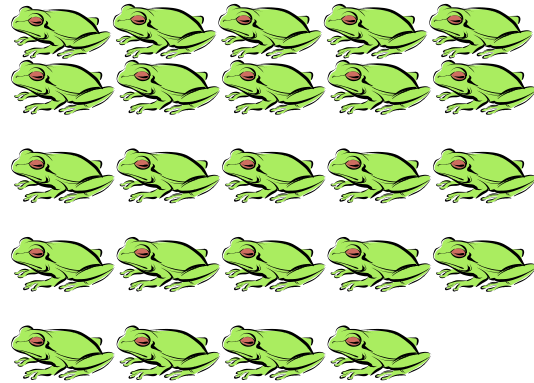
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

39) The Green family wants to make a dog run for their new lab puppy. The fence looks like the model below. What is the perimeter of the fence below?



- A) 24 units
- B) 20 units.
- C) 27 units
- D) 12 units

40) Freddy and Ingo went to catch frogs in the pond behind their house. They caught a total of 24 frogs. They could only put 8 frogs in each bucket. How many buckets did they have?



- F) 6
- G) 5
- H) 16
- J) 3

41) The pattern below shows the number of erasers in different numbers of packages.

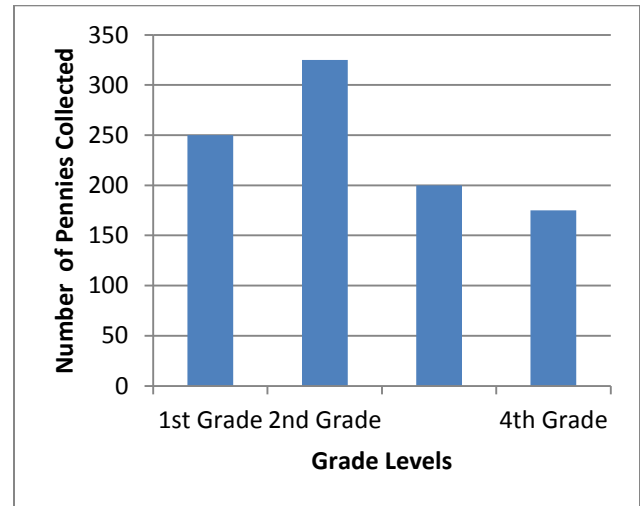
Number of packages	2	4	7	12
Total number of erasers	6	12	21	36

Which is the best description of the relationship between the number of packages and the total number of erasers?

- A) # of packages + 2 = total # of erasers
- B) # of packages \div 3 = total # of erasers
- C) # of packages \times 3 = total # of erasers
- D) # of packages + 6 = total # of erasers

42) Yolanda made the bar graph below.

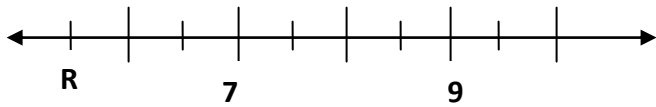
Southwood Elementary Pennies for Patients



What information is missing from the bar graph?

- F) The number of pennies collected by 2nd grade.
- G) The grade level that collected about 200 pennies.
- H) The grade level that collected 325 pennies.
- J) The axis labels.

43) Look at the number line below.



Which of the following would represent point R on the number line above?

A) $5\frac{1}{2}$

B) $4\frac{1}{2}$

C) 5

D) 6

44) There are 3 people in Michelle's family. Michelle is 5. Her sister is twice as old Michelle, and her mother is 3 times as old as her sister. How old is Michelle's mother?

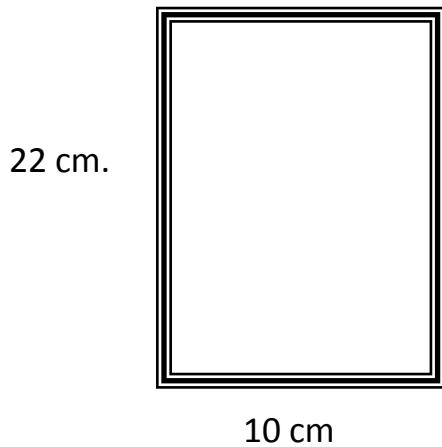
F) 15

G) 11

H) 10

J) 30

45) Teresa bought 3 picture frames to decorate with little shiny gems.

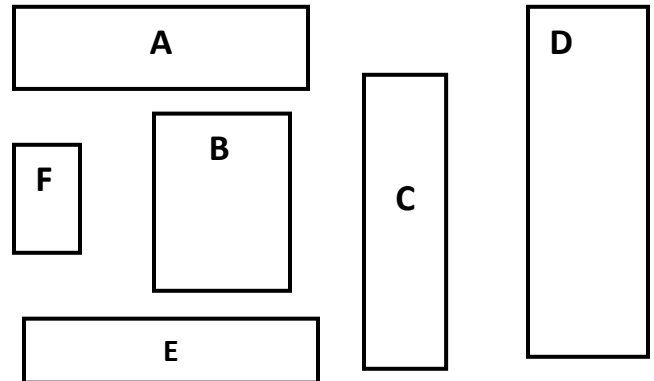


1 cm = 1 stone

If she wants to decorate the perimeter of all three frames how many total stones will she need to buy?

- A) 32 stones
- B) 64 stones
- C) 96 stones
- D) 192 stones

46) Regan drew the figures shown below.



Which of the following statements is **NOT** true about the figures?

- F) All of the figures are rectangles.
- G) Figure A and B are NOT congruent.
- H) All the figures are congruent.
- J) Figure A and C are NOT congruent.

3rd Grade - STAAR Stamina Test #2 Blueprint

Question #	TEK	Readiness or Supporting	Question Details	Answer Key
1	3.3B	R	Subtraction through 999 (table – compare)	B
2	3.6B	S	Identify patterns in multiplication facts (counting by 9's)	H
3	3.1B	S	Place Value (table – which is between with extra numbers)	D
4	3.8A	R	Identify 2D figure - pentagon	H
5	3.2C	R	Fractions of a set (name in words)	D
6	3.7B	R	Identify the pattern in table (vertical +20)	F
7	3.4B	R	Multiplication problem solving 2 x 1	A
8	3.11 A&B	R&S	Perimeter – measure in.	H
9	3.9A	S	Congruent – identify	A
10	3.1C	S	Value of collections of coins and bills	F
11	3.8A	R	Classify 3D (pyramids vs prisms)	A
12	3.5A	S	Estimation – subtraction with table	G
13	3.6A	S	Whole Number Pattern – describe the rule	D
14	3.7B	R	Describe the pattern in table (vertical x 7)	J
15	3.2C	R	Fraction of a whole (symbol)	C
16	3.11C	S	Area in square units (unshaded)	G
17	3.8A	R	Describe 2D (hexagon and vertices)	A
18	3.1A	S	Place Value – standard form (extra info)	H
19	3.11B	R	Perimeter of square (yds)	B
20	3.4B	R	Multiplication problem solving extra info.	60
21	3.13A	R	Pictograph Graph – which table matches graph (3's)	C
22	3.13C	S	Less Likely	J
23	3.7B	R	Extend a table (vertical x 5)	B
24	3.4C	R	Use models to solve division (number sentence answer)	G

25	3.8A	R	Compare 3D (square pyramid and cube – base the same)	A
26	3.12B	S	Time (in between)	J
27	3.9C	S	Symmetry (shape – which is true)	C
28	3.11B	R	Perimeter - Pentagon	F
29	3.13A	R	Pictograph & table – which key matches	A
30	3.3B	R	Add & Subtract through 999	46
31	3.3A	S	Subtraction – answer a number sentence	B
32	3.7B	R	Extend table – (horizontal division/2)	H
33	3.10A	R	Number line – whole numbers increasing (name point)	A
34	3.13B	S	Pictograph (5's – compare)	G
35	3.2A	R	Fractions – set- symbol (lots of different shapes)	C
36	3.13A	R	Bar graph – which table matches	H
37	3.7A	S	Generate a table (x4)	B
38	3.12B	S	Temperature	91
39	3.11B	R	Perimeter – square units but find perimeter – have to count	A
40	3.4C	R	Use models to solve division	J
41	3.7B	R	Describe pattern in table – horizontal x 3 (words and symbols)	C
42	3.13A	R	Bar Graph – what information is needed to complete the graph – missing label	G
43	3.10A	R	Number line – fractions halves – locate point	A
44	3.3B	R	Solve problem multiplication (multistep)	J
45	3.11B	R	Perimeter – Rectangle – find if have 3	D
46	3.9A	S	Congruent – multiple figures what is same about certain ones	H