

# 3<sup>rd</sup> Grade STAAR Math Preps (2022)

## 50 Quick Daily Math Warm-ups

**NOTE: Download to Computer. SAVE! Then and only then, PRINT! Some PDF elements only print on selected printers. This process will allow your PDF file creator to save the elements to your Adobe version.**

*An easy diagnostic and preparatory resource*

**Student Name:** \_\_\_\_\_

**Teacher Name:** \_\_\_\_\_

# 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> Grade SPRING STAAR Mathematics Preps

## *Recommended Use and Guidelines:*

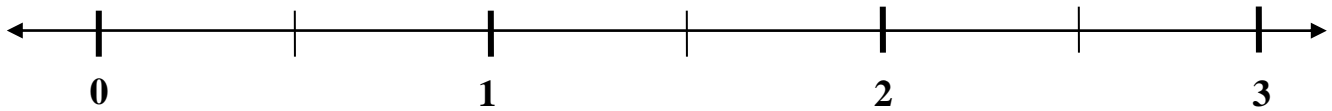
- 1.) Save the file to PDF format to your computer and print practice sheets from your computer. Google Chrome does not allow all embedded images to print without saving the document to your computer. However, your PDF Adobe program allows all symbols to print in the document.
- 2.) These prep exercises were written for STAAR assessments, but they will be highly beneficial for other state assessments that use CCSS or other States' standards system. These prep exercises will reinforce student learning with a good conceptual understanding as well as an application process.
- 3.) Each prep exercise may be used as a diagnostic tool. When students struggle with particular problem types, it is abundantly clear that students need more practice – not less. Students with grade level skills can complete each of the 50 preparatory exercises in 10 to 15 minutes, maximum.
- 4.) If students struggle on differing problem types, use the Formative Loop Mathematics “Resources” library for examples of similar problems to provide students’ additional practice. The library also includes almost all grade level skills of all grades from first grade through eighth grade. Thus, a typical classroom teacher can access their grade level or prior grade level resource sheets, in the event there is a student need. This saves the teacher preparation time and directly provides the intervention the student requires.
- 5.) Therefore, assuming students are struggling with an area or perimeter concept, provide 2 to 3 additional problems during a spaced repetition session prior to the core lesson each day until the concept or application is soundly mastered. If students have NOT mastered dependent skills in both math fact and math processing skills, consider numeracy programs like Formative Loop to ensure that ALL students possess the grade level math skills in both facts and processing skills.
- 6.) High student accountability is recommended to maximize the use of these preparatory exercises. Individual checking of student work is more consuming; however, it is recommended that the teacher check students’ work in real time by walking around and checking the problem. This process has many advantages: it presses students to quickly complete the work – saving traditional checking time when all students finish an independent assignment. It also allows the teacher to understand their students on an individual level and troubleshoot issues in real time. Finally, students should complete these exercises individually, and not in groups, and it is recommended that these preps be completed in class – and not sent for homework.
- 7.) Many States have adopted standardized testing formats that offer only a digital online assessment format. However, it is recommended that students learn a fundamental and replicable problem-solving methodology using paper-pencil methodology, first. After a couple months of practice, students ingrain a structured system of problem solving. Furthermore, this method could be any structured system – for instance: **RACE**: Read the problem. All needed information circled. Computations. Evaluate your solution’s reasonableness. Students write the word ‘RACE’ in the margin next to the problem and check off the letter as they complete that procedure while solving the problem. Then, students naturally use and develop a problem-solving method, and more importantly, the process affords teachers a controllable learning process to tweak any small issues with a sound structure firmly in place.

Finally, when students begin practicing for an on-line digital format, it is much easier for students to transition from a set structure to a new computer-based format system. The students are only learning how to use a digital format to solve problems – only one new aspect since they are already sound paper-pencil problem solvers. **Note:** Change one pedagogical medium at a time to control the digital on-line process!

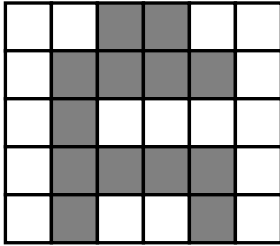
Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 1

- 1.) Fill out the number line...all **proper fractions** and **mixed numbers**. Circle the point on the number line where the mixed number  $2\frac{1}{2}$  is located.

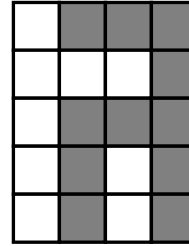


- 2.) Calculate the area in square units of each shaded figure below.



☐ = 1 square unit

- a.) 10
- b.) 12
- c.) 13
- d.) 15



☐ = 1 square unit

- f.) 10
- g.) 11
- h.) 12
- j.) not here

- 3.) Melanie made 3 gallons of lemonade for her birthday party. There are 8 pints in each gallon of lemonade. Which expression is in the same fact family as  $3 \times 8 = 24$  ?

- a.)  $24 \times 3$
- b.)  $8 - 3$
- c.)  $24 \div 8$
- d.)  $8 + 3$

- 4.) Adolfo has a number of baskets with different numbers of apples in each basket. The table below shows the total number of apples in each basket.

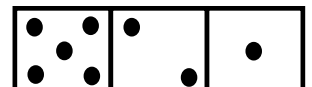
Number of Baskets	Total Number of Apples in the Baskets
2	6
6	18
9	
11	33
16	48

If there is the same number of apples in each basket, what is one way to find the total number of apples in 9 baskets?

- f.) Find the product of 18 and 9
- g.) Find the difference of 11 and 8
- h.) Find the sum of 3 and 9
- j.) Find the product of 3 and 9

- 5.) The dominos shown on the right make a number. Is the number even or odd?

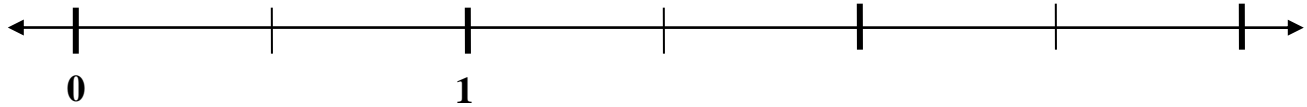
- a.) odd
- b.) even
- c.) can't tell
- d.) 521



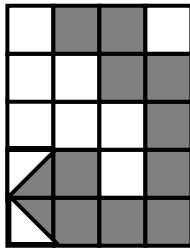
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3<sup>rd</sup> Grade Math STAAR Warm-up Number 2

- 1.) Fill out the number line...all **proper fractions**, **whole numbers** and **mixed numbers**. Circle the point on the number line where the mixed number  $2\frac{1}{2}$  is located.

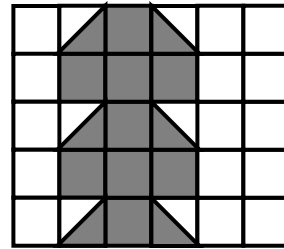



- 2.) Calculate the area in square units of each shaded figure below.



 = 1 square unit

- a.) 5
- b.) 11
- c.) 12
- d.) 14



 = 1 square unit

- f.) 5
- g.) 8
- h.) 12
- j.) 15

- 3.) John made 4 gallons of lemonade for his friends. There are 8 pints in each gallon of lemonade. Which expression is in the same fact family as  $4 \times 8 = 32$  ?

- a.)  $32 \times 4$
- b.)  $8 - 4$
- c.)  $32 \div 8$
- d.)  $8 + 4$

- 4.) The table below shows the number of children in different classrooms.

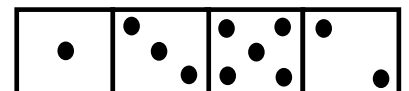
Number of Classrooms	Total Number of Children in the Classrooms
3	12
4	16
9	
11	44
16	64

If there is the same number of children in each classroom, what is one way to find the total number of children in 9 classrooms?

- f.) Find the product of 16 and 9
- g.) Find the sum of 3 and 9
- h.) Find the difference of 11 and 9
- j.) Find the product of 4 and 9

- 5.) The dominos shown on the right make a number. Is the number even or odd?

- a.) odd
- b.) even
- c.) can't tell
- d.) 1,352

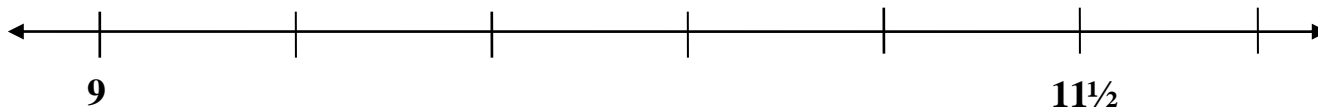




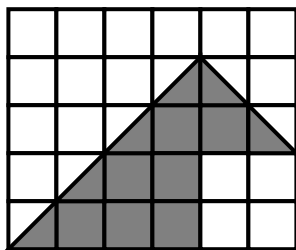
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
**3<sup>rd</sup> Grade Math STAAR Warm-up Number 3**

- 1.) Fill out the number line with **whole numbers** and **mixed numbers**. Circle the point on the number line where the whole number **10** is located.

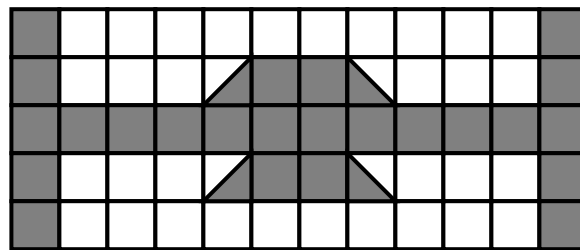



- 2.) Calculate the area in square units of each shaded figure below.



 = 1 square unit

- a.) 10  
b.) 13  
c.)  $13\frac{1}{2}$   
d.) 14



 = 1 square unit

- f.) 20  
g.) 24  
h.) 26  
j.)  $30\frac{1}{2}$

- 3.) Priscilla likes numbers. Today she has chosen 11, 5 and 6. Which expression is in the same fact family as the three numbers that Priscilla chose?

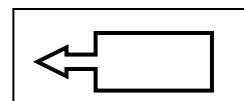
- a.)  $5 \times 6 = 11$       b.)  $6 - 5 = 1$       c.)  $11 - 5 = 6$       d.)  $11 \div 6 = 5$


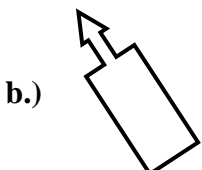


- 4.) Find the missing number in the table.

Boys	Total Books the Boys read over Spring Break
2	6
4	8
8	12
9	
13	17

- f.) 13      g.) 14      h.) 18      j.) 27

- 5.) Which figure below is congruent to the figure shown in the box to the right?

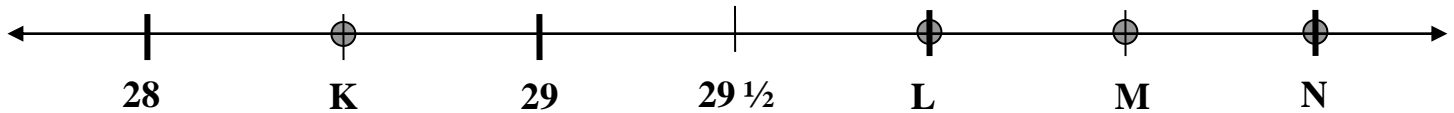


- a.)       b.)       c.)       d.) 

Name: \_\_\_\_\_

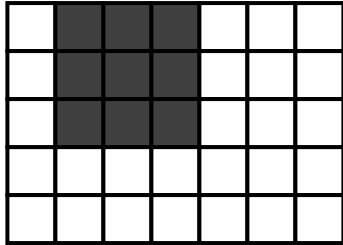
3<sup>rd</sup> Grade Math **STAAR Warm-up Number 4**

- 1.) Which point best represents  $30\frac{1}{2}$  on the number line below?

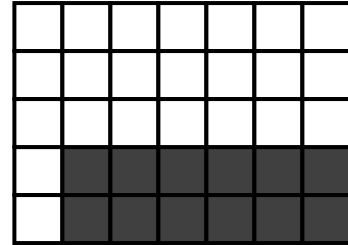


- a.) Point K      b.) Point L      c.) Point M      d.) Point N

- 2.) Calculate the **Sum** of the two areas in square units of both shaded figures shown below.



= 1 square unit

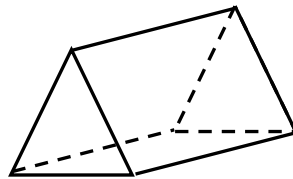


- f.) 8      g.) 12      h.) 18      j.) 21

- 3.) Obdeja has piano practice 5 times each month. Each practice lasts 3 hours. What is the total number of hours that Obdeja will practice on the piano in 4 months?

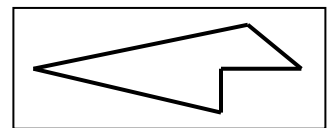
- a.) 12      b.) 20      c.) 15      d.) 60

- 4.) A three-dimensional figure called a triangular prism is shown below. How many vertices does this figure have?

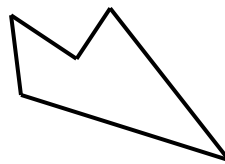
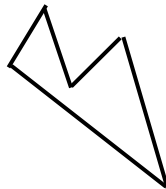
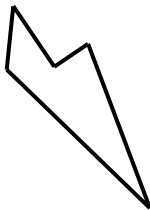


- f.) 5      g.) 9      h.) 6      j.) 12

- 5.) Which figure is congruent to this figure shown in the box?



- a.)      b.)      c.)      d.)



- 6.) How is the number 3,043 written in expanded form?

- f.)  $3,000 + 3$       g.)  $300 + 40 + 3$       h.)  $3,000 + 400 + 3$       j.)  $3,000 + 40 + 3$

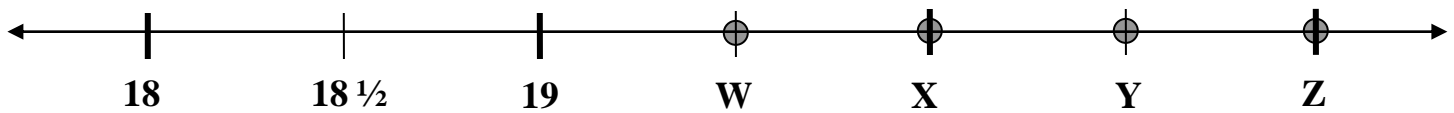
- 7.) Hubert's favorite number is ninety thousand two hundred fifty-one. What is the number in standard place value form or number form?

- a.) 92,251      b.) 90,215      c.) 90,251      d.) 9,251

Name: \_\_\_\_\_

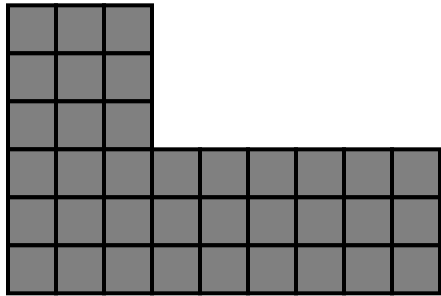
3<sup>rd</sup> Grade Math STAAR Warm-up Number 5


- 1.) Which point best represents  $20\frac{1}{2}$  on the number line below?

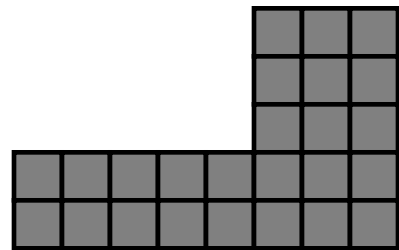


- a.) Point W      b.) Point X      c.) Point Y      d.) Point Z

- 2.) Calculate the area in square units of each shaded figure shown below.



 = 1 square unit



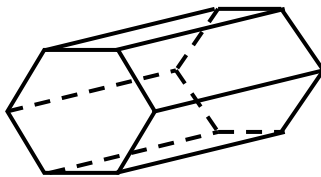
- a.) 40  
b.) 36  
c.)  $43\frac{1}{2}$   
d.) 35

- f.) 25  
g.) 27  
h.) 24  
j.)  $26\frac{1}{2}$

- 3.) Three numbers are chosen from a bag. The three numbers chosen are 4, 36 and 9. Which expression is in the same fact family as those numbers?

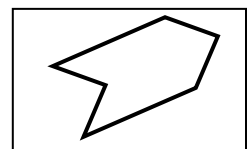
- a.)  $8 \times 4$       b.)  $36 - 9$       c.)  $9 + 4$       d.)  $36 \div 9$

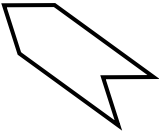
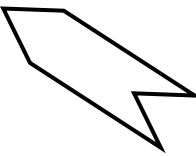
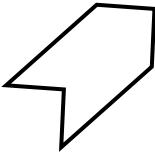
- 4.) A three-dimensional figure called a hexagonal prism is shown below. How many vertices does this figure have?



- f.) 8      g.) 12      h.) 18      j.) 24

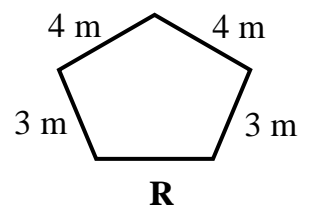
- 5.) Which figure is congruent to this figure shown in the box to the right?



- a.)       b.)       c.)       d.) Not Here

- 6.) The pentagon to the right has a perimeter of 20 meters.

Calculate or find the length of side 'R' of the pentagon.

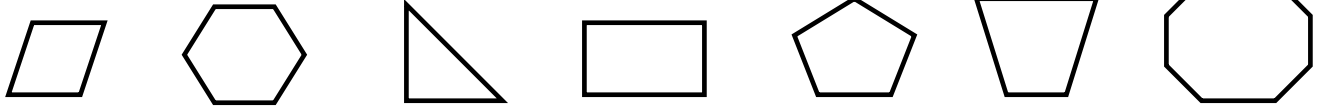


- f.) 4 meters      g.) 6 meters      h.) 12 meters      j.) 34 meters

Name: \_\_\_\_\_

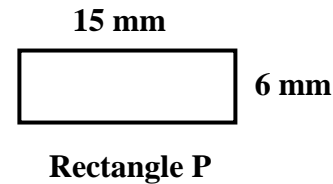
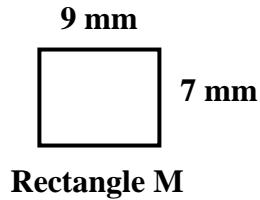
3<sup>rd</sup> Grade Math STAAR Warm-up Number 6

- 1.) Which is a true statement about the figures shown below?

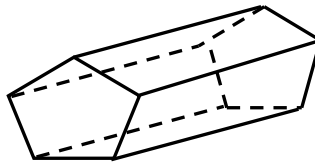


- a.) All shapes are quadrilaterals  
b.) All shapes are circles  
c.) All shapes are hexagons  
d.) All shapes are polygons

- 2.) The dimensions of two rectangles M and P are shown below.

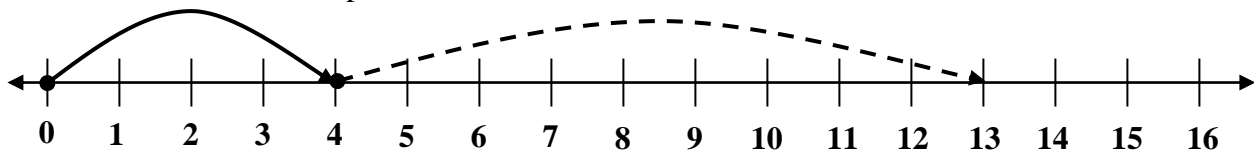


- f.) The perimeter of Rectangle M is 5 millimeters less than the perimeter of Rectangle P  
g.) The perimeter of Rectangle M is 10 millimeters less than the perimeter of Rectangle P  
h.) The perimeter of Rectangle M is 3 millimeters less than the perimeter of Rectangle P  
j.) The perimeter of Rectangle M is 41 millimeters less than the perimeter of Rectangle P
- 3.) Katie has 4 bags of candy that have 12 pieces of candy in each bag. Brenda has 5 bags of candy with 15 candy pieces in each bag. What is the difference in candy pieces between Katie's and Brenda's bags?
- a.) 33                      b.) 45                      c.) 123                      d.) 27
- 4.) A three-dimensional figure called a pentagonal prism is shown below. How many edges does this figure have?



- f.) 7                      g.) 10                      h.) 15                      j.) 24

- 5.) Which number sentence is represented on the number line shown below?



- a.)  $4 \times 13 = 52$                       b.)  $13 - 4 = 9$                       c.)  $4 + 9 = 13$                       d.)  $13 \div 4 = 9$

- 6.) Timothy sold the following number of glasses of lemonade over 3 days in July.

- ☐ On July 3<sup>rd</sup>, he sold 34 glasses of lemonade  
☐ On July 4<sup>th</sup>, he sold 78 glasses of lemonade  
☐ On July 5<sup>th</sup>, he sold 23 glasses of lemonade

How many glasses of lemonade did Timothy sell during the 3 days in July?

- f.) 234                      g.) 456                      h.) 125                      j.) 135

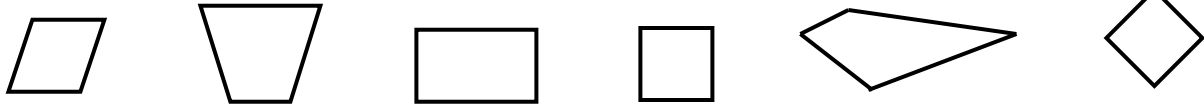
- 7.) What is the sum of the hundreds and ten thousands digits in the following number: 36,401

- a.) 5                      b.) 7                      c.) 10                      d.) 9

Name: \_\_\_\_\_

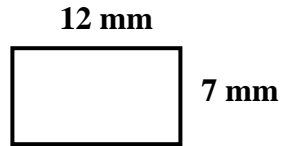
3<sup>rd</sup> Grade Math STAAR Warm-up Number 7

- 1.) Which is a true statement about the figures shown below?

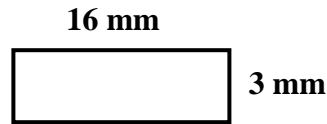


- a.) All shapes are quadrilaterals  
b.) All shapes are circles  
c.) All shapes are hexagons  
d.) All shapes are rectangles

- 2.) The dimensions of two rectangles are shown below.



Rectangle X

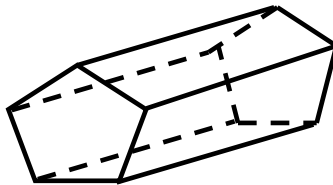


Rectangle Y

- f.) The perimeter of Rectangle X is 12 millimeters less than the perimeter of Rectangle Y  
g.) The perimeter of Rectangle X is 3 millimeters more than the perimeter of Rectangle Y  
h.) The perimeter of Rectangle X is 9 millimeters less than the perimeter of Rectangle Y  
j.) The perimeter of Rectangle X is equal to the perimeter of Rectangle Y
- 3.) Jesus has 5 bags of candy that have 11 pieces of candy in each bag. Betty has 7 bags of candy with 20 candy pieces in each bag. What is the sum of candy pieces in Jesus' and Betty's bags?

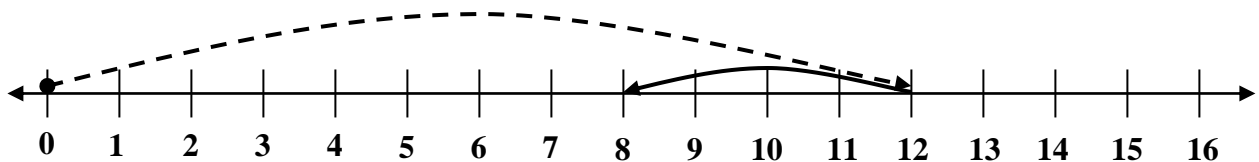
- a.) 55                      b.) 43                      c.) 195                      d.) 140

- 4.) A three-dimensional figure called a pentagonal prism is shown below. How many faces does this figure have?



- f.) 7                      g.) 10                      h.) 15                      j.) 24

- 5.) Which number sentence is represented on the number line shown below?



- a.)  $4 + 12 = 16$                       b.)  $12 - 4 = 8$                       c.)  $4 + 8 = 12$                       d.)  $12 \times 4 = 48$

- 6.) Griselda counted cars for three days last week by her house. The number of cars she counted is listed below.

- ☐ On Tuesday, she counted 38 cars  
☐ On Wednesday, she counted 53 cars  
☐ On Friday, she counted 64 cars

What was the difference of cars she counted on Friday than on Tuesday?

- f.) 11                      g.) 26                      h.) 15                      j.) 155

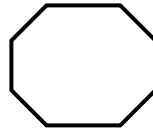
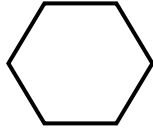
- 7.) What is  $40,000 + 2,000 + 10 + 9$  in standard place value form?

- a.) 4,219                      b.) 42,291                      c.) 42,019                      d.) 420,219

Name: \_\_\_\_\_

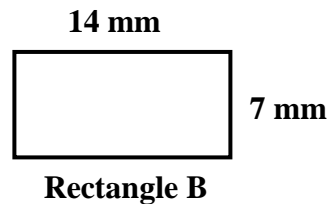
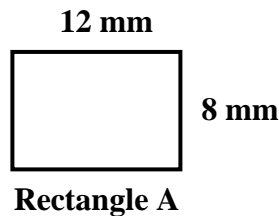
**3<sup>rd</sup> Grade Math STAAR Warm-up Number 8**

- 1.) Which is a true statement about the two figures shown below?



- a.) One figure is a hexagon and the other is an octagon  
b.) One figure is a pentagon and the other a hexagon  
c.) Both figures are pentagons  
d.) Both figures have 6 sides

- 2.) The dimensions of two rectangles are shown below.



Which statement below is true?

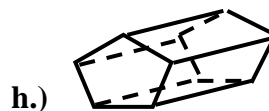
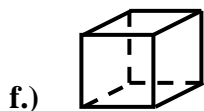
- f.) The perimeter of Rectangle A is 108 millimeters (mm).  
g.) The perimeter of Rectangle A is 42 millimeters (mm).  
h.) The perimeter of Rectangle A is 40 mm and the perimeter of Rectangle B is 42 mm.  
j.) The perimeter of Rectangle A is 12 millimeters (mm) more than Rectangle B.

- 3.) Jessica wrote down a list of numbers: **14, 22, 30, 38, 46**

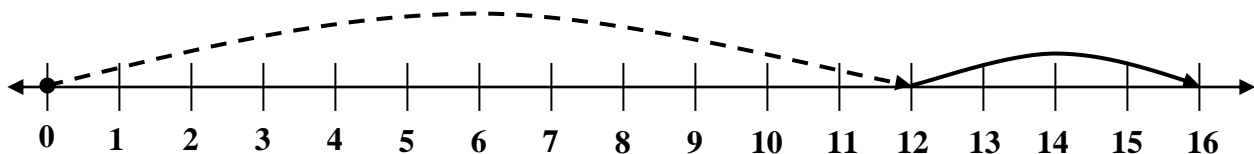
Which number would fit in Jessica's pattern of numbers?

- a.) 66                      b.) 55                      c.) 62                      d.) 43

- 4.) Which three dimensional figure below has exactly 6 vertices?



- 5.) Which number sentence is represented on the number line shown below?



- a.)  $4 + 12 = 16$               b.)  $12 - 4 = 8$               c.)  $4 + 8 = 12$               d.)  $12 \times 4 = 48$

- 6.) The Graham Elementary Garden Club harvested all the carrots, pumpkins, and potatoes in their garden.

- ☐ 341 carrots were collected from the garden.  
☐ 258 pumpkins were collected from the garden.  
☐ 485 potatoes were collected from the garden.

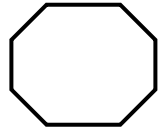
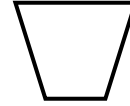
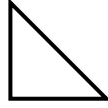
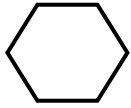
Which expression is the best way to estimate the difference between the number of carrots and the number of potatoes collected from the Graham Elementary Garden?

- f.)  $340 + 490$               g.)  $340 - 260$               h.)  $490 - 340$               j.)  $480 - 340$

Name: \_\_\_\_\_

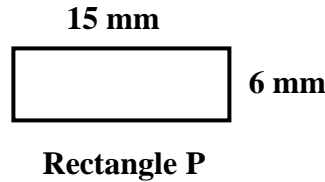
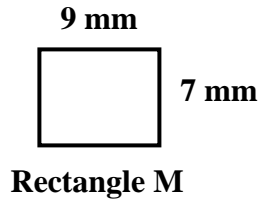
3<sup>rd</sup> Grade Math STAAR Warm-up Number 9

- 1.) Which is a true statement about these figures shown below?



- a.) All shapes are quadrilaterals  
b.) All shapes are polygons  
c.) All shapes are pentagons  
d.) All shapes are hexagons

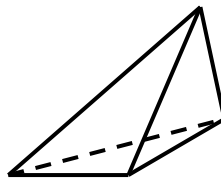
- 2.) The dimensions of two rectangles are shown below.



- f.) The area of Rectangle M is 15 square millimeters less than the area of Rectangle P  
g.) The area of Rectangle M is 63 square millimeters less than the area of Rectangle P  
h.) The area of Rectangle M is 27 square millimeters less than the area of Rectangle P  
j.) The area of Rectangle M is 90 square millimeters less than the area of Rectangle P
- 3.) Lisa loves numbers. Her favorite number has a 3 in the hundreds place and a 5 in the thousands place. Which number below has a 3 in the hundreds place and a 5 in the thousands place?

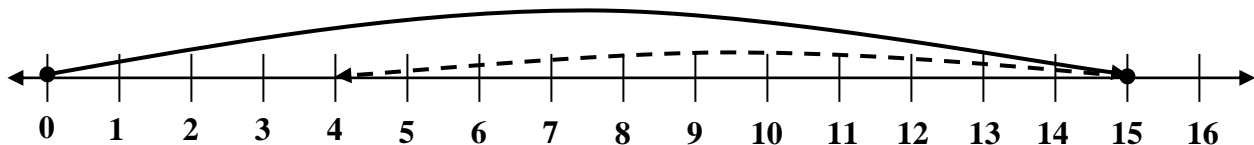
- a.) 215,431      b.) 433,531      c.) 345,309      d.) 891,350

- 4.) A three-dimensional figure called a triangular pyramid is shown below. How many vertices does this space figure have?



- f.) 6      g.) 10      h.) 6      j.) 4

- 5.) Which number sentence is represented on the number line shown below?



- a.)  $15 \times 4 = 60$       b.)  $15 - 11 = 4$       c.)  $4 + 11 = 15$       d.)  $15 \div 11 = 4$

- 6.) Camille sold the following number of glasses of punch over 3 days in August.

- ☐ On August 6<sup>th</sup>, he sold 34 glasses of punch
- ☐ On August 7<sup>th</sup>, he sold 78 glasses of punch
- ☐ On August 8<sup>th</sup>, he sold 23 glasses of punch

How many glasses of punch did she sell on August 7<sup>th</sup> and August 8<sup>th</sup>?

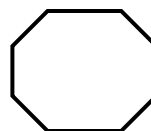
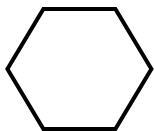
- f.) 112      g.) 111      h.) 122      j.) not here

- 7.) Sum the following fractions:  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$

- a.)  $\frac{3}{12}$       b.)  $\frac{3}{4}$       c.)  $\frac{4}{3}$       d.) not here

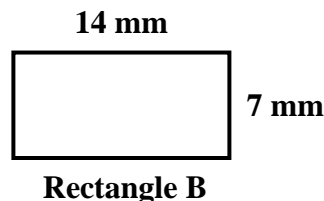
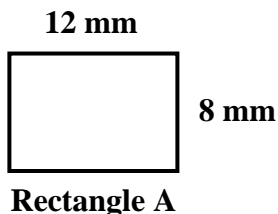
Name: \_\_\_\_\_

- 1.) Which is a true statement about the two figures shown below?



- a.) One figure has 2 more sides than the other  
b.) One figure is a hexagon  
c.) One figure is an octagon  
d.) All statements are true about the two figures

- 2.) The dimensions of two rectangles A and B are shown below.

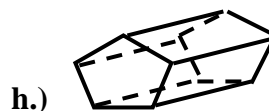
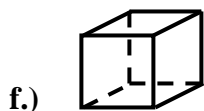


Which statement below is true?

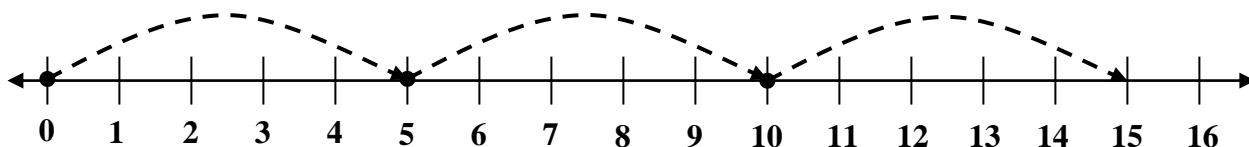
- f.) The perimeter of Rectangle B is 108 millimeters.  
g.) The perimeter of Rectangle B is 42 millimeters.  
h.) The perimeter of Rectangle B is 40 millimeters.  
j.) The perimeter of Rectangle B is 96 millimeters.
- 3.) Priscilla wrote down a list of numbers: **25, 50, 75, 100, 125**
- Which number would fit Priscilla's pattern of numbers? (careful)

- a.) 175                      b.) 155                      c.) 215                      d.) 195

- 4.) Which three dimensional figure below has exactly 6 faces?



- 5.) Which number sentence is represented on the number line shown below?



- a.)  $3 + 12 = 15$                       b.)  $12 - 3 = 15$                       c.)  $10 + 5 = 15$                       d.)  $5 \times 3 = 15$

- 6.) The Graham Elementary Garden Club harvested carrots, pumpkins and potatoes from their garden.
- ☐ 241 carrots were collected from the garden.
  - ☐ 255 pumpkins were collected from the garden.
  - ☐ 489 potatoes were collected from the garden.

Which expression is the best way to estimate the sum of the number of carrots and the number of pumpkins collected from the Graham Elementary Garden?

- f.)  $250 + 240$                       g.)  $260 - 240$                       h.)  $260 + 240$                       j.)  $490 - 240$



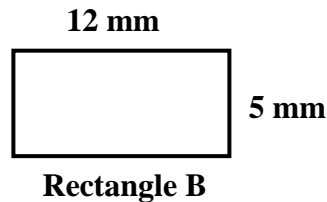
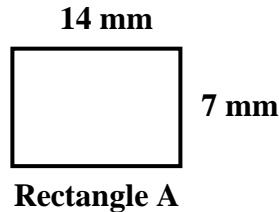
Name: \_\_\_\_\_

**3<sup>rd</sup> Grade Math STAAR Warm-up Number 11**

- 1.) John has 3 bags of rocks with 13 rocks each. He also has 6 bags of rocks with 12 rocks each. What is the total number of rocks in the 9 bags?

a.) 72  
b.) 111  
c.) 39  
d.) 101

- 2.) The dimensions of two rectangles are shown below.



Which statement below is true?

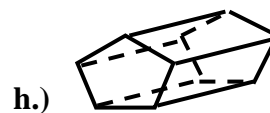
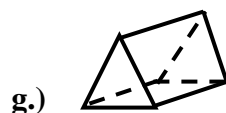
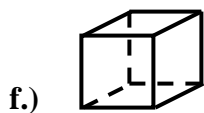
- f.) The sum of the perimeters of both Rectangle A and Rectangle B is 108 millimeters.  
g.) The sum of the perimeters of both Rectangle A and Rectangle B is 34 millimeters.  
h.) The sum of the perimeters of both Rectangle A and Rectangle B is 76 millimeters.  
j.) The sum of the perimeters of both Rectangle A and Rectangle B is 42 millimeters.

- 3.) Jesus and Kevin listed out some numbers: **4, 11, 18, 25, 32**

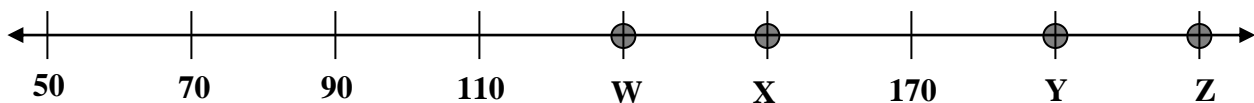
Which number would fit Jesus' and Kevin's pattern of numbers?

a.) 44  
b.) 54  
c.) 53  
d.) 57

- 4.) Which three dimensional figure below has exactly 7 faces?



- 5.) Which point best represents 190 on the number line?



a.) Point W  
b.) Point X  
c.) Point Y  
d.) Point Z

- 6.) Jill arranged 18 glasses on 2 shelves in her mother's house. There will be an equal number of glasses on each of the two shelves.



How many glasses will be on each shelf?

- f.) 36, because  $18 \times 2 = 36$   
g.) 9, because  $18 \div 2 = 9$   
h.) 20, because  $18 + 2 = 20$   
j.) 16, because  $18 - 2 = 16$

- 7.) Andreas shaded part of a figure as shown to the right. What fraction of the figure is shaded?

a.)  $\frac{4}{6}$   
b.)  $\frac{6}{2}$   
c.)  $\frac{2}{6}$   
d.) not here

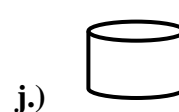


### 3<sup>rd</sup> Grade Math STAAR Warm-up Number 12

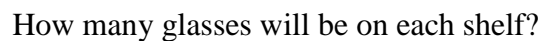
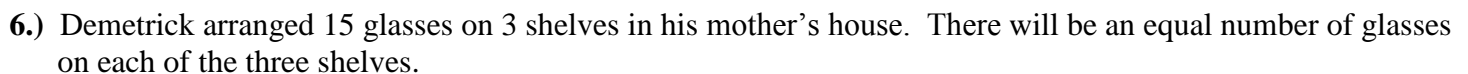
- 2.) The table below shows the total number of letters with different numbers of stamps.

Each letter has the same number of stamps. What is the total number of stamps on 7 letters?

- 4.) Which three dimensional figure below has exactly 9 edges?



- 5.) Which number best represents point X on the number line below?



- 7.) Andreas shaded part of a figure as shown to the right. What fraction of the figure is NOT shaded?

- Available at Formative Loop**





Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math **STAAR Warm-up Number 15**

- 1.) Christopher collects rocks when he goes for walks with his mother each night. He has a total of 846 rocks in his collection. On Sunday, he gave his sister 378 rocks. How many rocks are in his rock collection after he gave his sister the 378 rocks?

- a.) 1,224                                      c.) 578  
b.) 468                                        d.) 533

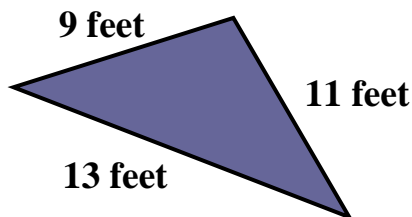
- 2.) The left column is the ‘IN’ column, and the right column is the ‘OUT’ column.

**What comes OUT?**

IN	OUT
13	3
16	6
17	7
22	12
29	19

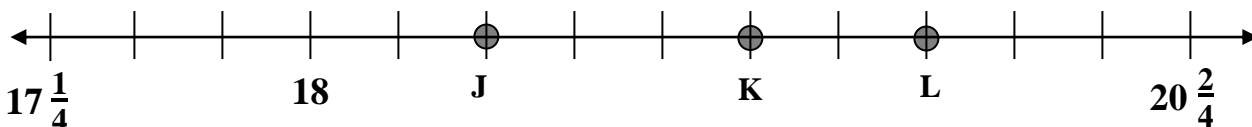
Based on this pattern, if 36 is placed in the “IN” column, what number is in the “OUT” column?

- a.) 16                                      b.) 6                                      c.) 26                                      d.) 36
- 3.) The sides of a triangular garden are shown to the right.

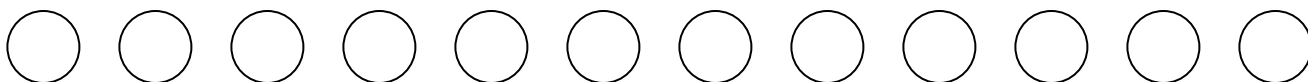


Jose is going to place rocks around the outside edge of the garden. He has 35 feet of rock. Will there be enough feet of rock to go completely around his triangular garden?

- f.) Yes, because  $11 + 13 + 9 = 33$  and  $33 < 35$   
g.) No, because  $9 + 11 + 13 = 32$  and  $32 > 35$   
h.) Yes, because  $9 \times 11 = 99$  and  $99 > 35$   
j.) Not possible
- 4.) Which number best represents point L on the number line below?



- a.) 19                                      b.)  $19\frac{1}{4}$                                       c.)  $19\frac{3}{4}$                                       d.)  $19\frac{2}{4}$
- 5.) Jessi placed some bottle caps into rows. She placed the caps in 6 rows. Each row had the same number of bottle caps. One of the rows of bottle caps is shown below.



How many bottle caps did Jessi place in the 6 rows?

- h.) 12                                      i.) 18                                      j.) 72                                      k.) 102

Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math **STAAR Warm-up Number 16**

- 1.) Anabel has 14 packages of candy that each contain 6 pieces. Anabel gives 20 pieces of candy to her friend, Jose. Which number sentence shows a way to find the number of pieces of candy that Anabel has left?

a.)  $14 \times 6 + 20 = 104$

c.)  $14 + 6 + 20 = 40$

b.)  $14 \times 6 - 20 = 64$

d.)  $6 \times 14 + 6 = 90$

- 2.) The left column is the 'IN' column, and the right column is the 'OUT' column.

**What comes OUT?**

IN	OUT
11	3
14	6
15	7
20	12
27	19

Based on this pattern, if 42 is placed in the "IN" column, what number is in the "OUT" column?

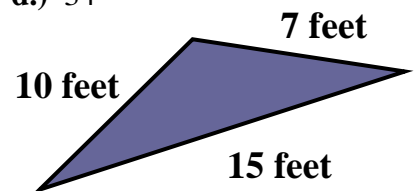
a.) 16

b.) 6

c.) 26

d.) 34

- 3.) The sides of a triangular garden are shown to the right.



Yasmin is going to place rocks around the outside edge of the garden. She has 30 feet of rock. Will there be enough feet of rock to go completely around her triangular garden?

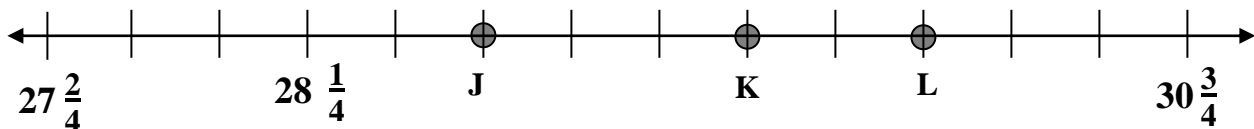
f.) Yes, because  $15 + 10 + 7 = 32$  and  $32 < 30$

h.) Yes, because  $7 \times 10 = 70$  and  $70 > 30$

g.) No, because  $7 + 10 + 15 = 32$  and  $32 > 30$

j.) Not possible

- 4.) Which point best represents point K on the number line below?



a.) 29

b.)  $29\frac{1}{4}$

c.)  $29\frac{3}{4}$

d.)  $29\frac{2}{4}$

- 5.) Elena placed some marbles into rows. She placed the marbles in 3 rows. Each row had the same number of marbles. One of the rows of marbles is shown below.



How many marbles did Elena place in the 3 rows?

h.) 9

i.) 27

j.) 11

k.) 102

- 6.) Sergio wrote the following number on the classroom white board: **49,023**.

Which is the correct way to write Sergio's number in base 10 expanded notation?

a.)  $(4 \times 10,000) + (9 \times 100) + (2 \times 10) + (3 \times 1)$

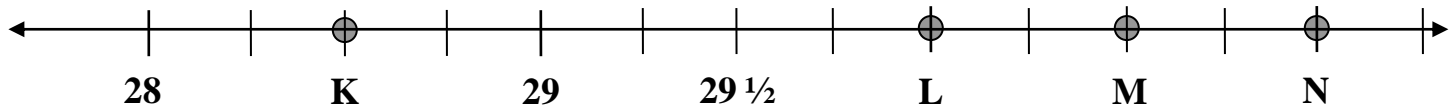
c.)  $(49 \times 10,000) + (2 \times 10) + (3 \times 1)$

b.)  $(4 \times 10,000) + (9 \times 1,000) + (2 \times 10) + (3 \times 1)$

d.)  $(4 \times 10,000) + (9 \times 1,000) + (2 \times 100) + (3 \times 1)$

Name: \_\_\_\_\_

1.) Which point best represents 30 on the number line below?



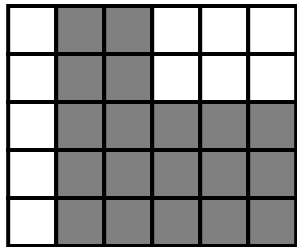
a.) Point K


b.) Point L

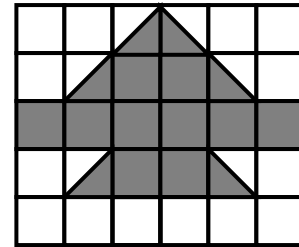
c.) Point M

d.) Point N

2.) Calculate the difference of the two areas in square units of both shaded figures shown below.



 = 1 square unit



f.) 4

g.) 6

h.) 18

j.) 24

3.) Jacqueline counted students in three 5<sup>th</sup> grade classes at Garcia Elementary. The number of children she counted in each class is listed below.

- In Ms. Cook's class, she counted 19 students
- In Ms. Aleman's class, she counted 26 students
- In Ms. Valencia's class, she counted 25 students

What was the sum of students in Ms. Cook's class and Ms. Valencia's class?

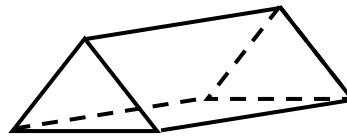
a.) 1

b.) 6

c.) 44

d.) 51

4.) A three-dimensional figure called a triangular prism is shown below. How many faces does this figure have?



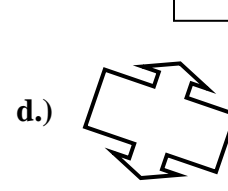
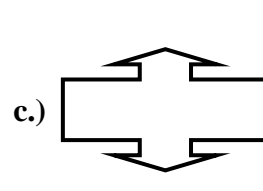
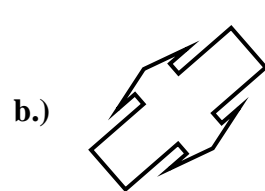
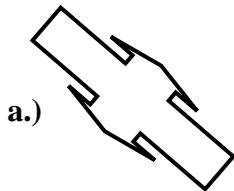
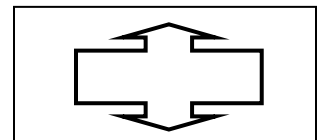
f.) 5

g.) 9

h.) 6

j.) Not here

5.) Which figure is congruent to this figure shown in the box?



6.) How is the number 4,078 written in expanded form?

f.) 4,000 + 8

g.) 400 + 70 + 8

h.) 4,000 + 700 + 8

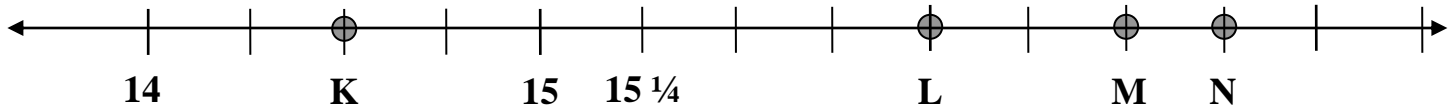
j.) 4,000 + 70 + 8

7.) Which statement about the number 8,888 is true?

- a.) There is an 8 in the tens place, so 8 times 10 equals 8.
- b.) There is an 8 in the hundreds place, so 8 times 100 equals 80.
- c.) There is an 8 in the hundreds place, so 8 times 100 equals 800.
- d.) There is an 8 in the thousands place, so 8 times 1,000 equals 80,000.

Name: \_\_\_\_\_

1.) Which point best represents  $16\frac{3}{4}$  on the number line below?



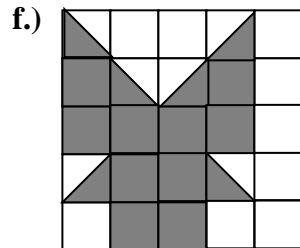
a.) Point K

b.) Point L

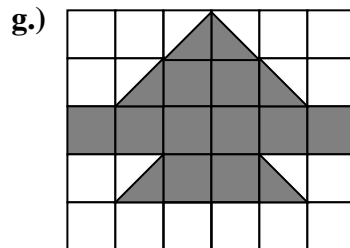
c.) Point M

d.) Point N

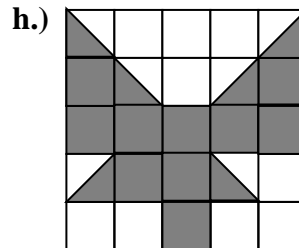
2.) Which of the following shaded figures below does **NOT** have an area of 13 square units?



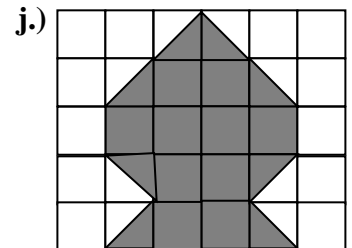
= 1 square unit



= 1 square unit



= 1 square unit



= 1 square unit

3.) David counted students in three different grade levels at Perez Elementary. The number of children she counted in each grade level is listed below.

- ☐ In 3<sup>rd</sup> grade, she counted 165 students
- ☐ In 4<sup>th</sup> grade, she counted 126 students
- ☐ In 5<sup>th</sup> grade, she counted 139 students

What was the difference of students between the 3<sup>rd</sup> grade and 5<sup>th</sup> grade?

a.) 304

b.) 255

c.) 39

d.) 26

4.) How is the number 5,967 written in expanded form?

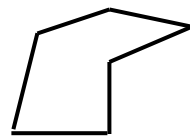
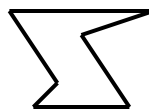
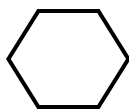
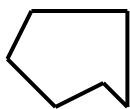
f.)  $5,000 + 900 + 60 + 7$

g.)  $5,900 + 60 + 7$

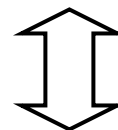
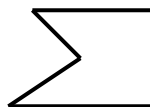
h.)  $5,000 + 900 + 7$

j.)  $5,000 + 600 + 90 + 7$

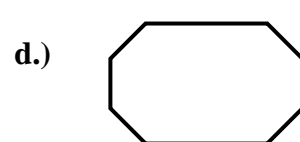
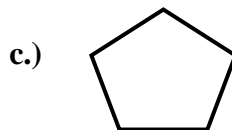
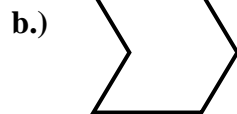
5.) Latrese drew these figures and called them *kezas*.



These figures are not *kezas*.



Which figure below is a *keza*?



6.) The number to the right is either even or odd, **AND** may be written in expanded notation. 308  
Which answer choice below provides both correctly?

f.) even –  $(300 + 80)$

g.) odd –  $(300 + 8)$

h.) even –  $(30 + 8)$

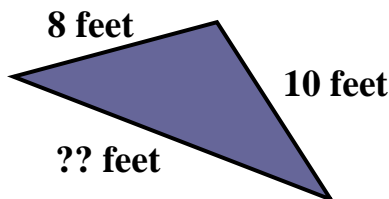
j.) even –  $(300 + 8)$



Name: \_\_\_\_\_

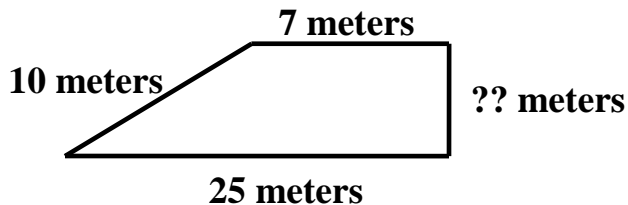
3<sup>rd</sup> Grade Math STAAR Warm-up Number 19

- 1.) Find the missing side of each polygon (a triangle and a trapezoid) if the perimeter is provided.



Triangle's perimeter = 30 feet

- a.) 60      c.) 13  
b.) 48      d.) 12



Trapezoid's perimeter = 46 meters

- f.) 2      h.) 4  
g.) 3      j.) 5

- 2.) Miguel wanted to make orange juice for his family for breakfast. He made 12 pints of juice and there are 2 cups in each pint. Which expression is in the same fact family as  $2 \times 12 = 24$ ?

- a.)  $24 \times 2$       b.)  $24 - 2$       c.)  $24 \div 12$       d.)  $12 + 24$

- 3.) The table below shows the number of children in different classrooms.

Number of Classrooms	Total Number of Children in the Classrooms
5	12
6	13
11	
14	21
16	23

If there is the same number of children in each classroom, what is one way to find the total number of children in the 11 classrooms?

- f.) Find the product of 16 and 11      h.) Find the difference of 11 and 7  
g.) Find the sum of 7 and 11      j.) Find the product of 7 and 11

- 4.) The table below shows the total number of birds in a number of cages. If there are the same number of birds in each cage, what is the total number of birds in 4 cages?

**Many, Many Birds in a lot of Cages**

Number of Cages	2	4	7	8
Total Number of Birds	28		98	112

- a.) 30, because  $28 + 2 = 30$       c.) 70, because  $98 - 28 = 70$   
b.) 56, because  $14 \times 4 = 56$       d.) 42, because  $14 \times 3 = 42$

- 6.) In which empty square would the number 2,833 make the comparison true?

f.)  $\boxed{2,990} > \boxed{\phantom{0000}} > \boxed{2,850}$

h.)  $\boxed{2,825} < \boxed{\phantom{0000}} < \boxed{2,950}$

g.)  $\boxed{2,910} > \boxed{\phantom{0000}} > \boxed{2,902}$

j.)  $\boxed{2,452} < \boxed{\phantom{0000}} < \boxed{2,720}$

Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math **STAAR Warm-up Number 20**

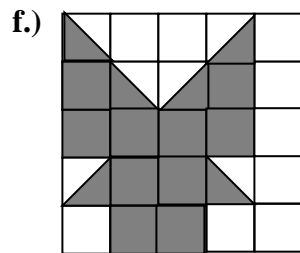
- 1.) Angie has some toy cars that she places in a bag. The toys are all the same size but they are different colors. There are 10 red cars, 13 blue cars, and 7 yellow cars in the bag. Angie will choose 1 of these cars out of the bag at random without looking. What statement about Angie's choice is true?

- a.) Angie is less likely to choose a blue car than a red car.
- b.) It is certain that Angie will choose a blue car.
- c.) Angie is more likely to choose a blue car than a yellow car.
- d.) It is impossible for Angie to choose a yellow car.

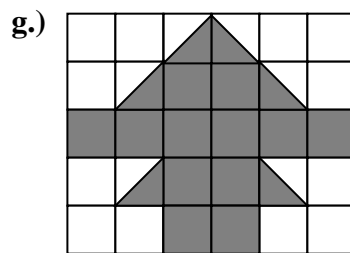
- 2.) Zoe writes down a number with a 3 in the ones place and a 6 in the hundreds place. Of the numbers below, which of the numbers could be the one that Zoe wrote on her paper?

- f.) 545,632      g.) 7,342,653      h.) 962,346      j.) 856,503

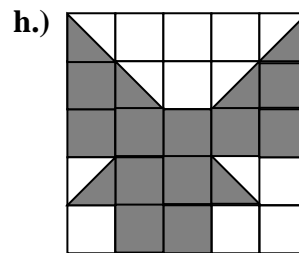
- 3.) Which of the following shaded figures below has an area of 15 square units?



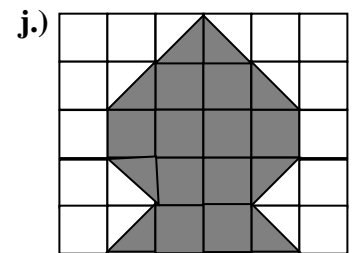
= 1 square unit



= 1 square unit



= 1 square unit



= 1 square unit

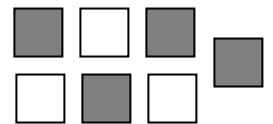
- 4.) What is the fraction of the shaded figures shown to the right?

a.)  $\frac{3}{7}$

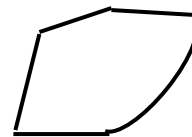
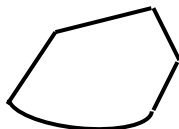
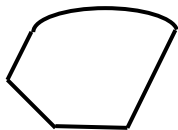
b.)  $\frac{7}{3}$

c.)  $\frac{4}{7}$

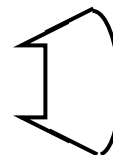
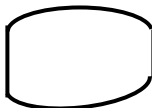
d.) Not Here



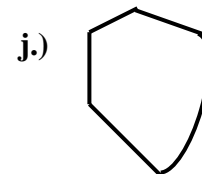
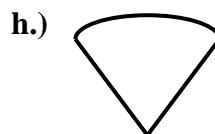
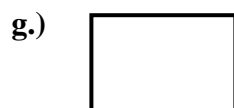
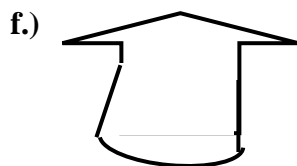
- 5.) Betty drew these figures and called them *lpizas*.



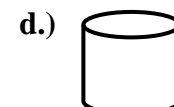
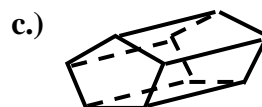
These figures are not *lpizas*.



Which figure below is a *lpiza*?



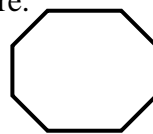
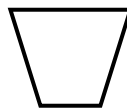
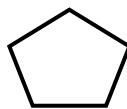
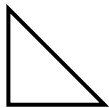
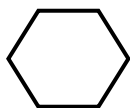
- 6.) Which three dimensional figure below is a triangular prism?



Name: \_\_\_\_\_

**3<sup>rd</sup> Grade Math STAAR Warm-up Number 21**

- 1.) Which is a true statement about the figures shown below? Write the name for each figure.



- f.) All shapes are quadrilaterals  
g.) All shapes are pentagons

- h.) All shapes are hexagons  
j.) All shapes are polygons

- 2.) The table below shows the total number of flower beds with different numbers of roses.

**Flowers**

Number of Flower Beds	Total Number of Roses
6	42
8	56
12	
13	91
17	119

Each flower bed has the same number of roses. What is the total number of roses on 12 of those beds?

- a.) 65                      b.) 78                      c.) 84                      d.) 88
- 3.) Ms. Nunez made a vegetable garden in her backyard. The width and length of the garden's sides are shown below.

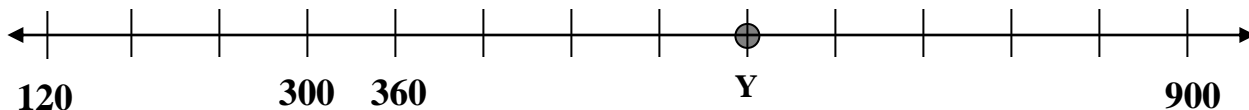
**7 feet**



**14 feet**

What is the perimeter **and** area of Ms. Nunez's garden?

- f.) 21 feet, 98 feet<sup>2</sup>                      g.) 42 feet, 98 feet<sup>2</sup>                      h.) 98 feet, 21 feet<sup>2</sup>                      j.) 42 feet, 21 feet<sup>2</sup>
- 4.) Which number best represents point Y on the number line below?



- a.) 480                      b.) 540                      c.) 600                      d.) 660
- 5.) After the 3<sup>rd</sup> grade field trip to Cavern Bat Cave, Vanessa drew some pictures of bats. She placed the bats in 7 columns. Each column had the same number of bats. One of the columns of bats is shown below.

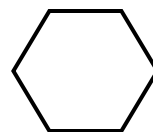
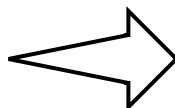
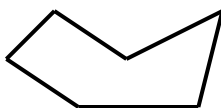


How many bats are in the 7 columns?

- f.) 28, because  $7 \times 4 = 28$                       h.) 21, because  $3 \times 7 = 21$   
g.) 7, because  $7 + 0 = 7$                       j.) 3, because  $7 - 4 = 3$

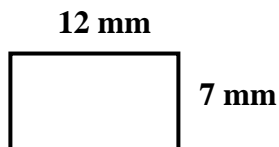
Name: \_\_\_\_\_

- 1.) Which is a true statement about the figures shown below?

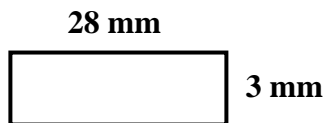


- a.) All shapes are quadrilaterals  
b.) All shapes are circles  
c.) All shapes are hexagons  
d.) All shapes are rectangles

- 2.) The dimensions of two rectangles are shown below.

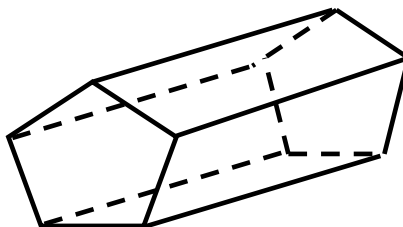


Rectangle X



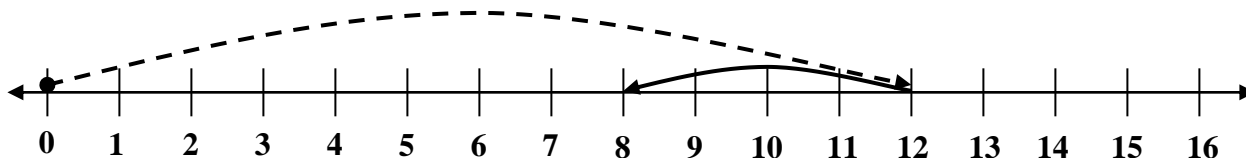
Rectangle Y

- f.) The area of Rectangle X is 12 millimeters<sup>2</sup> less than the area of Rectangle Y  
g.) The area of Rectangle X is 3 millimeters<sup>2</sup> more than the area of Rectangle Y  
h.) The area of Rectangle X is 9 millimeters<sup>2</sup> less than the area of Rectangle Y  
j.) The area of Rectangle X is equal to the area of Rectangle Y
- 3.) Julie has 3 bags of candy that have 10 pieces of candy in each bag. Yessica has 4 bags of candy with 20 candy pieces in each bag. What is the difference in candy pieces between Julie's and Yessica's bags?
- a.) 55                      b.) 50                      c.) 195                      d.) 110
- 4.) A three-dimensional figure called a pentagonal prism is shown below. How many faces does this figure have?



- f.) 7                      g.) 10                      h.) 15                      j.) 24

- 5.) Which number sentence is represented on the number line shown below?



- a.)  $4 + 12 = 16$                       b.)  $12 - 4 = 8$                       c.)  $4 + 8 = 12$                       d.)  $12 \times 4 = 48$
- 6.) Jane counted birds for three days last week by her house. The number of birds she counted is listed below.
- ☐ On Tuesday, she counted 38 birds
  - ☐ On Wednesday, she counted 53 birds
  - ☐ On Friday, she counted 64 birds

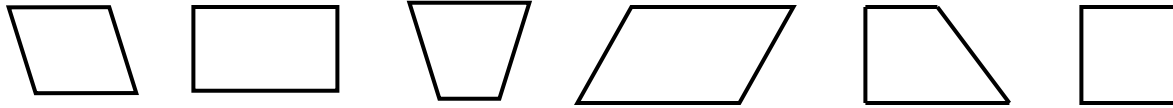
What was the sum of birds she counted on Tuesday, Wednesday and Friday?

- f.) 11                      g.) 26                      h.) 102                      j.) 155

Name: \_\_\_\_\_

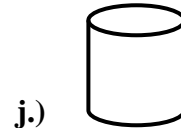
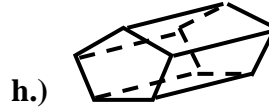
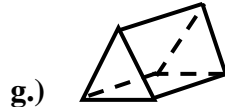
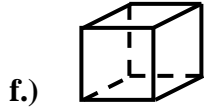
**3<sup>rd</sup> Grade Math STAAR Warm-up Number 23**

- 1.) Which is a true statement about the figures shown below? Write the name of each polygon below.

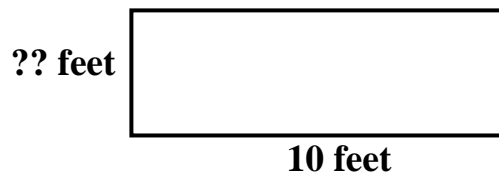


- f.) All shapes are quadrilaterals  
g.) All shapes are pentagons  
h.) All shapes are hexagons  
j.) All shapes are octagons

- 2.) Which three dimensional figure below has exactly 5 faces?



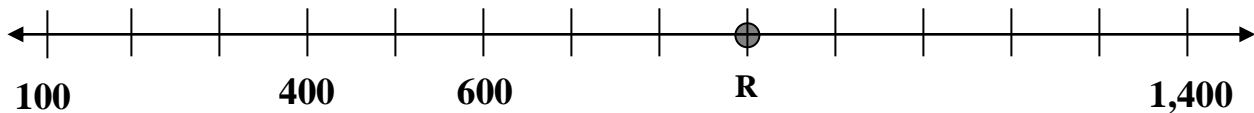
- 3.) A classroom computer station has the **area** shown by the rectangle below. Find the width of the computer station if the area is 40 square feet.



What is the width of the computer station in feet?

- f.) 5 feet  
g.) 3 feet  
h.) 10 feet  
j.) 4 feet

- 4.) Which number best represents point R on the number line below?



- a.) 700  
b.) 800  
c.) 900  
d.) 1,000

- 5.) Brenda made some pictures of origami hats at a party. She placed the hats in 6 columns. Each column had the same number of hats. One of the columns of hats is shown below.



How many hats are in the 6 columns?

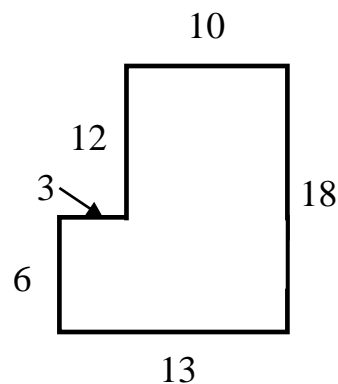
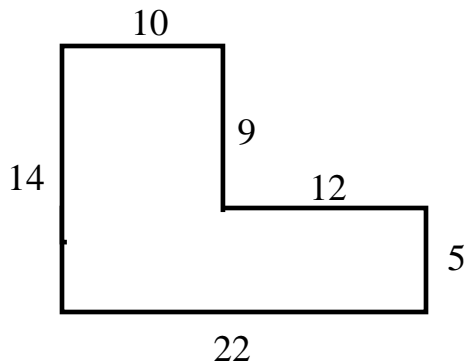
- f.) 24, because  $6 \times 4 = 24$   
g.) 6, because  $6 + 0 = 6$   
h.) 30, because  $5 \times 6 = 30$   
j.) 22, because  $21 - 1 = 22$

- 6.) A rancher gave his cows  $\frac{1}{8}$  of a pile of grass 5 days last week. Which equation can be used to find the amount of grass the rancher gave his cows last week?

- a.)  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 12$   
b.)  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$   
c.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$   
d.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{3}{8}$

Name: \_\_\_\_\_

1.) Calculate the area in square units of each figure below.



a.) 200

c.) 150

f.) 179

h.) 230

b.) 210

d.) 234

g.) 198

j.) 330

2.) Which one of the choices below is **NOT** a member of the fact family of  $3 \times 12$ ?

a.)  $12 \times 3$

b.)  $36 - 3$

c.)  $36 \div 12$

d.)  $36 \div 3$

3.) The table below shows the number of children in different classrooms.

Number of Classrooms	Total Number of Children in the Classrooms
5	25
6	26
11	
14	34
16	36

If there is the same number of children in each classroom, what is one way to find the total number of children in 11 classrooms?

f.) Find the product of 20 and 11

h.) Find the difference of 20 and 11

g.) Find the sum of 20 and 11

j.) Find the product of 20 and 11

4.) The table below shows the number of 3<sup>rd</sup> graders at Baker Elementary. If there is the same number of students in each class, what is the total number of students in 3 classrooms?

### How Many 3<sup>rd</sup> Graders?

Number of Classrooms	2	3	5	7
Total Number of Students	18		45	63

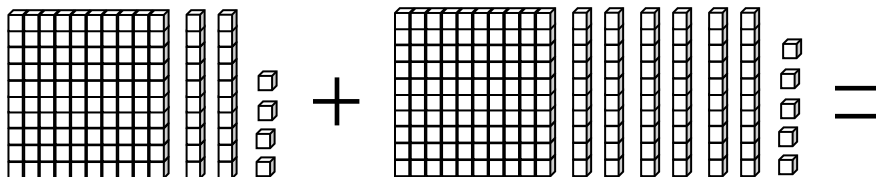
a.) 32, because  $30 + 2 = 32$

c.) 27, because  $3 \times 9 = 27$

b.) 30, because  $3 \times 10 = 30$

d.) 23, because  $45 - 18 = 23$

5.) Add the two base 10 blocks amounts to find the Sum.



f.) 269

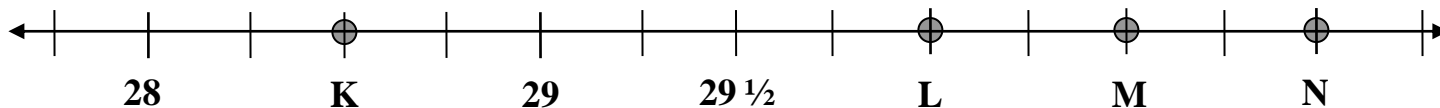
h.) 279

g.) 289

j.) 299

Name: \_\_\_\_\_

1.) Which point best represents  $30\frac{1}{2}$  on the number line below?



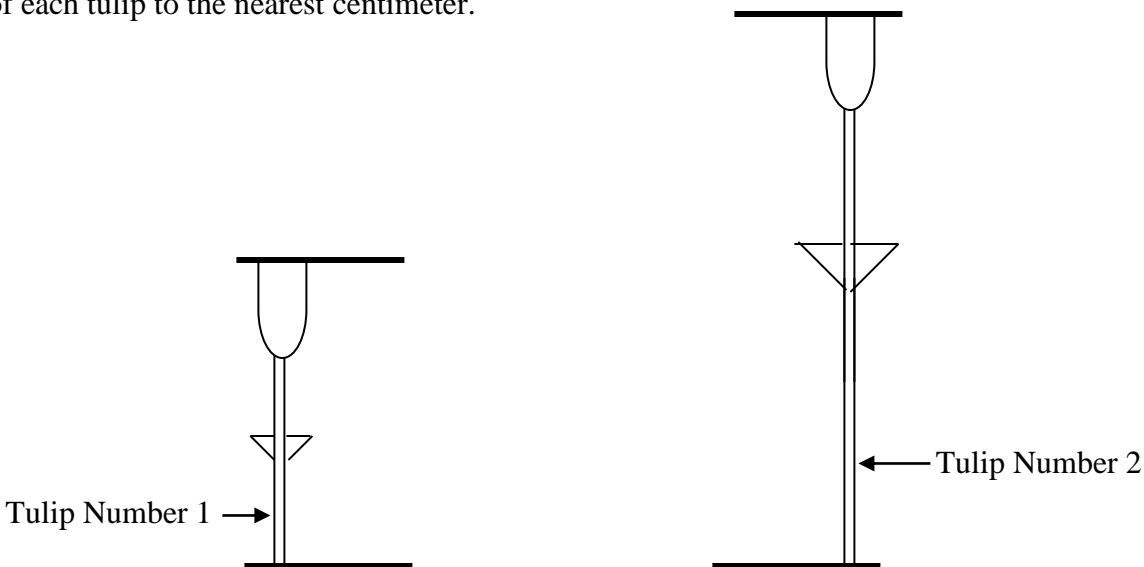
a.) Point K

b.) Point L

c.) Point M

d.) Point N

2.) Shown below are the two tulips that grow in Jennifer's backyard. Use a ruler to measure the height of each tulip to the nearest centimeter.



What is the difference in the height of these two tulips?

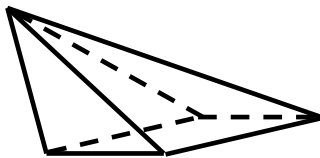
a.) 3

b.) 6

c.) 44

d.) 51

3.) A three-dimensional figure called a rectangular pyramid is shown below. How many edges does this figure have?



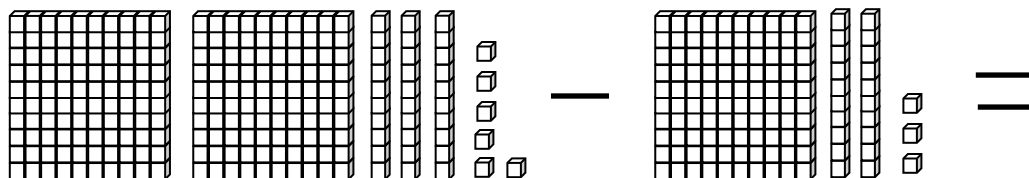
f.) 5

g.) 9

h.) 8

j.) 7

4.) Subtract the base 10 blocks below and find the difference?



a.) 359

b.) 103

c.) 123

d.) 113

5.) How is the number 8,326 written in expanded form?

f.)  $8,000 + 200 + 30 + 6$

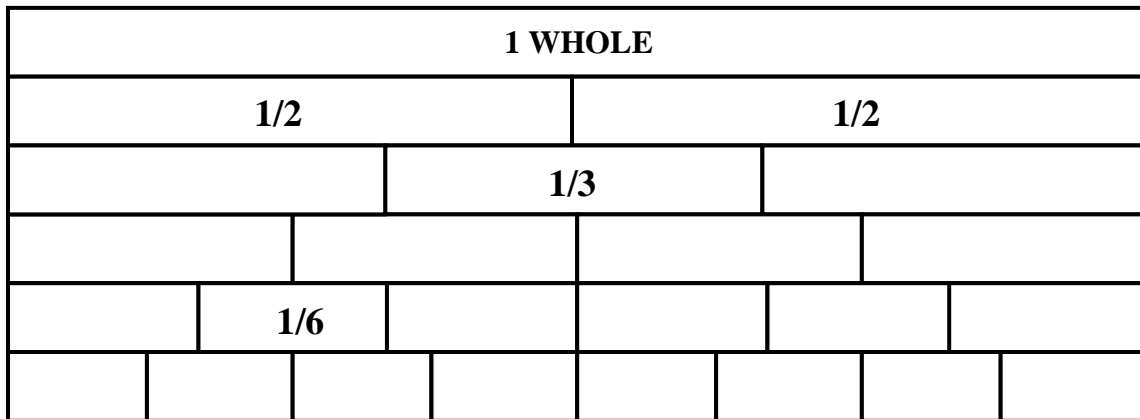
g.)  $8,000 + 20 + 6$

h.)  $8,000 + 300 + 20 + 6$

j.) Not here

Name: \_\_\_\_\_

- 1.) Use the diagram of the **fraction bar** to answer the question below. **FILL OUT THE TABLE.**



Which list shows fractions in order from greatest to least?

F.)  $\frac{1}{3}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

G.)  $\frac{1}{3}, \frac{1}{4}, \frac{1}{6}, \frac{1}{8}$

H.)  $\frac{1}{8}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

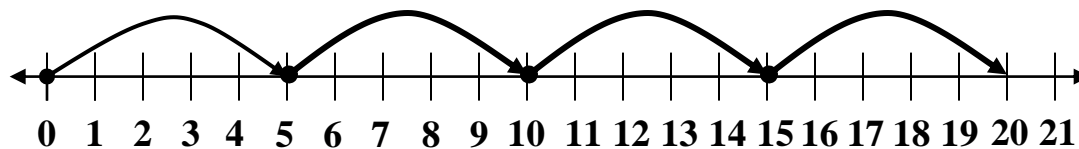
- 2.) A bank or credit union give loans of money to people to buy houses and cars. However, the bank loans out the money with **interest** when it gets paid back. What does **interest** mean on money that is borrowed?

- A.) That people keep all the money they borrow from the bank.  
 B.) That people pay back ONLY the money they borrow from the bank.  
 C.) That people pay back the money plus some money in addition to the money they borrowed.  
 D.) That the bank pays people more money for free since they borrowed money from them.

- 3.) Ms. Garcia's class placed 12 large cookies into 4 boxes. If they placed an equal number of cookies in each box, how many cookies are put in each box?

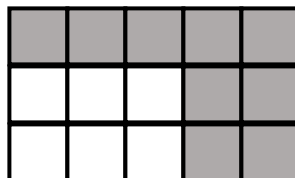
- F.) 5 cookies                      G.) 48 cookies                      H.) 3 cookies                      I.) 5 cookies

- 4.) Which number sentence is represented on the number line shown below?



- A.)  $20 \div 5 = 5$                       B.)  $4 \times 5 = 20$                       C.)  $20 - 4 = 5$                       D.)  $4 + 5 = 9$

- 5.) Two fractions are given below.



Which expression correctly expresses their relationship?

A.)  $\frac{9}{15} < \frac{8}{12}$

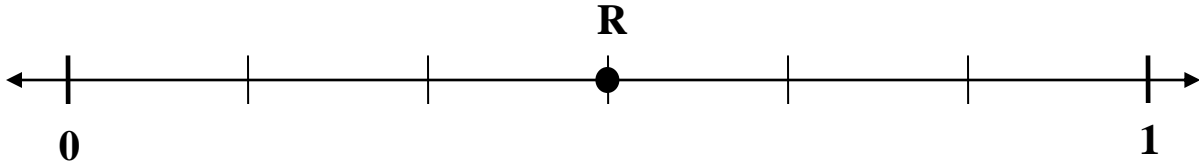
B.)  $\frac{9}{15} > \frac{8}{12}$

C.)  $\frac{9}{15} = \frac{8}{12}$

D.) Not Here

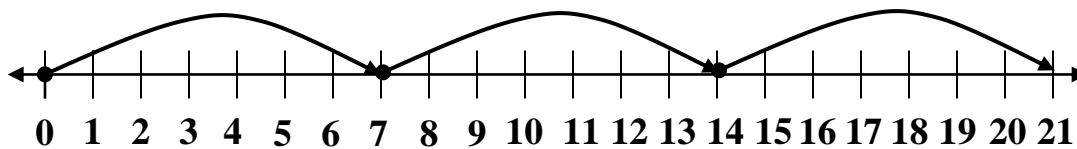


- 1.) Point
- R**
- is labeled on the number line.



Which statement is true?

- F.) Point **R** represents  $\frac{3}{6}$  and  $\frac{3}{5}$ , because both fractions represent 3 equal parts of a whole.
- G.) Point **R** represents  $\frac{3}{6}$  and  $\frac{5}{6}$ , because both fractions represent 6 equal parts of a whole.
- H.) Point **R** represents  $\frac{3}{6}$  and  $\frac{1}{2}$ , because both fractions are exactly halfway between 0 and 1 on a number line.
- J.) Point **R** represents  $\frac{2}{6}$  and  $\frac{1}{2}$ , because both fractions are exactly halfway between 0 and 1 on a number line.
- 2.) A 3<sup>rd</sup> grader wants to put money in his savings account at his bank for ten years. What would be a reason a 3<sup>rd</sup> grade would want to save money for a long time?
- A.) To purchase a toy at a store in town.
- B.) To save for college so he can get an education for a career in medicine.
- C.) To take a vacation with his friends when he finishes high school.
- D.) To take the money out when he graduates high school and give the money to his 3<sup>rd</sup> grade teacher.
- 3.) The principal bought 9 Dairy Queen cards at a cost of 5 dollars for each card for students who make their reading goals. What was the total money the principal spent on the Dairy Queen cards?
- F.) 45 dollars      G.) 4 dollars      H.) 14 dollars      I.) Not here
- 4.) Which number sentence is represented on the number line shown below?



- A.)  $21 \div 5 = 4$       B.)  $3 \times 7 = 21$       C.)  $21 - 7 = 14$       D.)  $7 + 7 = 14$
- 5.) Two fractions are given below.



Which expression correctly expresses their relationship?

- A.)  $\frac{6}{10} < \frac{8}{18}$       B.)  $\frac{6}{10} > \frac{8}{18}$       C.)  $\frac{6}{10} = \frac{8}{18}$       D.) Not Here
- 6.) Find the numbers that should be placed in the square and triangle that correctly solves the equation.

$$6 = \square \div 2$$

$$30 = 5 \times \triangle$$

E.)  $\square = 12$  and  $\triangle = 6$

G.)  $\square = 12$  and  $\triangle = 6$

H.)  $\square = 3$  and  $\triangle = 6$

Name: \_\_\_\_\_

- 1.) Use the diagram of the **fraction bar** to answer the question below. **FILL OUT THE TABLE.**

1 WHOLE							
				1/2			
					1/3		
				1/6			

Which list shows fractions in order from least to greatest?

F.)  $\frac{1}{3}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

G.)  $\frac{1}{3}, \frac{1}{4}, \frac{1}{6}, \frac{1}{8}$

H.)  $\frac{1}{8}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

- 2.) Max's teacher asked him to write the equation below on his paper. He decided to solve the equation. What was Max's answer?

$$12 = \square \div 3$$

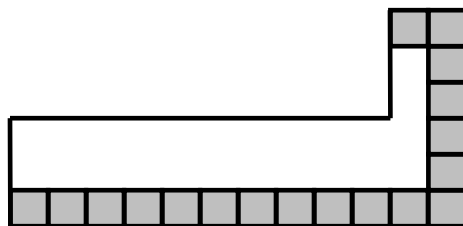
A.) 4.


B.) 48

C.) 36.

D.) 9

- 3.) The workroom floor of Johnston High School was composed of two rectangles as shown below.



 = 1 square yard

What is the **area** of the floor in square yards?

F.) 42 square yards

G.) 36 square yards

H.) 6 square yards

I.) 24 square yards

- 4.) Ms. Garcia purchased a can of soda from the vending machine. At the bottom of the can there is a unit of measure given. What is the unit of measure located on every can of soda?

A.) tons

B.) fluid ounces

C.) feet

D.) ounces

- 5.) The lengths of 4 sides of a pentagon are shown in the diagram to the right.

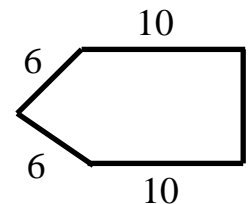
If the perimeter is 39 feet, what is the length of the missing side?

F.) 5 feet

G.) 6 feet

H.) 7 feet

I.) 8 feet



- 6.) About how many gallons of water does it take to **completely** fill a bathtub at your house?

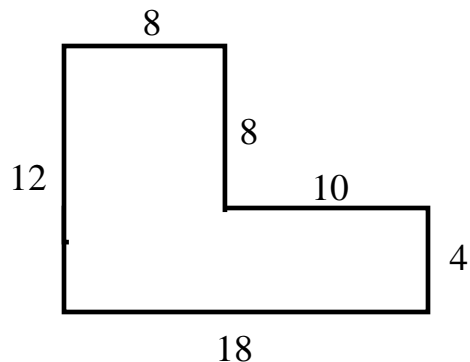
A.) 2 gallons

B.) 5 gallons

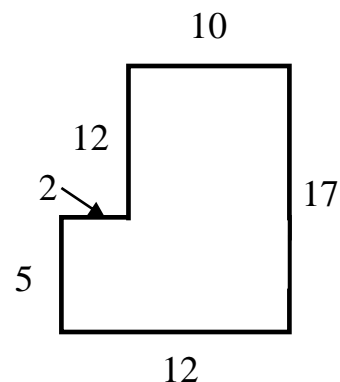
C.) 35 gallons

D.) 100 gallons

1.) Calculate the area in square units of each figure below.



- a.) 205      c.) 152  
b.) 136      d.) 236



- f.) 180      h.) 200  
g.) 190      j.) 210

2.) Which one of the choices below is **NOT** a member of the fact family of  $3 \times 10$ ?

- a.)  $10 \times 3$       b.)  $36 - 10$       c.)  $30 \div 10$       d.)  $30 \div 3$

3.) The table below shows the number of children in different classrooms.

Number of Classrooms	Total Number of Children in the Classrooms
5	25
6	30
12	
15	75
16	80

If there is the same number of children in each classroom, what is one way to find the total number of children in 12 classrooms?

- f.) Find the product of 5 and 12      h.) Find the difference of 12 and 5  
g.) Find the sum of 5 and 12      j.) Find the product of 12 and 6

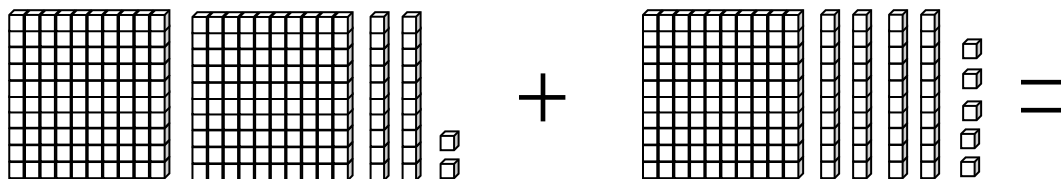
4.) The table below shows the number of kindergartners at Padron Elementary. If there is the same number of students in each class, what is the total number of students in 4 classrooms?

#### How Many Kinder Graders at Padron E?

Number of Classrooms	3	4	8	9
Total Number of Students	18		48	54

- a.) 36, because  $32 + 4 = 36$       c.) 28, because  $4 \times 7 = 28$   
b.) 24, because  $4 \times 6 = 24$       d.) 33, because  $45 - 12 = 33$

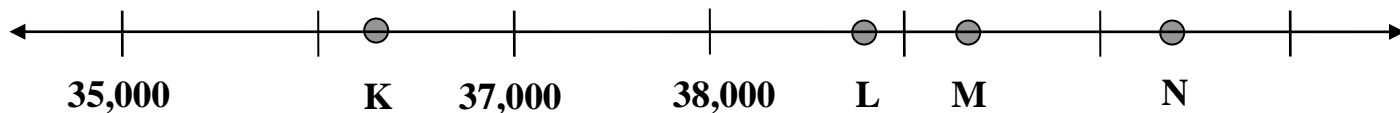
5.) Add the two base 10 blocks amounts to find the Sum.



- f.) 327      h.) 257  
g.) 389      j.) 367

Name: \_\_\_\_\_

1.) Which point best represents 39,300 on the number line below?



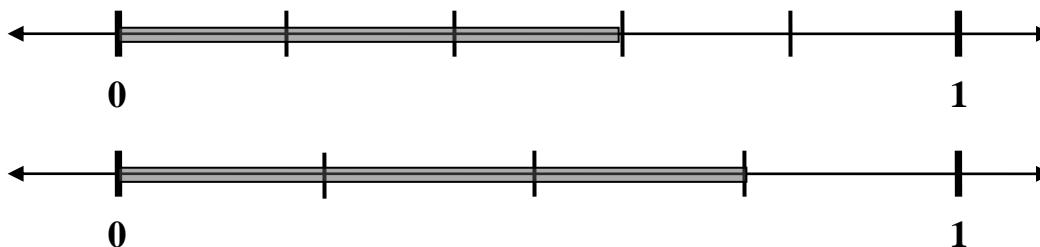
a.) Point K

b.) Point L

c.) Point M

d.) Point N

2.) Ariel shaded these two number lines to model two different fractions.



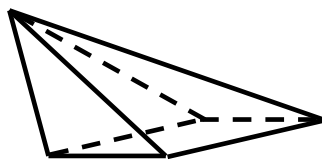
Based on the number lines, which comparison is true?

A.)  $\frac{3}{5} < \frac{3}{4}$

B.)  $\frac{3}{5} > \frac{2}{3}$

C.)  $\frac{3}{5} = \frac{2}{3}$

3.) A three-dimensional figure called a rectangular pyramid is shown below. How many faces does this figure have?



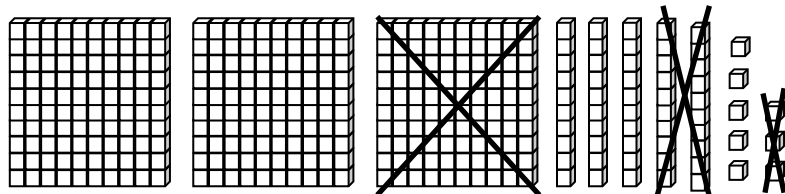
f.) 4

g.) 5

h.) 6

j.) 7

4.) Subtract the base 10 blocks below and find the difference?



a.) 130

b.) 235

c.) 275

d.) 245

5.) Ryan had 8 boxes of crayons with 12 in each box. He has 8 crayons away. How many does he have left?

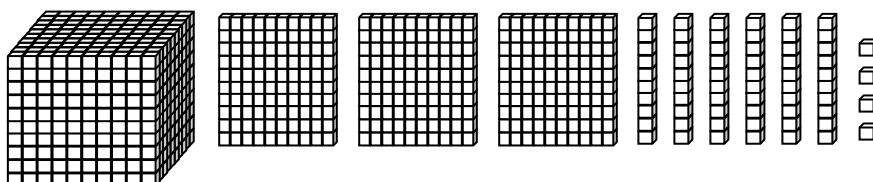
f.) 28

g.) 88

h.) 90

j.) Not here

6.) Name the number made by the following base 10 blocks.



a.) 1,374

b.) 1,264

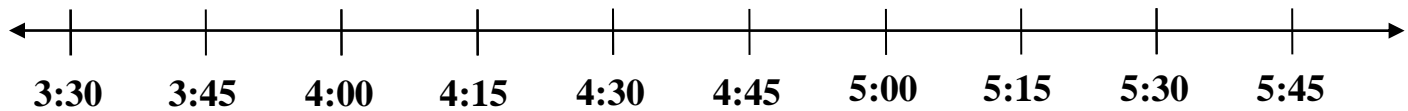
c.) 1,364

d.) 3,164

Name: \_\_\_\_\_

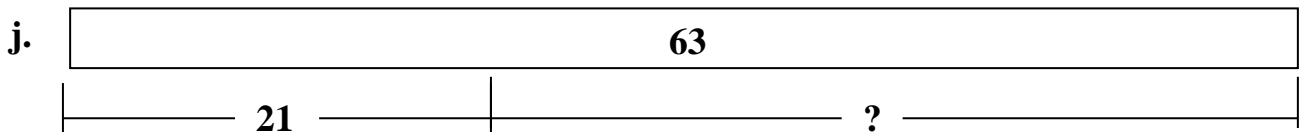
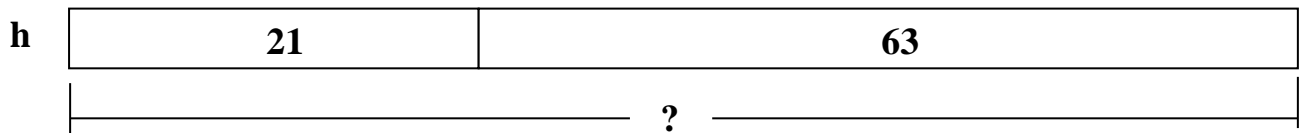
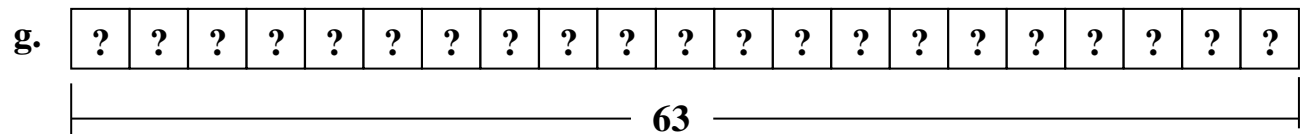
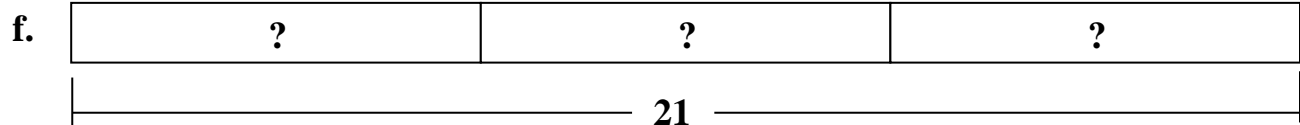
3<sup>rd</sup> Grade Math STAAR Warm-up Number 31

- 1.) Jesus looked at his watch. The time was 3:45 P.M, and he began walking. After 15 minutes, he arrived at the store. He was at the store for 60 minutes before he left. At what time did Jesus leave the store?

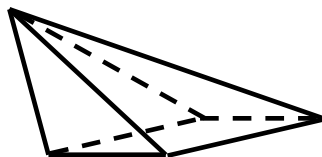


- a.) 5:00                      b.) 4:45                      c.) 5:30                      d.) 5:15

- 2.) Joseph made 21 toys. He used a total of 63 wheels to make the toys. If he put the same number of wheels on each toy, which diagram shows how to find the number of wheels Joseph put on each toy?



- 3.) A three-dimensional figure called a rectangular pyramid is shown below. How many **vertices** does this figure have?



- a.) 4                      b.) 5                      c.) 6                      d.) 7

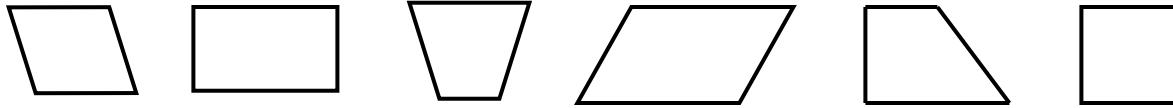
- 4.) Blaine borrowed \$3,000 from a bank to purchase a car. He paid \$3,800 dollars back to the bank over the next four years. Which of these reasons is the reason that Blaine paid more back to the bank than he borrowed?

- f.) Blaine had to pay sales tax on the car.  
g.) Blaine made a mistake with his payments. The bank owes him \$800.  
h.) Blaine had to pay interest on the loan to the bank.  
j.) Blaine added some extras on the new car and needed more money than \$3,000.

Name: \_\_\_\_\_

**3<sup>rd</sup> Grade Math STAAR Warm-up Number 32**

- 1.) Which is a true statement about the figures shown below? Write the name of each polygon below.



- f.) All shapes are quadrilaterals  
g.) All shapes are pentagons  
h.) All shapes are hexagons  
j.) All shapes are rhombuses

- 2.) Which statement is true about the number 56?

- f.) It is odd because the tens place is 5  
g.) It is odd because  $5 + 6$  equals 11  
h.) It is even because the 5 is even in the ones place  
j.) It is even because the 6 is even in the ones place

- 3.) A classroom computer station triangular desk has a perimeter of 38 inches. Two of the sides of the triangle are 12 inches long. What is the length of the third side in inches?

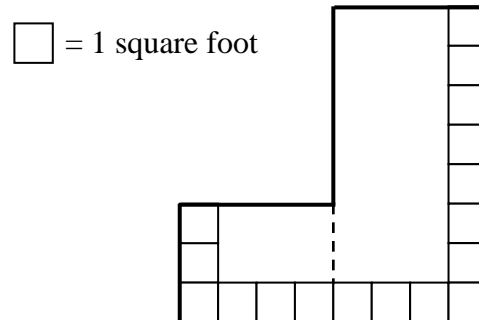
- f.) 12 inches  
g.) 24 inches  
h.) 50 inches  
j.) 14 inches

- 4.) The sum of 5 ten thousands, 2 tens and 3 ones can be expressed as what number in standard form?

- a.) 523  
b.) 5,230  
c.) 50,023  
d.) 52,030

- 5.) Brenda's father built an L-Shaped doghouse as shown in the diagram below. What is the total area of the L-Shaped doghouse in square feet?

- f.) 32 square feet  
g.) 44 square feet  
h.) 22 square feet  
j.) 45 square feet



- 6.) The City of Dallas pays each fireman each month to keep people safe. Which factor would most likely **not** affect the amount of money the City of Dallas pays each fireman?

- a.) The number of children in the fireman's family  
b.) The amount of special training the fireman has had.  
c.) The amount of school and education that the fireman has had.  
d.) The number of years the fireman has worked for the City of Dallas.

- 7.) What is the relationship between the ten thousands place and the thousands place in the number shown in the box below?

**55,551**

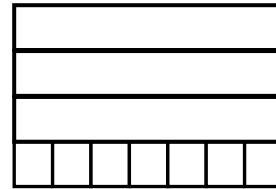
- f.) The ten thousands place is five times greater than the thousands place.  
g.) The ten thousands place is ten times greater than the thousands place.  
h.) The ten thousands place is five times less than the thousands place.  
i.) The ten thousands place is ten times less than the thousands place.


Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 33

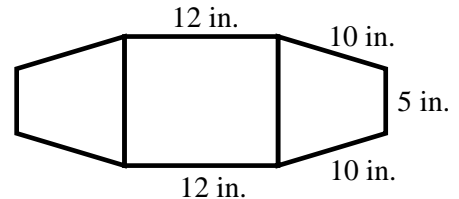
- 1.) A diagram of a rectangular floor is shown. The bottom row has been divided into squares of equal size.

The rest of the diagram will be divided into squares of the same size. What is the area in square units represented by this model?




 = 1 square inch

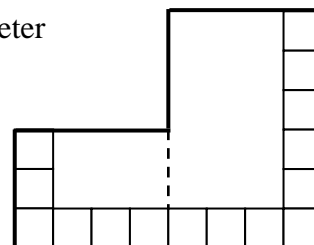
- a.) 7 square inches  
b.) 21 square inches  
c.) 25 square inches  
d.) 28 square inches
- 2.) A racket ball team bought 7 boxes of racket balls. Each box contained 28 racket balls. How many total racket balls did the team purchase?
- f.) 35 racket balls  
g.) 196 racket balls  
h.) 21 racket balls  
j.) 56 racket balls
- 3.) Yasmin cut a rug in the shape of an octagon. The octagon was divided into two congruent trapezoids and a rectangle. What is the **perimeter** of the octagonal rug?



- a.) 74 inches  
b.) 50 inches  
c.) 24 inches  
d.) Not here
- 4.) The sum of 8 ten thousands, 6 hundreds and 7 ones can be expressed as what number in standard form?
- f.) 867  
g.) 8,607  
h.) 80,760  
j.) 80,607
5. Jack made an L-Shaped garden as shown in the diagram below. What is the total area of the L-Shaped garden in square meters?

- a.) 32 square meter  
b.) 44 square meter  
c.) 22 square meter  
d.) 36 square meter

 = 1 square meter



- 6.) Which of these statements describe the number in the box to the right?

**25,072**

- f.) The sum of two ten thousands, five thousands, seven hundreds, one ten.  
g.) The sum of two ten thousands, five thousands, seven tens, two ones.  
h.) The sum of two ten thousands, five thousands, zero hundreds, seven tens, two ones.  
i.) Both g.) and h.) are correct

Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 34

- 1.) Olga and Yessica started playing soccer at 2 P.M. Olga played for 35 minutes. Yessica played for 20 minutes longer than Olga.

Start Time



What time did Yessica finish playing soccer?

a.



b.



c.



d.



- 2.) A 3<sup>rd</sup> grader collected small circular glass marbles. He purchased 9 boxes of marbles with 35 marbles in each box. How many total marbles did he buy?

f.) 44 marbles

h.) 315 marbles

g.) 26 marbles

j.) 305 marbles

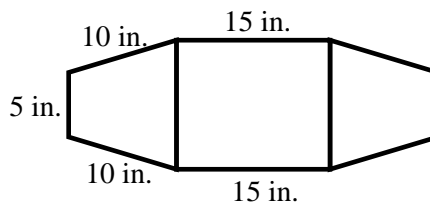
- 3.) John cut a rug in the shape of an octagon. The octagon was divided into two congruent trapezoids and a rectangle. What is the **perimeter** of the octagonal rug?

a.) 74 inches

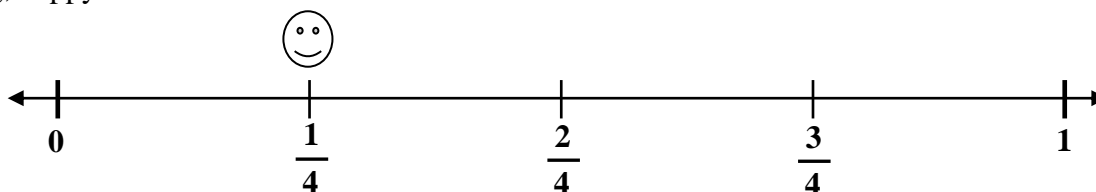
b.) 80 inches

c.) 24 inches

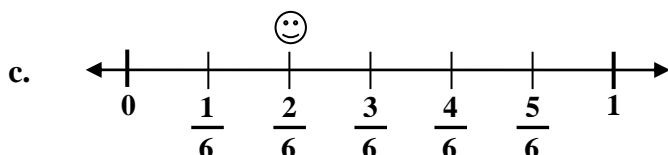
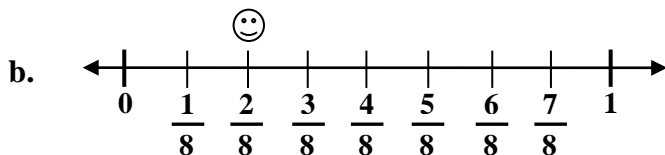
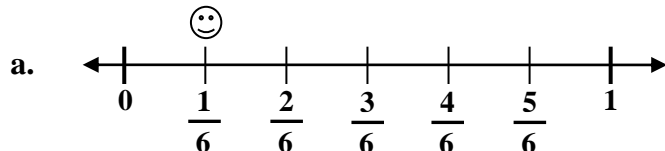
d.) 60 inches



- 4.) Jose loves fractions. He adores fractional number lines. He marked  $\frac{1}{4}$  on the number line below with a smiling, happy face.



Which of these number lines show a fraction that is equivalent to  $\frac{1}{4}$  marked with a smiling, happy face?

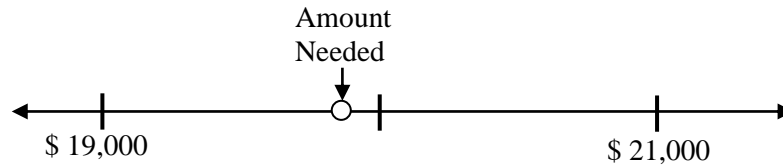




Name: \_\_\_\_\_

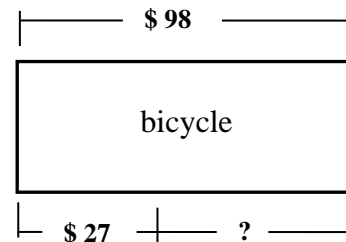
3<sup>rd</sup> Grade Math STAAR Warm-up Number 35

- 1.) The point on the number line represents the amount needed to purchase a new car.

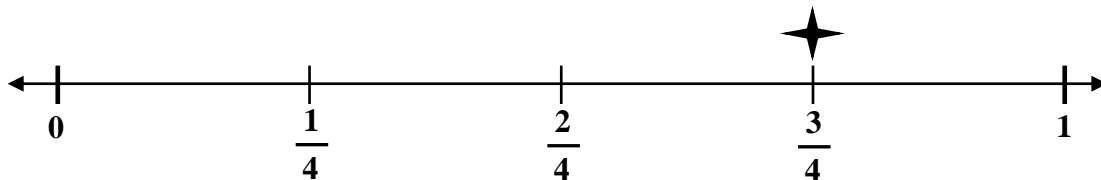


- a.) The amount of money needed is more than \$ 21,000.  
 b.) The amount of money needed is less than \$ 19,000.  
 c.) The amount of money needed is more than \$ 20,000.  
 d.) The amount of money needed is less than \$ 20,000.
- 2.) The perimeter of a square is 36 meters. What is the length of a side on the square?
- f.) 18 meters  
 g.) 6 meters  
 h.) 9 meters  
 j.) 10 meters
- 3.) Amanda wants to buy a bicycle that costs \$98. She has saved \$27 dollars, as shown in diagram or model show to the right. Which equation can be used to determine the amount of money that Amanda needs in order to purchase the bicycle?

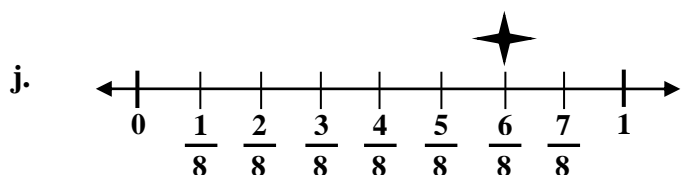
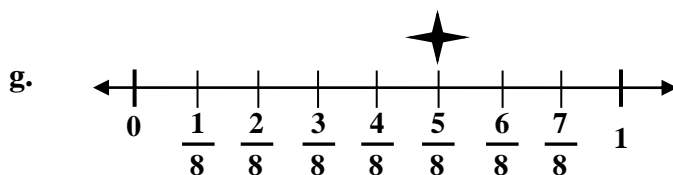
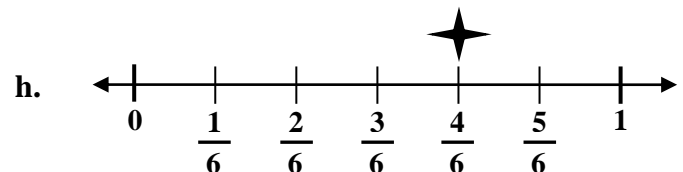
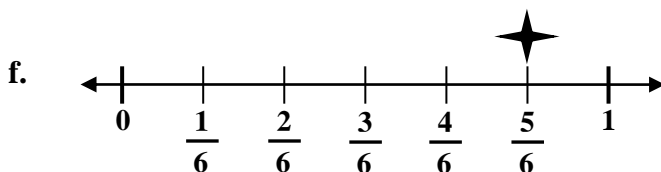
- a.)  $98 + 27 = ?$   
 b.)  $27 \times 98 = ?$   
 c.)  $98 - 27 = ?$   
 d.)  $98 \div 27 = ?$



- 4.) Rose Marie marked  $\frac{3}{4}$  on the number below with a star.



Which of these number lines show a fraction that is equivalent to  $\frac{3}{4}$  marked with a star?



Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 36

1.) Which number list shows an order from greatest to least?

- a.) 52,010    5,210    4,500    16,008  
 b.) 3,012    13,690    22,090    45,981  
 c.) 25,381    24,995    7,509    6,984  
 d.) 92,546    3,434    9,600    768

2.) Betty has 4 packages of green candy drops and 2 packages of red candy drops. Each package has 8 pieces of candy drops. What is the total number of candy drops that Betty has?

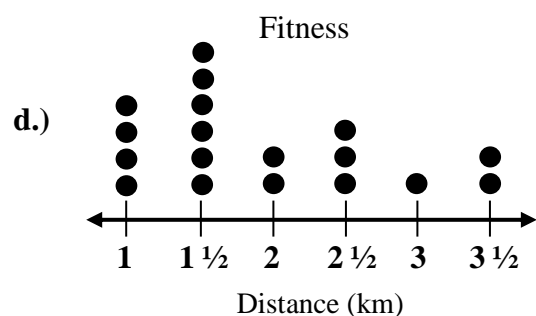
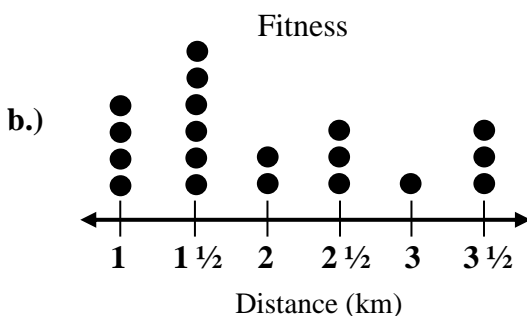
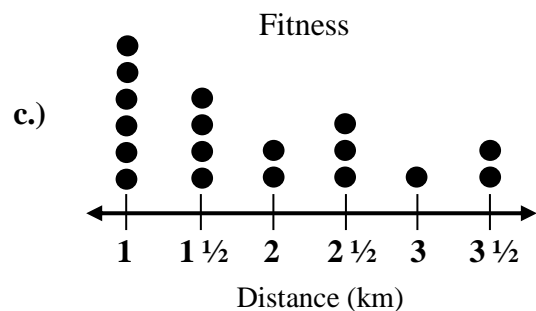
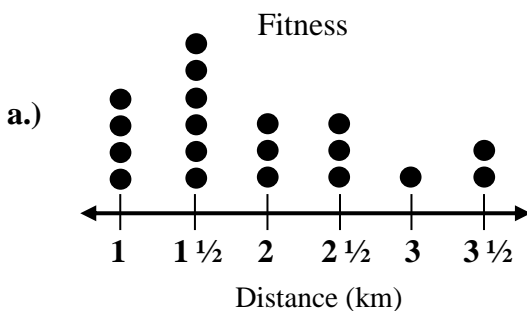
- f.) 6 candy drops                      h.) 48 candy drops  
 g.) 16 candy drops                  j.) 32 candy drops

3.) Jesus walked 18 days for fitness. The table shows how many days he walked each distance in kilometers (km).

Fitness Table

Distance (km)	1	1 ½	2	2 ½	3	3 ½
Days	4	6	2	3	1	2

Which **dot plot** below correctly represents the data in the table?



4.) The **expanded form** of a number is shown to the right:  $80,000 + 7,000 + 2$

What is the **standard form** of this number?

- f.) 872                                      h.) 87,200  
 g.) 8,702                                  j.) 87,002

Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 37

1.) Jasperetta baked 48 cookies. She placed 6 cookies in each box. How many boxes did she need?

a.) 42 boxes

c.) 7 boxes

b.) 8 boxes

d.) 54 boxes

2.) The teacher asked John, “Which of these numbers below is odd?” Circle the correct response.

f.) 400

h.) 507

g.) 534

j.) 888

3.) D’quan counted to 3,408 in 7 minutes in the Granville Elementary 3<sup>rd</sup> grade speed counting contest. Jane counted to 4,589 in the same contest. What was the difference in both children’s counting totals?

Record your answer on the space provided at the right.

Difference: \_\_\_\_\_

4.) Ayn had 469 dollars in her piggy bank. On Friday morning, she gave her brother 64 dollars and her mother gave her 132 dollars. What equation below can be used to calculate the money that Ayn has in her piggy bank now?

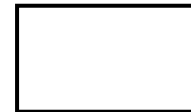
a.)  $469 - 132 + 64 = ?$

c.)  $469 - 64 + 132 = ?$

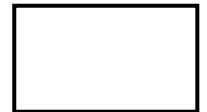
b.)  $469 + 64 - 132 = ?$

d.)  $469 + 64 + 132 = ?$

5.) James drew two large **congruent** rectangles as shown to the right.



***Rectangle A***



***Rectangle B***

- He divided one ***Rectangle A*** into 2 congruent triangle parts using a diagonal line.
- He divided the other ***Rectangle B*** into 2 congruent rectangle parts using a horizontal line.

Which statement below is true?

- f.) Each triangle part and each rectangle part represent  $\frac{1}{2}$  area of the rectangles.
- g.) Each triangle part is larger than the rectangular part.
- h.) Each rectangle part is larger than the triangle part.
- j.) Each triangle part and each rectangle part represent  $\frac{1}{4}$  of the rectangle.

6.) After school, Perla walked to a friend’s house, stayed there and played, and then, walked home.

- Perla walked to her friend’s house in 12 minutes.
- Perla played at her friend’s house for 27 minutes.
- Perla walked home in 9 minutes.

What was the total amount of time Perla spent after she left school and arrived at her home?

a.) 39 minutes

c.) 45 minutes

b.) 48 minutes

d.) 36 minutes



Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 38

- 1.) Yessica used 18 feet of ribbon to make necklaces. She used 6 feet of ribbon on each necklace. Which equation can be used to find the number of necklaces Yessica made?

a.)  $18 \div 6 = ?$

c.)  $18 - 6 = ?$

b.)  $18 \times 6 = ?$

d.)  $18 + 6 = ?$

- 2.) Ralph has 438 buttons. His friend, Carl, gave Ralph his collection of 259 buttons. How many buttons does Ralph have now?

f.) 179 buttons

h.) 697 buttons

g.) 687 buttons

j.) Not Here

- 3.) Jeffery has received a square birthday card from his grandmother. What is the perimeter of the card?

18 cm



a.) 36 cm

c.) 24 cm

b.) 54 cm

d.) 72 cm

- 4.) There are 6 cans of pet food in each sack at the Fantastic Pet Store. Which table shows the correct multiplication relationship between the number of sacks and the total cans of pet food in the sacks?

f.)

Number of Bags	Number of cans
2	12
5	30
6	36
9	45

h.)

Number of Bags	Number of cans
2	8
5	11
6	12
9	15

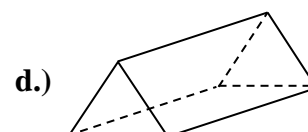
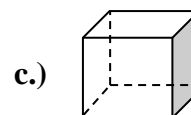
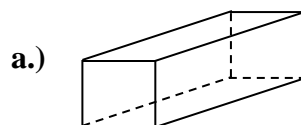
g.)

Number of Bags	Number of cans
2	12
5	30
6	42
9	54

j.)

Number of Bags	Number of cans
2	12
5	30
6	36
9	54

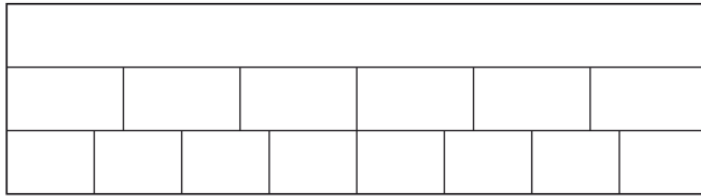
- 5.) Which space figure is a **not** a prism?



Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 39

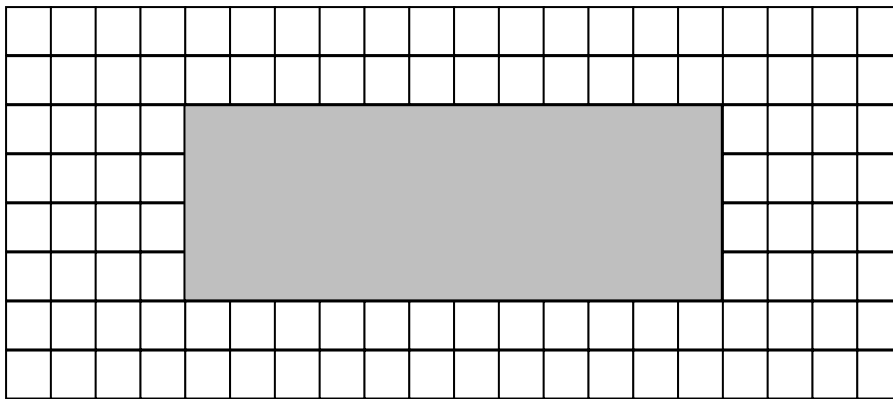
- 1.) A fraction strip is shown.




Which comparisons and explanations are true?

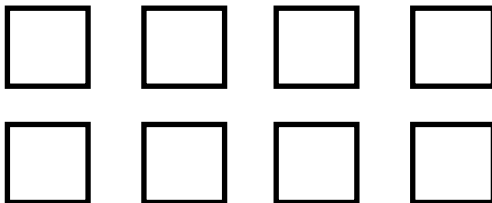
- a.)  $\frac{3}{6} = \frac{3}{8}$  Because the numerators are the same.
- b.)  $\frac{3}{6} < \frac{3}{8}$  Because sixths are smaller than eighths.
- c.)  $\frac{3}{6} > \frac{3}{8}$  Because sixths are larger than eighths.
- d.)  $\frac{3}{6} > \frac{3}{8}$  Because sixths are smaller than eighths.

- 2.) The shaded figure on the grid represents the area needed for a new swing set on the playground.



 = 1 square meter

- f.) 36 square meters
- g.) 48 square meters
- h.) 32 square meters
- j.) 38 square meters
- 3.) A group of 24 students shared boxes in an exercise game. An equal number of students shared each box. How many students shared each box?



- a.) 3 students
- b.) 4 students
- c.) 6 students
- d.) 8 students

- 4.) What statement does NOT describe the number 4,120?

- a.) The sum of 4,000 and 120 ones.
- b.) The sum of 4,000 and 12 tens.
- c.) The sum of 4,000, one hundred and 20 ones.
- d.) The sum of 4,000 and 12 hundreds.

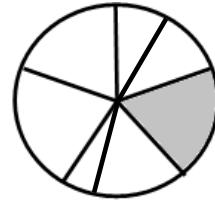
Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math **STAAR Warm-up Number 40**

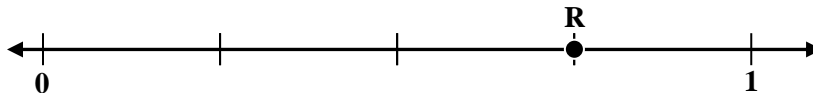
- 1.) John was learning fractions. So, he drew a circle and partitioned it. Then, he shaded part of the circle.

John told the teacher he shaded one-seventh ( $\frac{1}{7}$ ) of the circle.

**Why do you think John's fraction of  $\frac{1}{7}$  is not correct?**  
**Provide a short response below.**



- 2.) Point **R** on the number line represents two equivalent fractions.



Which two fractions can Point **R** represent?

a.)  $\frac{3}{4}$  and  $\frac{4}{6}$

c.)  $\frac{3}{4}$  and  $\frac{4}{8}$

b.)  $\frac{3}{4}$  and  $\frac{3}{6}$

d.)  $\frac{3}{4}$  and  $\frac{6}{8}$

- 3.) There are 8 shapes on a page of a “Guess the Shape” game. A page of the game is shown below.

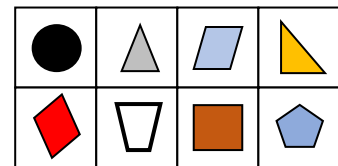
How many shapes are shown on 6 pages?

f.) 16

h.) 24

g.) 48

j.) 32



- 4.) A California mathematics drivers' license card is shown below. Use the ruler provided by your teacher to measure the card to the nearest centimeter.

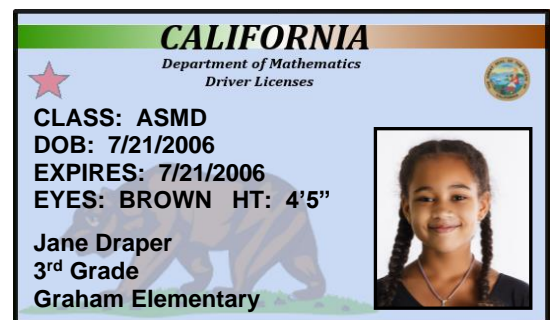
What is the perimeter of the card in centimeters (cm)?

a.) 14 cm

b.) 18 cm

c.) 22 cm

d.) 26 cm



- 5.) Mr. Samuels works for Johnson Chemical Company in Chicago, Illinois. What best statement determines how much money his company pays him each month for his work?

f.) How expensive the car Mr. Samuels drives to work.

g.) The work experience and skills that Mr. Samuels has.

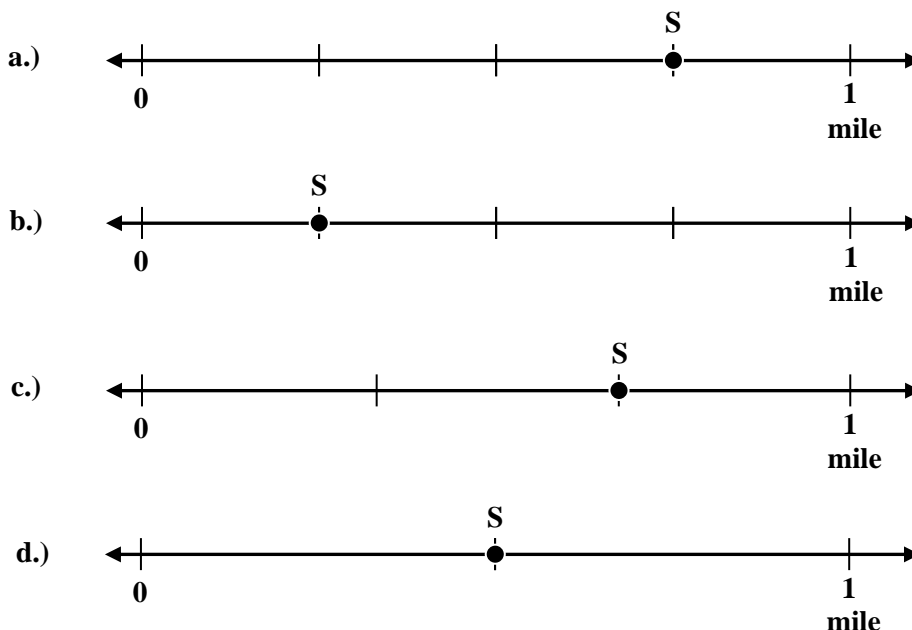
h.) The number of children Mr. Samuels has in his family.

j.) The amount of money Mr. Samuels saves in his bank account each month.

Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 41

- 1.) Suzzanne walked  $\frac{2}{3}$  of a mile from her house. Which fraction line below represents how far Suzzanne (S) walked from her house?

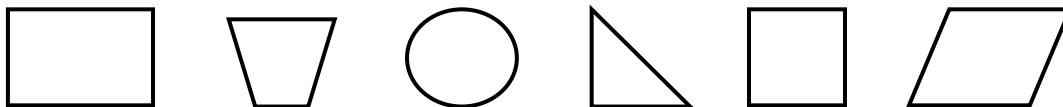


- 2.) There are 14 red mats on the floor. The expression represents the number of tennis balls on the floor.

$$2 \times 14 = 28$$

Which statement is true?

- f.) There is an equal number of red mats and tennis balls.
- g.) There are 14 more red mats than tennis balls on the floor.
- h.) There are twice the number of red mats as tennis balls on the floor.
- j.) There are twice the number of tennis balls than red mats on the floor.
- 3.) The 6 shapes shown below can be classified in a number of ways.



Which statement represents a correct classification?

- a.) 1 circle, 1 triangle, 1 pentagon, 1 square, 1 rectangle, 1 trapezoid.
- b.) 1 circle, 1 triangle, 4 quadrilaterals.
- c.) 1 circle, 1 triangle, 4 pentagons.
- d.) 1 circle, 1 triangle, 4 hexagons.



- 4.) Barry bought some items at the grocery store. He spent this amount of money:  
How much money did Barry spend at the grocery store?

- e.) \$ 2.31                      g.) \$ 2.36
- f.) \$ 2.21                      h.) \$ 2.51



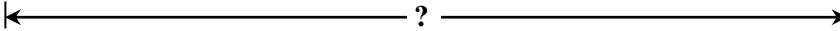
Name: \_\_\_\_\_

**3<sup>rd</sup> Grade Math STAAR Warm-up Number 42**

- 1.) Betty made 12 shelves to sell at the local farmer's market. She used 3 pieces of wood for each shelf. Which diagram shows the total number of pieces of wood Betty used?

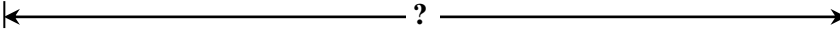
a.) 

12	12	12	12	12	12	12	12	12	12	12	12
----	----	----	----	----	----	----	----	----	----	----	----

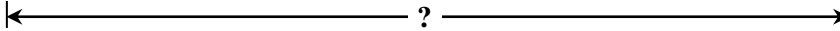
b.) 

3	3	3	3	3	3	3	3	3	3	3	3
---	---	---	---	---	---	---	---	---	---	---	---

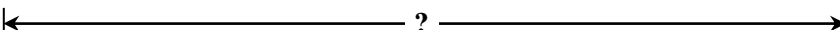
c.) 

12	12
----	----

d.) 

12	3	3	3	3	3	3
----	---	---	---	---	---	---

- 2.) Mr. Barrientos has three children – Nina, Samuel and Jessica.

- Nina weighs 100 pounds.
- Samuel weighs 49 pounds.
- Jessica weighs 32 pounds.

What is the difference between Nina's weight and the combined weight of Samuel and Jessica?

- f.) 81 pounds      h.) 181 pounds      g.) 71 pounds      j.) 19 pounds

- 3.) There are 3 soccer teams practicing together on a large field.

- Each team has 12 players.
- All the players are used to make 4 groups.
- All the groups are equal in number.

How many players are in each group?

- a.) 9      b.) 4      c.) 12      d.) 36

- 4.) Four students each bought a can of Coke. The table shows how much money they paid the clerk and how much change they received. What was the price of the Coke?

Name	Money Paid	Change Received
Jeff	100 cents	48 cents
Madison	75 cents	23 cents
Chris	60 cents	8 cents
Haines	55 cents	3 cents

- f.) 51 cents  
h.) 52 cents  
g.) 3 cents  
j.) Not here



Name: \_\_\_\_\_


**3<sup>rd</sup> Grade Math STAAR Warm-up Number 43**

- 1.) Jennifer received the money shown below for doing chores for her parents. How much money did Jennifer make from her work?

- a.) \$ 13.75                      c.) \$ 8.75  
b.) \$ 12.25                      d.) \$ 8.25

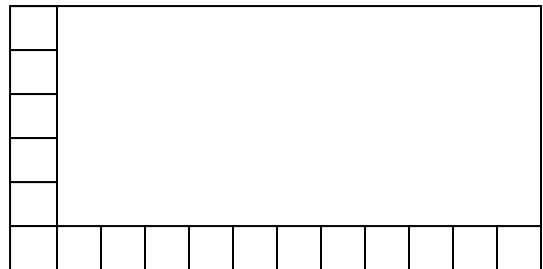


- 2.) Amy is making a patio in her backyard with flat square tiles. Each tile has an area of 1 square yard. The figure below shows the square tiles that have already been placed.

 = 1 square yard

What is the area of the entire patio in square yards?

- f.) 60 square yards                      h.) 17 square yards  
g.) 72 square yards                      j.) 36 square yards



- 3.) Ms. Crafty is making cookies for three public schools. The table below shows the number of cookies she made for each school.

What is the best estimate of the total number of cookies Ms. Crafty made?

- a.) 600 cookies                      c.) 800 cookies  
b.) 700 cookies                      d.) 900 cookies

**COOKIES**

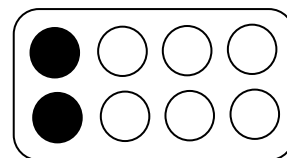
School (P.S.)	Baked Cookies
P.S. No. 21	253
P.S. No. 132	146
P.S. No. 167	405

- 4.) Mitch played soccer with his friends. After the game, he drank a bottle of juice. Which unit of measure best describes the volume of the liquid he drank?

- f.) fluid ounces                      g.) pounds                      h.) square feet                      j.) grams

- 5.) Alice made 8 muffins. She and her friends ate 6 muffins. What are two equivalent fractions that represent the muffins that were not eaten.

- a.)  $\frac{3}{6}$  and  $\frac{3}{8}$                       c.)  $\frac{1}{4}$  and  $\frac{2}{8}$   
b.)  $\frac{1}{3}$  and  $\frac{2}{6}$                       d.)  $\frac{2}{4}$  and  $\frac{2}{8}$



- 6.) Compute the difference and the sum of two baby elephants' weights of 604 and 439 kilograms?

Difference: \_\_\_\_\_ kilograms.

Sum: \_\_\_\_\_ kilograms.

Name: \_\_\_\_\_

**3<sup>rd</sup> Grade Math STAAR Warm-up Number 44**

1.) Which comparison is NOT true?

- a.)  $3,076 > 2,569$       b.)  $23,560 < 25,002$       c.)  $43,091 = 43,091$       d.)  $18,714 < 5,999$

2.) For 11 rounds in the dart throwing contest, Damian threw 4 blue darts and 2 red darts at the target.

What was the total number of red and blue darts that Damian threw for all 11 rounds?

- f.) 44 darts      g.) 17 darts      h.) 66 darts      j.) 22 darts

3.) A 7-11 sold 647 bottles of drinks over the weekend. The table shows the type of drinks that the store sold. The number of bottles of Topo Chico Water is missing.

**Type of Drinks and Quantity Sold at 7-11**

<i>Type of Drink Sold</i>	<i>Quantity</i>
Mountain Dew	154
Topo Chico Water	?
Coca-Cola	218

What set of equations can be used to find the number of Topo Chico Water bottles that were sold?

- a.)  $154 + 218 = 372$   
 $647 + 372 = ?$       b.)  $154 + 218 = 372$   
 $647 - 372 = ?$       c.)  $218 - 154 = 64$   
 $647 + 64 = ?$       d.)  $647 - 218 = 429$   
 $429 - 154 = ?$

4.) The perimeter of the rectangular floor in Mr. Jones' guest bedroom is 36 feet. The width of the floor is 10 feet, as shown.

What is the length of Mr. Jones' guest bedroom?

10 feet



Write your answer on the line: \_\_\_\_\_ feet.

5.) A basketball team played in 7 tournaments last season. They were charged 85 dollars for each tournament as an entry fee. What was the total amount of money that the team paid to play in all 7 tournaments?

- g.) 92 dollars      g.) 595 dollars      h.) 515 dollars      j.) 680 dollars

6.) Clark went to his friend's party at the time shown on the clock to the right. He left 45 minutes later. At what time did Clark leave the party?

- a.) 2:25 PM      c.) 2:15 PM  
b.) 2:20 PM      d.) 1:55 PM



7.) Priscilla used 10 packages of balloons to throw a party for her new baby. There were 8 balloons in each package. Half of the balloons in each package were green. Which equation can be used to calculate the number of green balloons Priscilla used at the party?

- h.)  $10 \times 8 \div 2 = 44$       g.)  $80 \div 2 - 8 = 32$       h.)  $10 + 8 \div 2 = 14$       j.)  $9 \times 2 \div 2$

Name: \_\_\_\_\_

- 1.) Billy was able to do 9 push-ups. The number of push-ups that Jasper did is represented by this equation:

$$3 \times 9 = 27$$

Which statement is true?

- a.) Billy and Jasper were both able to do an equal number of push-ups.
  - b.) Billy did twenty more push-ups than Jasper.
  - c.) Billy did twenty fewer push-ups than Jasper.
  - d.) Jasper did three times as many push-ups as Billy.
- 2.) The table shows the number of pieces of bubble gum in different numbers of packages.

Based on

**Bubble Gum**

Number of Packages	Number of Pieces of Gum
3	36
4	48
5	60
6	72

Based on the relationship in the table, which statement is true?

- f.) The number of packages plus 33 equals the number of pieces of gum.
  - g.) The number of packages minus 33 equals the number of pieces of gum.
  - h.) The number of packages times 12 equals the number of pieces of gum.
  - k.) The number of packages divided by 12 equals the number of pieces of gum.
- 3.) Kim is describing to her class the relationship between labor and income.
- Which statement is correct that Kim should use with her classmates?
- a.) A 3<sup>rd</sup> grader takes \$10 dollars from his bank account and spends it at the store.
  - b.) A 3<sup>rd</sup> grader earns \$10 dollars for feeding their neighbor's dogs when they are on vacation.
  - c.) A 3<sup>rd</sup> grader does volunteer work at the local foodbank.
  - d.) A 3<sup>rd</sup> grader gives his sister \$3.
- 4.) A rectangular room is completely tiled with 1 square foot pieces of carpet. There are 4 rows, and each row has 12 carpet pieces. What is the area of the rectangular room in square feet?

Write your answer on the line: \_\_\_\_\_ square feet

- 5.) A class measures the height of two books.

- **Book A** is  $\frac{1}{3}$  foot high.      - **Book B** is  $\frac{3}{3}$  foot high

Which statement is true?

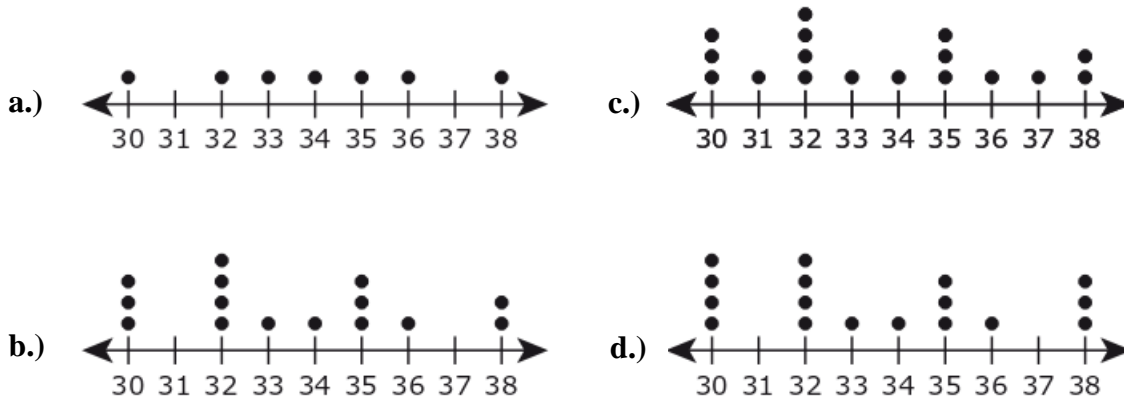
- f.) Book A's height equals Book B's.
- h.) Book B's height is greater than Book A's.
- g.) Book A's height is greater than Book B's.
- j.) Not enough information to compare books.

Name: \_\_\_\_\_

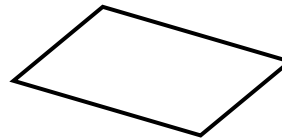
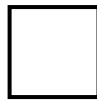
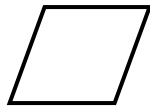
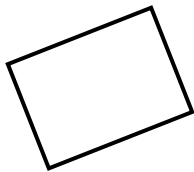
1.) The numbers listed below are the distance in feet that Victor threw a football.

30, 36, 32, 38, 33, 32, 34, 35, 35, 30, 30, 32, 38, 35, 32, 30, 38

Which dot plot represents Victor's throws?



2.) A group of figures is shown below. What word best describes **all** the shapes?



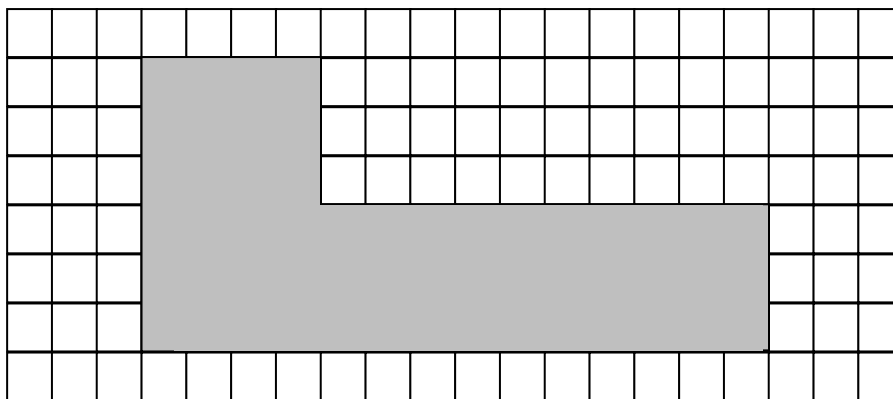
f.) circles

g.) trapezoids

h.) rhombuses

j.) parallelograms

3.) The shaded rectangular object below is the floor of a cabin.



= 1 square meter

What is the area of the shaded rectangle region?

a.) 54 square meters

b.) 44 square meters

c.) 50 square meters

d.) 57 square meters

4.) What number sentence can be used to find the number in the box for this equation?

$$15 \div 5 = \square$$

f.)  $10 \div 2 = 5$

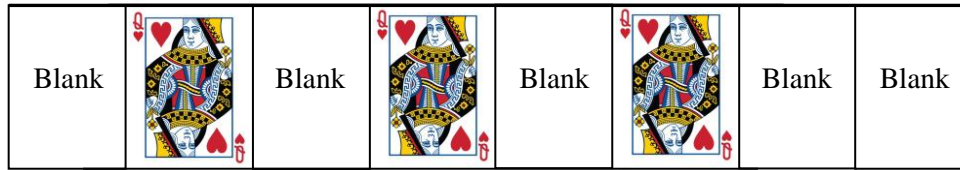
g.)  $5 \times 15 = 75$

h.)  $3 \times 5 = 15$

j.)  $3 \times 1 = 3$

Name: \_\_\_\_\_

- 1.) Jim lines 8 playing cards. Three Queen of Hearts and 5 Blank cards as shown below.



Which expression is equivalent to the number of Queen of Hearts to the fraction of cards shown?

a.)  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

c.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

b.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

d.)  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

- 2.) The pictograph shows the number of balloons 4 teams made during the school ‘Balloon Contest.’

**Balloon Contest Results**

Red Team	✓ ✓ ✓ ✓ ✓
Blue Team	✓ ✓ ✓
Green Team	✓ ✓
Brown Team	✓ ✓ ✓ ✓ ✓ ✓

Each ✓ means 12 balloons

Which table correctly represents the data?

f.)

Balloon Contest Results	
Red Team	5
Blue Team	3
Green Team	2
Brown Team	6

h.)

Balloon Contest Results	
Red Team	60
Blue Team	36
Green Team	24
Brown Team	72

g.)

Balloon Contest Results	
Red Team	55
Blue Team	33
Green Team	22
Brown Team	66

j.)

Balloon Contest Results	
Red Team	60
Blue Team	32
Green Team	28
Brown Team	84

- 3.) Each side of the figure is the same length. The perimeter of the figure is 50 inches.

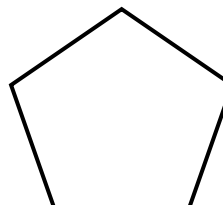
What is the length of one side of the figure?

a.) 50 inches

c.) 9 inches

b.) 10 inches

d.) 5 inches



Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 48

1.) What number goes in the  to make the equation true?

$$\square \times 6 = 84$$

- a.) 17                      b.) 12                      c.) 18                      d.) 14

2.) Which statement is true about the number 25?

- f.) The number 25 is even since it can be divided evenly by 5.  
g.) The number 25 is odd since when you sum the digits of  $25 - 2 + 5$  equals 7.  
h.) The number 25 is odd since the number in the one's place is 5 – and 5 is an odd number.  
i.) The number 25 is even since it can be evenly divided by 2.

3.) Damar bought 4 packages of chocolate chip cookies and 2 packages of raisin cookies. There were 12 cookies in each package. How many cookies did Damar purchase or buy?

- a.) 72                      b.) 60                      c.) 84                      d.) 18

4.) Shannon chose a figure with 4 vertices that was also a quadrilateral. Glen picked a figure with no vertices.

What figures are possible that Shannon and Glen chose?

- f.) triangle and rectangle                      h.) parallelogram and circle  
g.) parallelogram and pentagon                      j.) rectangle and hexagon

5.) A group of students purchased tickets for the Halloween Haunted House.

- The group of students spent \$ 3 dollars for each ticket.
- The group of students spent a total of \$ 24 dollars.
- Each student in the group bought 2 tickets.

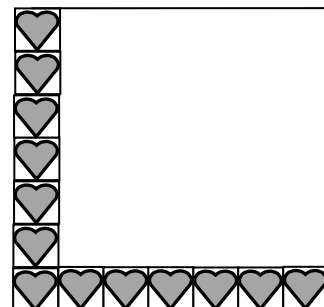
How many students were in the group?

- a.) 2 students                      b.) 4 students                      c.) 6 students                      d.) 8 students

6.) Robin is putting stickers on a piece of cardboard. She is making a rectangular pattern as shown below. Each sticker is 1 square inch.

What is the area of the pattern when Robin finishes placing all the stickers on the cardboard?

- f.) 28 square inches  
g.) 42 square inches  
h.) 49 square inches  
j.) 56 square inches



Name: \_\_\_\_\_

1.) Jim has 2 bags.

- Each bag has 2 stuffed animals
- Each animal has 10 toes.

Which model can be used to find the total number of toes the stuffed animals have?

a.) 

2	2
---	---

2	2
---	---

c.) 

4	4
---	---

4	4
---	---

b.) 

10	10
----	----

10	10
----	----

d.) 

10
----

10
----

2.) A large room has 616 seats.

- 138 seats are marked with a yellow sign
- 242 seats are marked with a red sign
- 117 seats are marked with a blue sign.
- The rest of the seats are marked with an orange sign.

How many seats are orange?

f.) 119

g.) 281

h.) 497

j.) 235

3.) Mr. Jones sells oranges at a fruit stand for the highest price he can.

- Today, Mr. Jones has only a few oranges left to sell.
- Today, a lot of customers want to buy his oranges.

What price do you think Mr. Jones will charge customers for each orange?

- a.) a **lower price** for each orange since he wants to get rid of the oranges.
- b.) a **higher price** for each orange because he has so many oranges left to sell.
- c.) a **lower price** for each orange since there are many customers wanting to buy oranges.
- d.) a **higher price** for each orange since there are many customers and only a few oranges left to sell.

4.) Franklin sells turtles. Franklin changes the price he sells a turtle for each week.

- If Franklin has many turtles, he charges customers less money for one turtle.
- If Franklin has only a few turtles, he charges customers more money for a turtle.

The table represents the number of turtles that Franklin sold in the last 4 weeks.

**Franklin's Turtles**

	Week 1	Week 2	Week 3	Week 4
Number of Turtles Franklin has to Sell	90	70	100	10
Number of Customers Buying Turtles	20	20	20	20

What week did Franklin sell his turtles at the highest price?

f.) Week 1

g.) Week 2

h.) Week 3

j.) Week 4

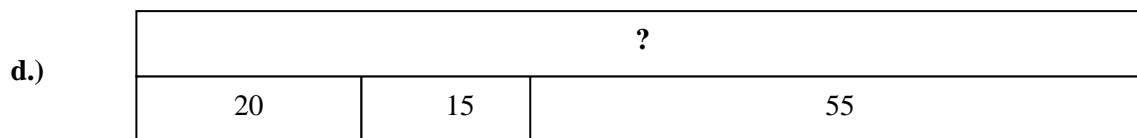
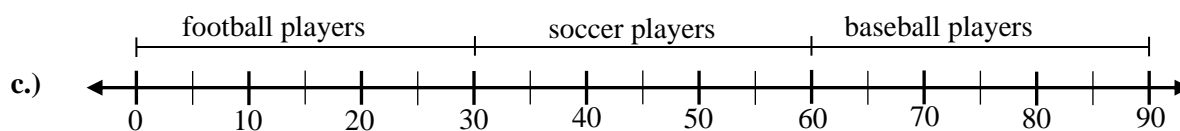
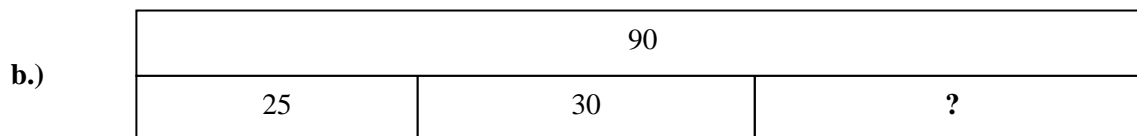
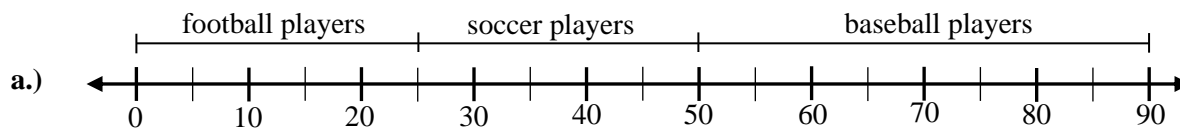
Name: \_\_\_\_\_

3<sup>rd</sup> Grade Math STAAR Warm-up Number 50

- 1.) There are 3 different types of sports players at a ceremony. The total number of players at the ceremony is 90.

- There are 25 football players and 30 soccer players.
- The rest of the players at a game are baseball players.

Which model represents one way to find the number of baseball players?



- 2.) An expression is shown below.

$$3 + 5,000 + 40$$

What number is equivalent to this expression?

Write answer on the line: \_\_\_\_\_

- 3.) Luis has 24 stickers to place on 3 walls. He puts the same number of stickers on each wall. How many stickers did Luis put on each wall?

Wall 1



Wall 2



Wall 3



f.) 21 stickers

g.) 9 stickers

h.) 7 stickers

j.) 8 stickers

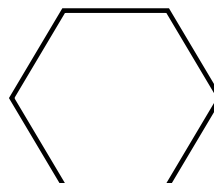
- 4.) Each side of the figure is the same length. The perimeter of the figure is 42 centimeters (cm). What is the length of one side of the figure?

a.) 6 centimeters

c.) 7 centimeters

b.) 5 centimeters

d.) 42 centimeters





3<sup>rd</sup> Grade STAAR  
Preps

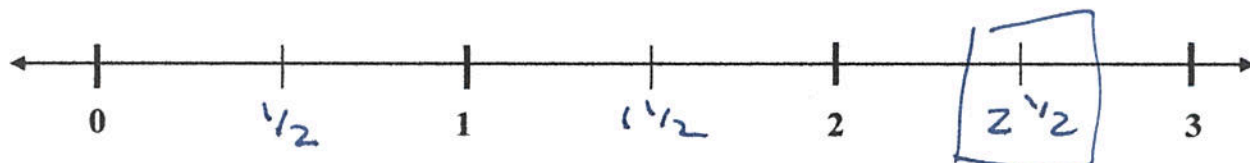
**SOLUTIONS**  
**for**

**50 Practice Pages**

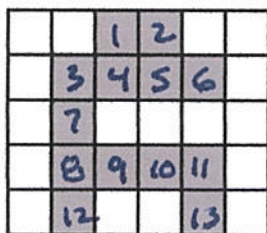
Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 1

- 1.) Fill out the number line...all **proper fractions** and **mixed numbers**. Circle the point on the number line where the mixed number  $2\frac{1}{2}$  is located.



- 2.) Calculate the area in square units of each shaded figure below.



☐ = 1 square unit

- a.) 10  
b.) 12  
c.) 13  
d.) 15



☐ = 1 square unit

- f.) 10  
g.) 11  
h.) 12  
j.) not here

- 3.) Melanie made 3 gallons of lemonade for her birthday party. There are 8 pints in each gallon of lemonade. Which expression is in the same fact family as  $3 \times 8 = 24$ ?

- a.)  $24 \times 3$       b.)  $8 - 3$       c.)  $24 \div 8$       d.)  $8 + 3$

- 4.) Adolfo has a number of baskets with different numbers of apples in each basket. The table below shows the total number of apples in each basket.

Number of Baskets	Total Number of Apples in the Baskets
2 $\times 3$	6
6 $\times 3$	18
9 $\times 3$	
11 $\times 3$	33
16 $\times 3$	48

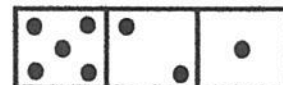
Rule:  
 $\times 3 \rightarrow$   
 $\div 3 \leftarrow$

If there is the same number of apples in each basket, what is one way to find the total number of apples in 9 baskets?

- f.) Find the product of 18 and 9      h.) Find the sum of 3 and 9  
g.) Find the difference of 11 and 8      j.) Find the product of 3 and 9

- 5.) The dominos shown on the right make a number. Is the number even or odd?

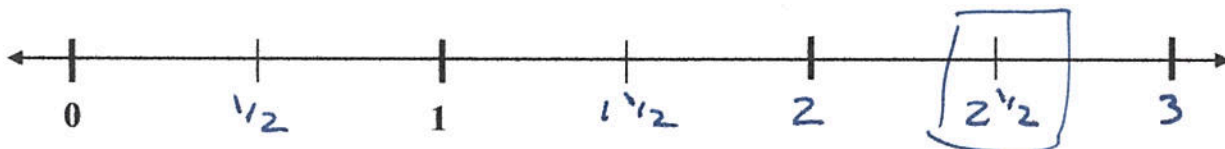
- a.) odd      b.) even      c.) can't tell      d.) 521



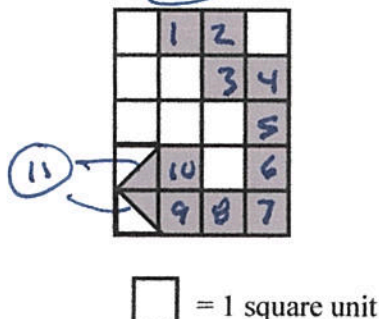
Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 2

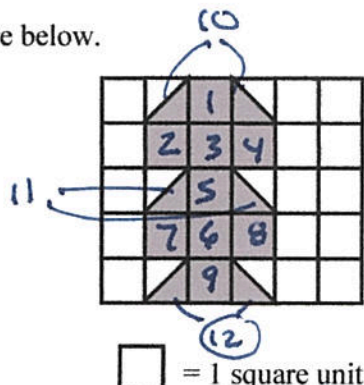
- 1.) Fill out the number line...all proper fractions, whole numbers and mixed numbers. Circle the point on the number line where the mixed number  $2\frac{1}{2}$  is located.



- 2.) Calculate the area in square units of each shaded figure below.



- a.) 5  
b.) 11  
c.) 12  
d.) 14



- f.) 5  
g.) 8  
h.) 12  
j.) 15

- 3.) John made 4 gallons of lemonade for his friends. There are 8 pints in each gallon of lemonade. Which expression is in the same fact family as  $4 \times 8 = 32$ ?

- a.)  $32 \times 4$       b.)  $8 - 4$       c.)  $32 \div 8$       d.)  $8 + 4$

- 4.) The table below shows the number of children in different classrooms.

Number of Classrooms	Total Number of Children in the Classrooms
3	12
4	16
9	36
11	44
16	64

Rule:  
 $\times 4 \rightarrow$   
 $\div 4 \leftarrow$

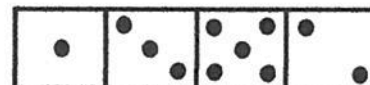
If there is the same number of children in each classroom, what is one way to find the total number of children in 9 classrooms?

- f.) Find the product of 16 and 9  
g.) Find the sum of 3 and 9  
h.) Find the difference of 11 and 9  
j.) Find the product of 4 and 9

even  
↓  
1 3 5 2

- 5.) The dominos shown on the right make a number. Is the number even or odd?

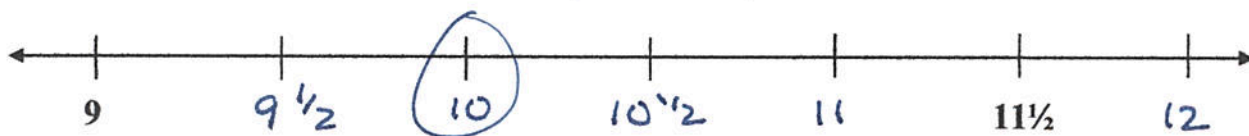
- a.) odd      b.) even      c.) can't tell      d.) 1,352



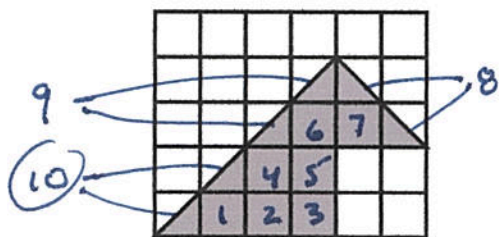
Name: Solutions

3<sup>rd</sup> Grade Math STAAR Warm-up Number 3

- 1.) Fill out the number line with **whole numbers** and **mixed numbers**. Circle the point on the number line where the whole number **10** is located. (Halves)

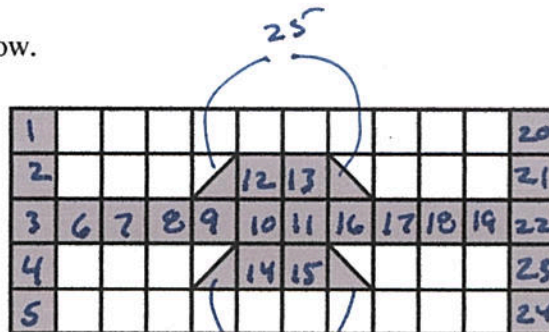


- 2.) Calculate the area in square units of each shaded figure below.



= 1 square unit

- a.) 10  
b.) 13  
c.)  $13 \frac{1}{2}$   
d.) 14



= 1 square unit

- f.) 20  
g.) 24  
h.) 26  
j.)  $30 \frac{1}{2}$

- 3.) Priscilla likes numbers. Today she has chosen 11, 5 and 6. Which expression is in the same fact family as the three numbers that Priscilla chose?

- a.)  $5 \times 6 = 11$       b.)  $6 - 5 = 1$       c.)  $11 - 5 = 6$       d.)  $11 \div 6 = 5$

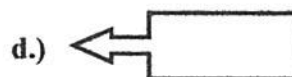
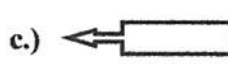
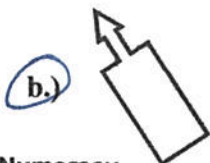
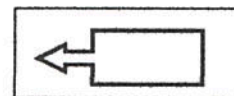
- 4.) Find the missing number in the table.

Boys		Total Books the Boys read over Spring Break
2	+4	6
4	+4	8
8	+4	12
9	+4	13
13	+4	17

RULE  
SUBTRACT 4 ←  
OR  
ADD 4 →

- f.) 13      g.) 14      h.) 18      j.) 27

- 5.) Which figure below is congruent to the figure shown in the box to the right?

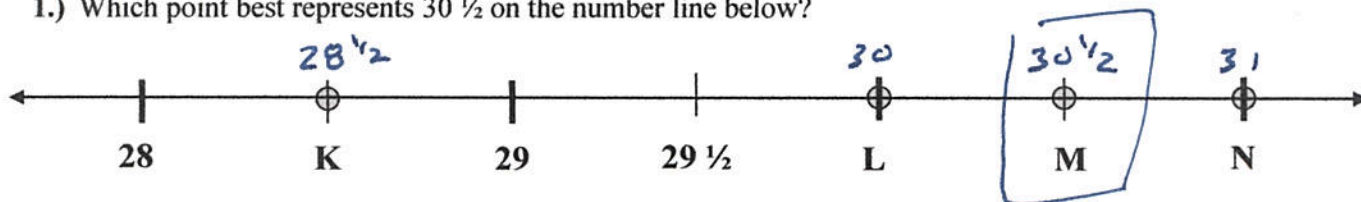




Name: SOLUTION

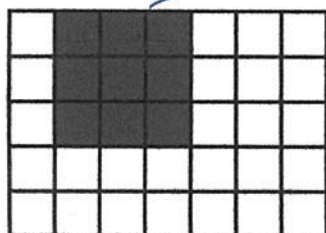
3<sup>rd</sup> Grade Math STAAR Warm-up Number 4

- 1.) Which point best represents  $30\frac{1}{2}$  on the number line below?



- a.) Point K      b.) Point L      c.) Point M      d.) Point N

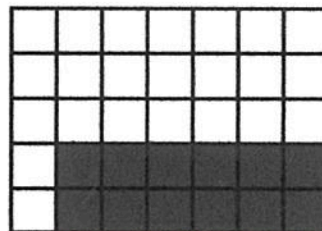
- 2.) Calculate the Sum of the two areas in square units of both shaded figures shown below.



9 or  $3 \times 3$

= 1 square unit

$$\begin{array}{r} 12 \\ + 9 \\ \hline 21 \end{array}$$



Area = 12  
count on  $2 \times 6$

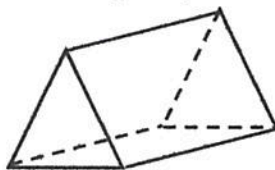
- f.) 8      g.) 12      h.) 18      i.) 21

- 3.) Obdeja has piano practice 5 times each month. Each practice lasts 3 hours. What is the total number of hours that Obdeja will practice on the piano in 4 months?

$$5 \times 3 \times 4 = 60$$

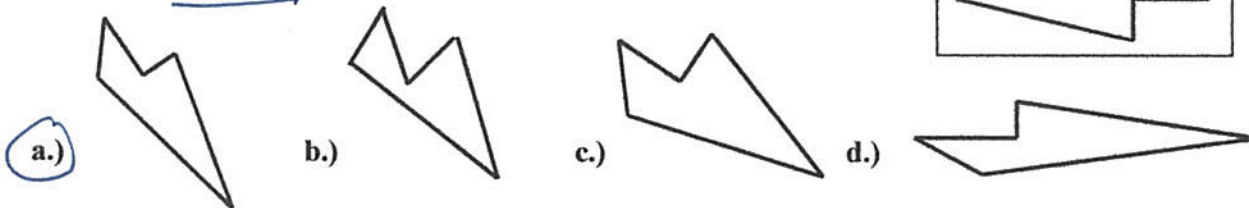
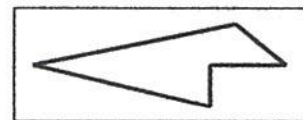
- a.) 12      b.) 20      c.) 15      d.) 60

- 4.) A three-dimensional figure called a triangular prism is shown below. How many vertices does this figure have?



- f.) 5      g.) 9      h.) 6      j.) 12

- 5.) Which figure is congruent to this figure shown in the box?



- 6.) How is the number 3,043 written in expanded form?  $3000 + 0 + 40 + 3$

- f.)  $3,000 + 3$       g.)  $300 + 40 + 3$       h.)  $3,000 + 400 + 3$       i.)  $3,000 + 40 + 3$

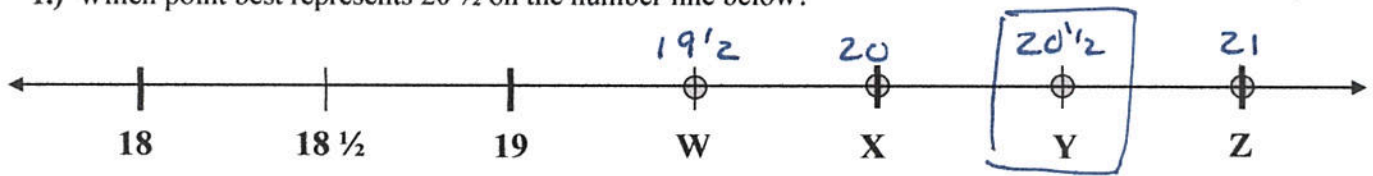
- 7.) Hubert's favorite number is ninety thousand two hundred fifty-one. What is the number in standard place value form or number form?

- a.) 92,251      b.) 90,215      c.) 90,251      d.) 9,251

Name: SOLUTIONS

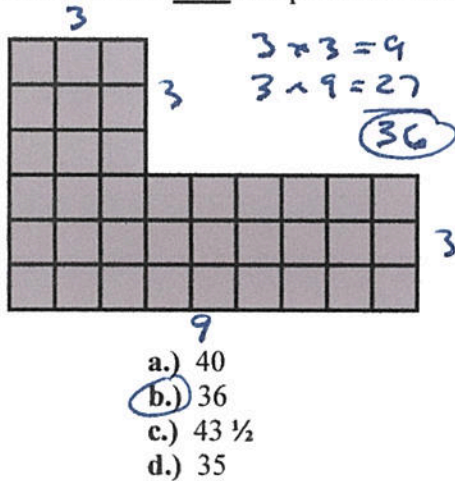
3<sup>rd</sup> Grade Math STAAR Warm-up Number 5

- 1.) Which point best represents  $20\frac{1}{2}$  on the number line below?

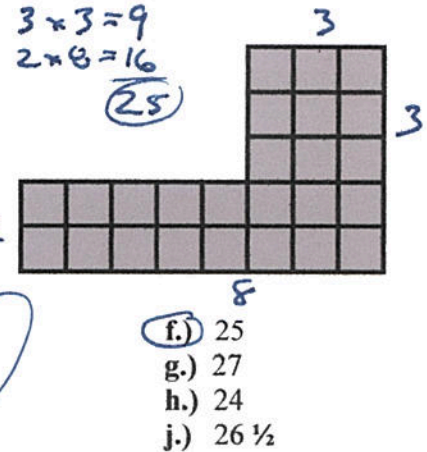


- a.) Point W      b.) Point X      c.) Point Y      d.) Point Z

- 2.) Calculate the area in square units of each shaded figure shown below.



= 1 square unit

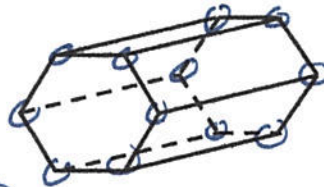


OR COUNT  
THE  
SQUARES  
ON A GRID

- 3.) Three numbers are chosen from a bag. The three numbers chosen are 4, 36 and 9. Which expression is in the same fact family as those numbers?

- a.)  $8 \times 4$       b.)  $36 - 9$       c.)  $9 + 4$       d.)  $36 \div 9$

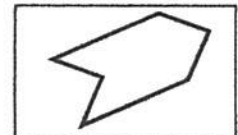
- 4.) A three-dimensional figure called a hexagonal prism is shown below. How many vertices does this figure have?



$V = 12$   
6 on each side

- f.) 8      g.) 12      h.) 18      j.) 24

- 5.) Which figure is congruent to this figure shown in the box to the right?

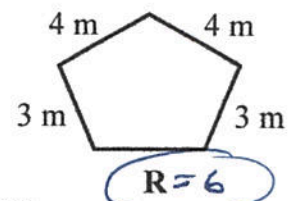


- a.)      b.)      c.)      d.) Not Here

- 6.) The pentagon to the right has a perimeter of 20 meters.  $3 + 3 + 4 + 4 = 14$

Calculate or find the length of side 'R' of the pentagon.

$$\begin{array}{r} 20 \\ -14 \\ \hline 6 \end{array}$$

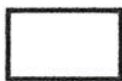


- f.) 4 meters      g.) 6 meters      h.) 12 meters      j.) 34 meters

Name: SOLUTION

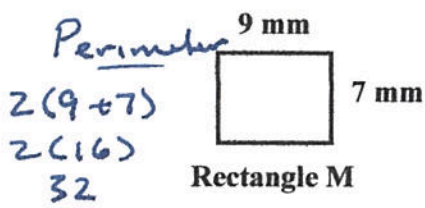
3<sup>rd</sup> Grade Math STAAR Warm-up Number 6

- 1.) Which is a true statement about the figures shown below?

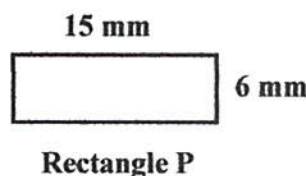


- a.) All shapes are quadrilaterals  
b.) All shapes are circles  
c.) All shapes are hexagons  
d.) All shapes are polygons

- 2.) The dimensions of two rectangles M and P are shown below.



Per P > Per M  
42 > 32  
by 10 mm



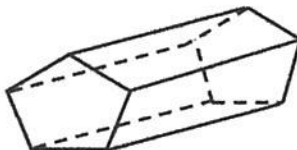
Perimeter  
2(15+6)  
2(21)  
42

- f.) The perimeter of Rectangle M is 5 millimeters less than the perimeter of Rectangle P  
g.) The perimeter of Rectangle M is 10 millimeters less than the perimeter of Rectangle P  
h.) The perimeter of Rectangle M is 3 millimeters less than the perimeter of Rectangle P  
j.) The perimeter of Rectangle M is 41 millimeters less than the perimeter of Rectangle P
- 3.) Katie has 4 bags of candy that have 12 pieces of candy in each bag. Brenda has 5 bags of candy with 15 candy pieces in each bag. What is the difference in candy pieces between Katie's and Brenda's bags?

- a.) 33      b.) 45      c.) 123      d.) 27

$$\begin{array}{r} 12 \times 4 = 48 \\ 15 \times 5 = 75 \\ 75 - 48 = 27 \end{array}$$

- 4.) A three-dimensional figure called a pentagonal prism is shown below. How many edges does this figure have?



- f.) 7      g.) 10      h.) 15      j.) 24

- 5.) Which number sentence is represented on the number line shown below?



- a.)  $4 \times 13 = 52$       b.)  $13 - 4 = 9$       c.)  $4 + 9 = 13$       d.)  $13 \div 4 = 9$

- 6.) Timothy sold the following number of glasses of lemonade over 3 days in July.

- ☐ On July 3<sup>rd</sup>, he sold 34 glasses of lemonade  
☐ On July 4<sup>th</sup>, he sold 78 glasses of lemonade  
☐ On July 5<sup>th</sup>, he sold 23 glasses of lemonade

$$\begin{array}{r} 34 \\ + 78 \\ 23 \\ \hline 135 \end{array}$$

How many glasses of lemonade did Timothy sell during the 3 days in July?

- f.) 234      g.) 456      h.) 125      j.) 135

- 7.) What is the sum of the hundreds and ten thousands digits in the following number: 36,401

- a.) 5      b.) 7      c.) 10      d.) 9

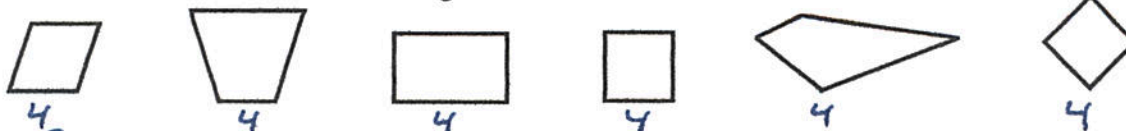
$$3 + 4 = 7$$



Name: SOLUTION

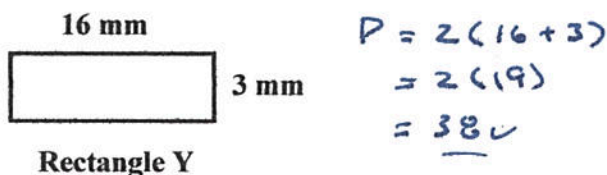
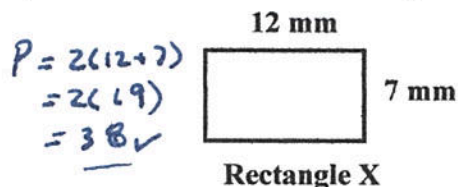
3<sup>rd</sup> Grade Math STAAR Warm-up Number 7

- 1.) Which is a true statement about the figures shown below?



- a.) All shapes are quadrilaterals  
b.) All shapes are circles  
c.) All shapes are hexagons  
d.) All shapes are rectangles

- 2.) The dimensions of two rectangles are shown below.



- f.) The perimeter of Rectangle X is 12 millimeters less than the perimeter of Rectangle Y  
g.) The perimeter of Rectangle X is 3 millimeters more than the perimeter of Rectangle Y  
h.) The perimeter of Rectangle X is 9 millimeters less than the perimeter of Rectangle Y  
j.) The perimeter of Rectangle X is equal to the perimeter of Rectangle Y
- 3.) Jesus has 5 bags of candy that have 11 pieces of candy in each bag. Betty has 7 bags of candy with 20 candy pieces in each bag. What is the sum of candy pieces in Jesus' and Betty's bags?

a.) 55

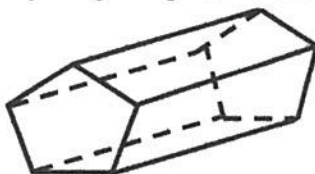
b.) 43

c.) 195

d.) 140

$$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array} \quad \begin{array}{r} 20 \\ \times 7 \\ \hline 140 \end{array} \quad \begin{array}{r} 140 \\ + 55 \\ \hline 195 \end{array}$$

- 4.) A three-dimensional figure called a pentagonal prism is shown below. How many faces does this figure have?



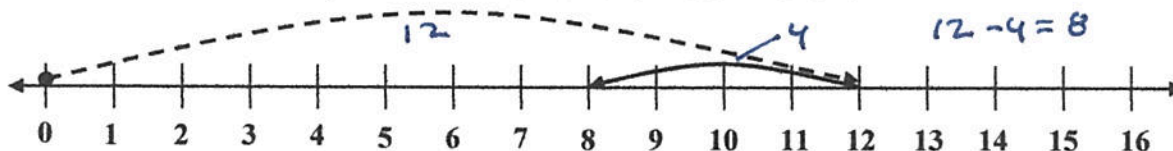
f.) 7

g.) 10

h.) 15

j.) 24

- 5.) Which number sentence is represented on the number line shown below?



a.)  $4 + 12 = 16$

b.)  $12 - 4 = 8$

c.)  $4 + 8 = 12$

d.)  $12 \times 4 = 48$

- 6.) Griselda counted cars for three days last week by her house. The number of cars she counted is listed below.

- ☐ On Tuesday, she counted 38 cars  $\checkmark$   
☐ On Wednesday, she counted 53 cars  $\times$   
☐ On Friday, she counted 64 cars  $\checkmark$

$$\begin{array}{r} 64 \\ - 38 \\ \hline 26 \end{array}$$

What was the difference of cars she counted on Friday than on Tuesday?

f.) 11

g.) 26

h.) 15

j.) 155

- 7.) What is  $40,000 + 2,000 + 10 + 9$  in standard place value form? 42,019

a.) 4,219

b.) 42,291

c.) 42,019  $\checkmark$

d.) 420,219



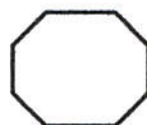
Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 8

- 1.) Which is a true statement about the two figures shown below?



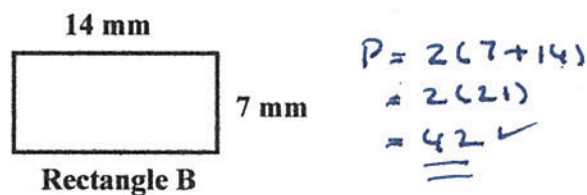
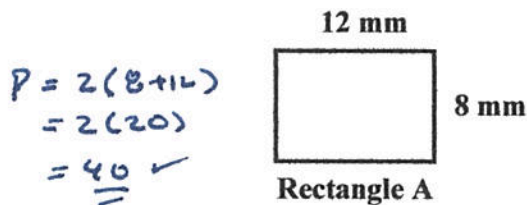
Hexagon  
6 sides



~~Pentagon~~ Octagon  
8 sides

- a.) One figure is a hexagon and the other is an octagon  
b.) One figure is a pentagon and the other a hexagon  
c.) Both figures are pentagons  
d.) Both figures have 6 sides

- 2.) The dimensions of two rectangles are shown below.



Which statement below is true?

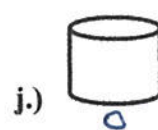
- f.) The perimeter of Rectangle A is 108 millimeters (mm).  
g.) The perimeter of Rectangle A is 42 millimeters (mm).  
h.) The perimeter of Rectangle A is 40 mm and the perimeter of Rectangle B is 42 mm.  
j.) The perimeter of Rectangle A is 12 millimeters (mm) more than Rectangle B.

- 3.) Jessica wrote down a list of numbers: 14, 22, 30, 38, 46, 54, 62, 70, 78

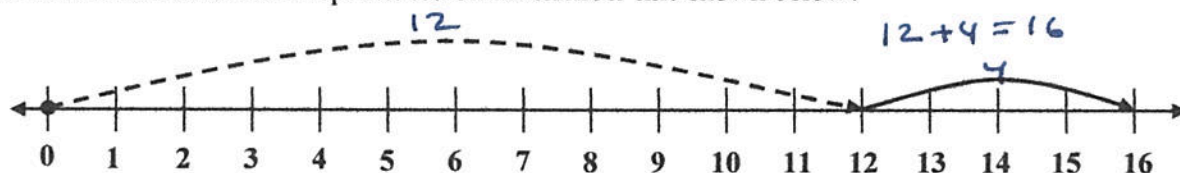
Which number would fit in Jessica's pattern of numbers?

- a.) 66  
b.) 55  
c.) 62 ✓  
d.) 43

- 4.) Which three dimensional figure below has exactly 6 vertices?



- 5.) Which number sentence is represented on the number line shown below?



- a.)  $4 + 12 = 16$   
b.)  $12 - 4 = 8$   
c.)  $4 + 8 = 12$   
d.)  $12 \times 4 = 48$

- 6.) The Graham Elementary Garden Club harvested all the carrots, pumpkins, and potatoes in their garden.

- ☐ 341 carrots were collected from the garden. ✓ 340  
☐ 258 pumpkins were collected from the garden.  
☐ 485 potatoes were collected from the garden. ✓ 490

$490 - 340$

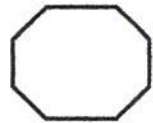
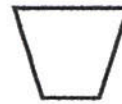
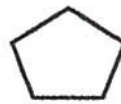
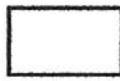
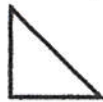
Which expression is the best way to estimate the difference between the number of carrots and the number of potatoes collected from the Graham Elementary Garden?

- f.)  $340 + 490$   
g.)  $340 - 260$   
h.)  $490 - 340$   
j.)  $480 - 340$

Name: Solution

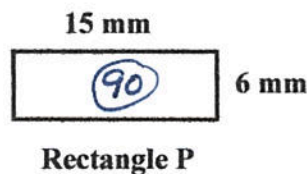
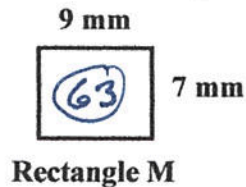
3<sup>rd</sup> Grade Math STAAR Warm-up Number 9

- 1.) Which is a true statement about these figures shown below?



- a.) All shapes are quadrilaterals no  
 b.) All shapes are polygons ✓  
 c.) All shapes are pentagons no  
 d.) All shapes are hexagons no

- 2.) The dimensions of two rectangles are shown below.

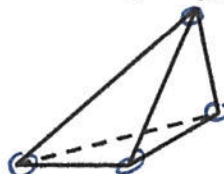


$$\begin{array}{r} 90 \\ -63 \\ \hline 27 \end{array}$$

- f.) The area of Rectangle M is 15 square millimeters less than the area of Rectangle P  
 g.) The area of Rectangle M is 63 square millimeters less than the area of Rectangle P  
 h.) The area of Rectangle M is 27 square millimeters less than the area of Rectangle P ✓  
 j.) The area of Rectangle M is 90 square millimeters less than the area of Rectangle P
- 3.) Lisa loves numbers. Her favorite number has a 3 in the hundreds place and a 5 in the thousands place. Which number below has a 3 in the hundreds place and a 5 in the thousands place?

- a.) 215,431      b.) 433,531      c.) 345,309      d.) 891,350 x

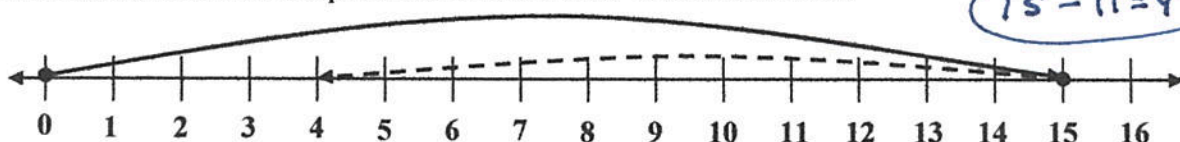
- 4.) A three-dimensional figure called a triangular pyramid is shown below. How many vertices does this space figure have?



4 Vertices

- f.) 6      g.) 10      h.) 6      j.) 4

- 5.) Which number sentence is represented on the number line shown below?



- a.)  $15 \times 4 = 60$       b.)  $15 - 11 = 4$       c.)  $4 + 11 = 15$       d.)  $15 \div 11 = 4$

- 6.) Camille sold the following number of glasses of punch over 3 days in August.

- ☐ On August 6<sup>th</sup>, he sold 34 glasses of punch  
☐ On August 7<sup>th</sup>, he sold 78 glasses of punch ✓  
☐ On August 8<sup>th</sup>, he sold 23 glasses of punch ✓

$$\begin{array}{r} 78 \\ +23 \\ \hline 101 \end{array}$$

How many glasses of punch did she sell on August 7<sup>th</sup> and August 8<sup>th</sup>?

- f.) 112      g.) 111      h.) 122      j.) not here

- 7.) Sum the following fractions:  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$

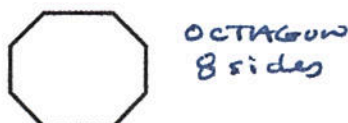
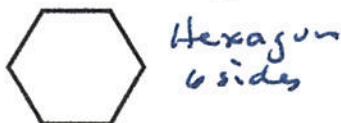
- a.)  $\frac{3}{12}$       b.)  $\frac{3}{4}$       c.)  $\frac{4}{3}$       d.) not here



Name: Solution

3<sup>rd</sup> Grade Math STAAR Warm-up Number 10

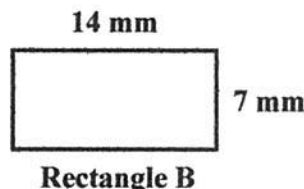
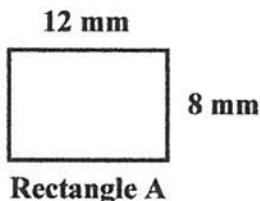
- 1.) Which is a true statement about the two figures shown below?



- a.) One figure has 2 more sides than the other  
 b.) One figure is a hexagon  
 c.) One figure is an octagon  
 d.) All statements are true about the two figures

- 2.) The dimensions of two rectangles A and B are shown below.

Perimeter  
 $2 \times (8 + 12)$   
 $2 \times (20)$   
40



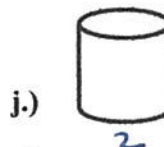
Perimeter  
 $2 \times (14 + 7)$   
 $2 \times (21)$   
42

Which statement below is true?

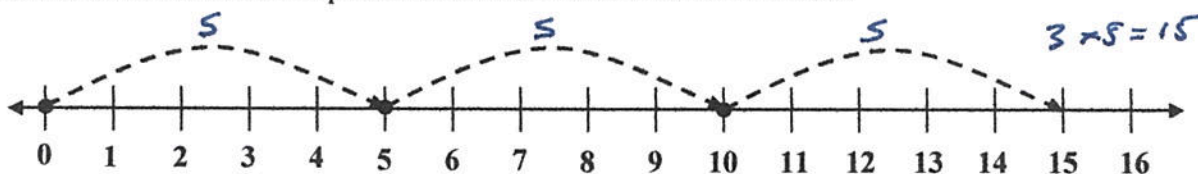
- f.) The perimeter of Rectangle B is 108 millimeters.  
 g.) The perimeter of Rectangle B is 42 millimeters.  
 h.) The perimeter of Rectangle B is 40 millimeters.  
 j.) The perimeter of Rectangle B is 96 millimeters.
- 3.) Priscilla wrote down a list of numbers: 25, 50, 75, 100, 125, 150, 175, 200, 225, 250  
 Which number would fit Priscilla's pattern of numbers? (careful)

- a.) 175  
 b.) 155 x  
 c.) 215 x  
 d.) 195 x

- 4.) Which three dimensional figure below has exactly 6 faces?



- 5.) Which number sentence is represented on the number line shown below?



- a.)  $3 + 12 = 15$   
 b.)  $12 - 3 = 15$   
 c.)  $10 + 5 = 15$   
 d.)  $5 \times 3 = 15$

- 6.) The Graham Elementary Garden Club harvested carrots, pumpkins and potatoes from their garden.

- ☐ 241 carrots were collected from the garden. ✓ 240  
☐ 255 pumpkins were collected from the garden. ✓ 260  
☐ 489 potatoes were collected from the garden. x

Which expression is the best way to estimate the sum of the number of carrots and the number of pumpkins collected from the Graham Elementary Garden?

- f.)  $250 + 240$   
 g.)  $260 - 240$   
 h.)  $260 + 240$   
 j.)  $490 - 240$

Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 11

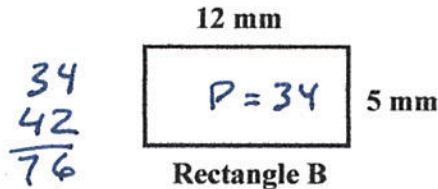
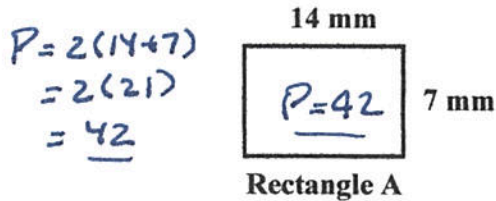
- 1.) John has 3 bags of rocks with 13 rocks each. He also has 6 bags of rocks with 12 rocks each. What is the total number of rocks in the 9 bags?

a.) 72  
b.) 111

c.) 39  
d.) 101

$$\begin{array}{r} 13 \\ \times 3 \\ \hline 39 \end{array} \quad \begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array} \quad \begin{array}{r} 39 \\ 72 \\ \hline 111 \end{array}$$

- 2.) The dimensions of two rectangles are shown below.



$$\begin{array}{r} 34 \\ 42 \\ \hline 76 \end{array}$$

Which statement below is true?

- f.) The sum of the perimeters of both Rectangle A and Rectangle B is 108 millimeters.  
g.) The sum of the perimeters of both Rectangle A and Rectangle B is 34 millimeters.  
h.) The sum of the perimeters of both Rectangle A and Rectangle B is 76 millimeters.  
j.) The sum of the perimeters of both Rectangle A and Rectangle B is 42 millimeters.

- 3.) Jesus and Kevin listed out some numbers: 4, 11, 18, 25, 32, 39, 46, 53, 60, 67  
Which number would fit Jesus' and Kevin's pattern of numbers?

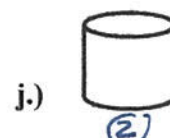
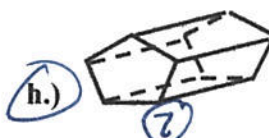
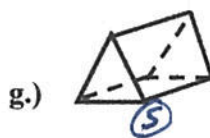
a.) 44

b.) 54

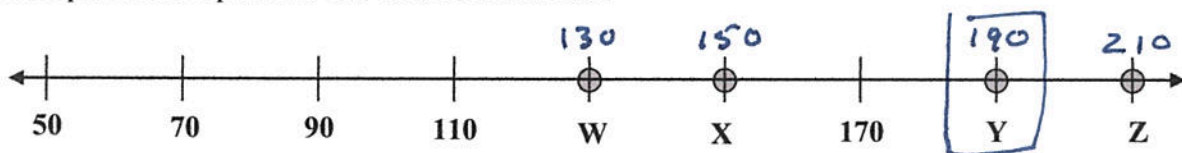
c.) 53

d.) 57

- 4.) Which three dimensional figure below has exactly 7 faces?



- 5.) Which point best represents 190 on the number line?



a.) Point W

b.) Point X

c.) Point Y

d.) Point Z

- 6.) Jill arranged 18 glasses on 2 shelves in her mother's house. There will be an equal number of glasses on each of the two shelves.



How many glasses will be on each shelf?

f.) 36, because  $18 \times 2 = 36$

g.) 9, because  $18 \div 2 = 9$

h.) 20, because  $18 + 2 = 20$

j.) 16, because  $18 - 2 = 16$

- 7.) Andreas shaded part of a figure as shown to the right. What fraction of the figure is shaded?

a.)  $\frac{4}{6}$

b.)  $\frac{6}{2}$

c.)  $\frac{2}{6}$

d.) not here





Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 12

- 1.) Katrina had 458 birthday invitations. She passed 149 invitations to her friends on Monday. What number represents the number of invitations Katrina has left to pass out to her other friends?

a.) 309  
b.) 607

c.) 311  
d.) not here

$$\begin{array}{r} 458 \\ - 149 \\ \hline 309 \end{array}$$

- 2.) The table below shows the total number of letters with different numbers of stamps.

Letters	
Number of Letters	Number of Stamps
3	21
5	35
7	49
10	70
14	98

Rule  
 $\times 7 \rightarrow$   
 $\div 7 \leftarrow$

Each letter has the same number of stamps. What is the total number of stamps on 7 letters?

a.) 56

b.) 42

c.) 49

d.) 63

- 3.) Griselda listed out some numbers: 4, 16, 28, 40, 52, 64, 76, 88, 100. Which number would fit Griselda's pattern of numbers?

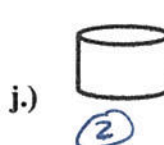
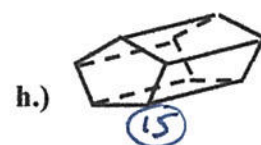
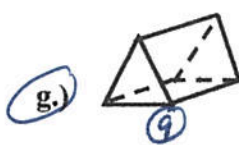
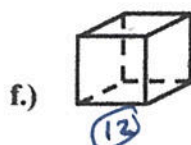
a.) 72

b.) 60

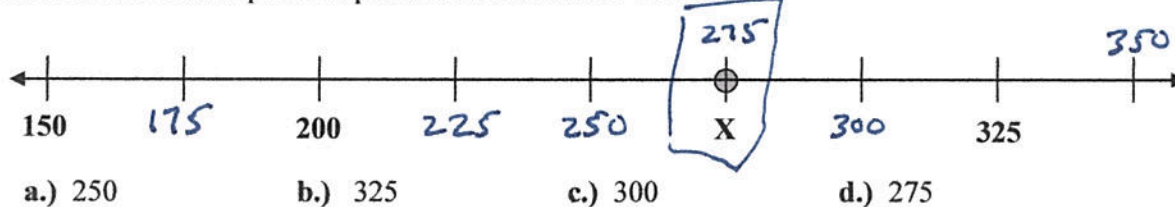
c.) 88

d.) 61

- 4.) Which three dimensional figure below has exactly 9 edges?



- 5.) Which number best represents point X on the number line below?



- 6.) Demetrick arranged 15 glasses on 3 shelves in his mother's house. There will be an equal number of glasses on each of the three shelves.



How many glasses will be on each shelf?

f.) 45, because  $15 \times 3 = 45$

g.) 5, because  $15 \div 3 = 5$

h.) 18, because  $15 + 3 = 18$

j.) 15, because  $15 - 3 = 12$

- 7.) Andreas shaded part of a figure as shown to the right. What fraction of the figure is NOT shaded?

a.)  $\frac{5}{7}$

b.)  $\frac{7}{5}$

c.)  $\frac{2}{7}$

d.) not here



Name: SOLUTION3<sup>rd</sup> Grade Math STAAR Warm-up Number 13

- 1.) Julie had 551 birthday invitations. She passed 237 invitations to her friends on Friday. What number represents the number of invitations Julie has left to pass out to her other friends?

a.) 309  
b.) 607

c.) 314  
d.) not here

$$\begin{array}{r} 551 \\ - 237 \\ \hline 314 \end{array}$$

- 2.) The table below shows the total number of celebrations with different numbers of balloons.

Celebrations		Number of Balloons
Number of Celebrations		
6	+5	11
9	+5	14
10	+5	15
13	+5	18
14	+5	19

Rule:  
+5 →  
-5 ←

Each celebration has the same number of balloons. What is the total number of balloons for 13 celebrations?

a.) 55

b.) 16

c.) 17

d.) 18

- 3.) Latrese has a bag of blocks. The blocks are all the same size but they are different colors. There are 15 red blocks, 12 blue blocks, and 5 yellow blocks in the bag. Latrese will choose 1 of these blocks out of the bag at random without looking. What statement about Latrese's choice is true?

a.) It is certain the Latrese will choose a red block. nob.) Latrese is less likely to choose a yellow block than a blue block. yesc.) Latrese is more like to choose a blue block than a red block. no

d.) It is impossible for Latrese to choose a yellow block.

- 4.) Ms. Jackson is thinking of a number with a 5 in the ones place and a 2 in the thousands place. Of the numbers below, which number could be the number Ms. Jackson is thinking?

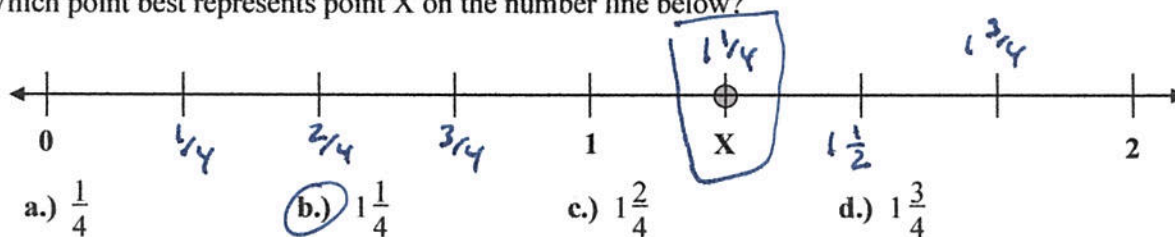
f.) 345,432

g.) 4,342,951

h.) 562,345

j.) 452,504

- 5.) Which point best represents point X on the number line below?



- 6.) Gabriel placed cards into 8 rows. Each row had 32 cards. How many total cards were there in Gabriel's pattern of cards?

f.) 246

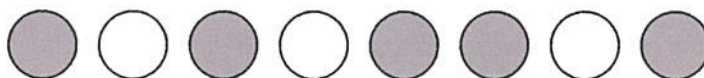
g.) 256 (circled in blue)

h.) 40

j.) 24

$$\begin{array}{r} 32 \\ \times 8 \\ \hline 256 \end{array}$$

- 7.) Samantha shaded part of a figure as shown below. What fraction of the circles are shaded?



5/8

a.) 4/8

b.) 3/8

c.) 5/8 (circled in blue)

d.) not here



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 14

- 1.) Jorge had 323 coins in his penny collection. He found another 178 pennies looking through his piggy bank to put in his collection. How many pennies does Jorge have in his collection?

a.) 145  
b.) 607

c.) 401  
d.) not here

$$\begin{array}{r} 323 \\ + 178 \\ \hline 501 \end{array}$$

- 2.) The table below shows the total number of letters with different numbers of stamps.

Letters	
Number of Letters	Number of Stamps
5	$\times 6$ 30
6	$\times 6$ 36
9	$\times 6$ 54
11	$\times 6$ 66
16	$\times 6$ 96

Rule  
 $\times 6 \rightarrow$   
 $\div 6 \leftarrow$

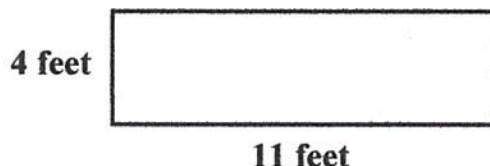
Each letter has the same number of stamps. What is the total number of stamps on 9 letters?

a.) 56

b.) 42

c.) 54  $9 \times 6 = 54$  d.) 63

- 3.) Jimmy used a stick and drew a rectangle in the sand. The width and length of the rectangle's sides are shown below.



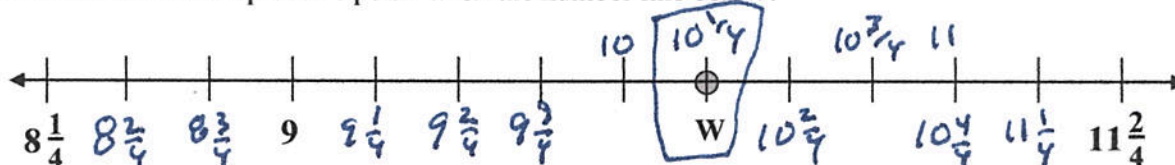
$$\begin{aligned} \text{Perimeter} &= 2(4 + 11) \\ &= 2(15) \\ &= 30 \checkmark \end{aligned}$$

Jimmy has 28 feet of string. Will that be enough string to go completely around his rectangle in the sand?

- f.) Yes, because  $11 + 4 = 15$  and  $15 < 28$   
g.) No, because  $4 + 11 + 4 + 11 = 30 > 28$   
h.) Yes, because  $4 \times 11 = 44 > 28$   
j.) No, because  $11 - 4 = 7 < 28 - 11 = 17$

No  $28 < 30$

- 4.) Which number best represents point W on the number line below?



a.) 10

b.)  $9 \frac{1}{4}$

c.)  $10 \frac{1}{4}$

d.)  $10 \frac{3}{4}$

- 5.) Ismael made some spiders in art class. He placed the spiders in 4 rows. Each row had the same number of spiders. One of the rows of spiders is shown below.



8 spiders each row

How many spiders are in the 4 rows?

- f.) 32, because  $8 \times 4 = 32$   
g.) 8, because  $8 + 0 = 8$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

- h.) 24, because  $21 + 3 = 24$   
j.) 16, because  $8 \times 2 = 16$

Name: SOLUTION

3rd Grade Math STAAR Warm-up Number 15

- 1.) Christopher collects rocks when he goes for walks with his mother each night. He has a total of 846 rocks in his collection. On Sunday, he gave his sister 378 rocks. How many rocks are in his rock collection after he gave his sister the 378 rocks?

- a.) 1,224  
b.) 468

- c.) 578  
d.) 533

$$\begin{array}{r} 846 \\ -378 \\ \hline 468 \end{array}$$

- 2.) The left column is the 'IN' column, and the right column is the 'OUT' column.

What comes OUT?

IN	OUT
13	3
16	6
17	7
22	12
29	19

Rule  
-10 →  
+10 ←

Based on this pattern, if 36 is placed in the "IN" column, what number is in the "OUT" column?

a.) 16

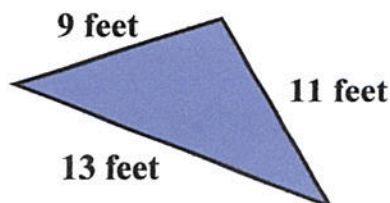
b.) 6

c.) 26

d.) 36

$$\begin{array}{r} 36 \\ -10 \\ \hline 26 \end{array}$$

- 3.) The sides of a triangular garden are shown to the right.

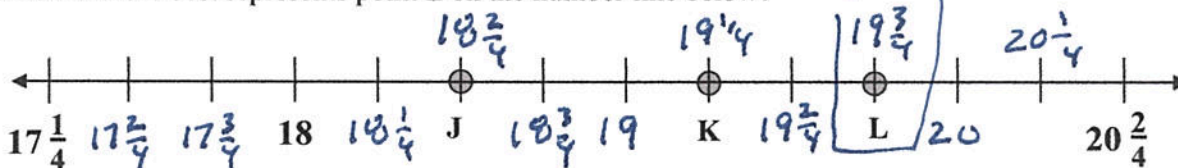


Jose is going to place rocks around the outside edge of the garden. He has 35 feet of rock. Will there be enough feet of rock to go completely around his triangular garden?

- f.) Yes, because  $11 + 13 + 9 = 33$  and  $33 < 35$   
g.) No, because  $9 + 11 + 13 = 32$  and  $32 > 35$   
h.) Yes, because  $9 \times 11 = 99$  and  $99 > 35$   
j.) Not possible

Perimeter  
 $9 + 11 + 13 = 33$  feet  
 $33 \text{ feet} < 35 \text{ feet}$   
yes

- 4.) Which number best represents point L on the number line below?



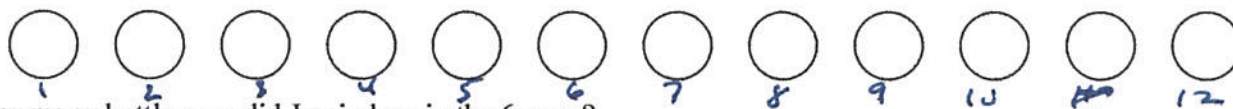
a.) 19

b.)  $19\frac{1}{4}$

c.)  $19\frac{3}{4}$

d.)  $19\frac{2}{4}$

- 5.) Jessi placed some bottle caps into rows. She placed the caps in 6 rows. Each row had the same number of bottle caps. One of the rows of bottle caps is shown below.



How many bottle caps did Jessi place in the 6 rows?

h.) 12

i.) 18

j.) 72

k.) 102

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$



Name: SOLUTION3<sup>rd</sup> Grade Math STAAR Warm-up Number 16

- 1.) Anabel has 14 packages of candy with that each contain 6 pieces. Anabel gives 20 pieces of candy of candy to his friend, Jose. Which number sentence shows a way to find the number of pieces of candy that Anabel has left?

a.)  $14 \times 6 + 20 = 104$

b.)  $14 \times 6 - 20 = 64$

$$\begin{array}{r} 14 \\ \times 6 \\ \hline 84 \\ -20 \\ \hline 64 \end{array}$$

c.)  $14 + 6 + 20 = 40$

d.)  $6 \times 14 + 6 = 90$

- 2.) The left column is the 'IN' column, and the right column is the 'OUT' column.

## What comes OUT?

IN	OUT
11	3
14	6
15	7
20	12
27	19

$$\begin{array}{r} 42 \\ -8 \\ \hline 34 \end{array}$$

Rule:  
 $-8 \rightarrow$   
 $+8 \leftarrow$

Based on this pattern, if 42 is placed in the "IN" column, what number is in the "OUT" column?

a.) 16

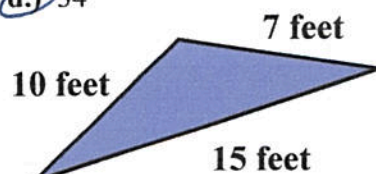
b.) 6

c.) 26

d.) 34

- 3.) The sides of a triangular garden are shown to the right.

Garden = 32 feet perimeter  
 Only has 30 feet NO



Yasmin is going to place rocks around the outside edge of the garden. She has 30 feet of rock. Will there be enough feet of rock to go completely around her triangular garden?

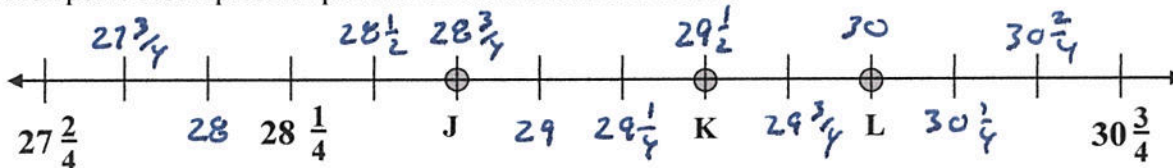
f.) Yes, because  $15 + 10 + 7 = 32$  and  $32 < 30$

h.) Yes, because  $7 \times 10 = 70$  and  $70 > 30$

g.) No, because  $7 + 10 + 15 = 32$  and  $32 > 30$

j.) Not possible

- 4.) Which point best represents point K on the number line below?



a.) 29

b.)  $29 \frac{1}{4}$

c.)  $29 \frac{3}{4}$

d.)  $29 \frac{2}{4}$

- 5.) Elena placed some marbles into rows. He placed the marbles in 3 rows. Each row had the same number of marbles. One of the rows of marbles is shown below.



$$9 \div 3 = 27$$

How many marbles did Elena place in the 3 rows?

h.) 9

i.) 27

j.) 11

k.) 102

- 6.) Sergio wrote the following number on the classroom white board: **49,023**.

Which is the correct way to write Sergio's number in base 10 expanded notation?

a.)  $(4 \times 10,000) + (9 \times 100) + (2 \times 10) + (3 \times 1)$

c.)  $(49 \times 10,000) + (2 \times 10) + (3 \times 1)$

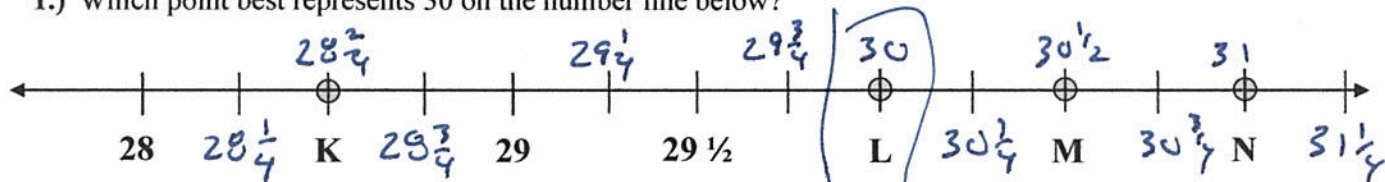
b.)  $(4 \times 10,000) + (9 \times 1,000) + (2 \times 10) + (3 \times 1)$

d.)  $(4 \times 10,000) + (9 \times 1,000) + (2 \times 100) + (3 \times 1)$

Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 17

1.) Which point best represents 30 on the number line below?



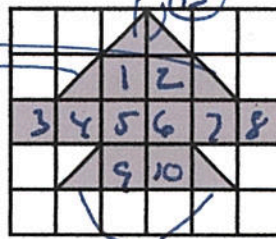
- a.) Point K      b.) Point L      c.) Point M      d.) Point N

2.) Calculate the difference of the two areas in square units of both shaded figures shown below.



$A = 19$

$\square = 1$  square unit



$A = 13$

- f.) 4      g.) 6      h.) 18      j.) 24

3.) Jacqueline counted students in three 5<sup>th</sup> grade classes at Garcia Elementary. The number of children she counted in each class is listed below.

- ☐ In Ms. Koch's class, she counted 19 students ✓
- ☐ In Ms. Aleman's class, she counted 26 students
- ☐ In Ms. Valencia's class, she counted 25 students ✓

$$\begin{array}{r} 19 \\ + 25 \\ \hline 44 \end{array}$$

What was the sum of students in Ms. Koch's class and Ms. Valencia's class?

- a.) 1      b.) 6      c.) 44      d.) 51

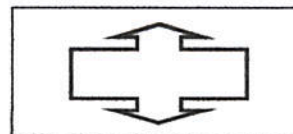
4.) A three-dimensional figure called a triangular prism is shown below. How many faces does this figure have?

$F = 5$



- f.) 5      g.) 9      h.) 6      j.) Not here

5.) Which figure is congruent to this figure shown in the box?



- a.)      b.)      c.)      d.)

6.) How is the number 4,078 written in expanded form?

- f.)  $4,000 + 8$       g.)  $400 + 70 + 8$       h.)  $4,000 + 700 + 8$       j.)  $4,000 + 70 + 8$

7.) Which statement about the number 8,888 is true?

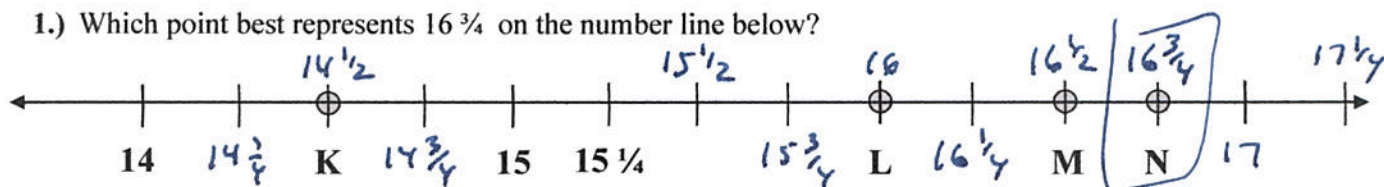
- a.) There is an 8 in the tens place, so 8 times 10 equals 8. ~~NO TRUE~~  $8 \times 10 = 80$
- b.) There is an 8 in the hundreds place, so 8 times 100 equals 80. ~~NOT TRUE~~  $8 \times 100 = 800$
- c.) There is an 8 in the hundreds place, so 8 times 100 equals 800. **TRUE**
- d.) There is an 8 in the thousands place, so 8 times 1,000 equals 80,000. ~~NOT TRUE~~  $8 \times 1,000 = 8,000$



Name: Southern

3rd Grade Math STAAR Warm-up Number 18

1.) Which point best represents  $16\frac{3}{4}$  on the number line below?



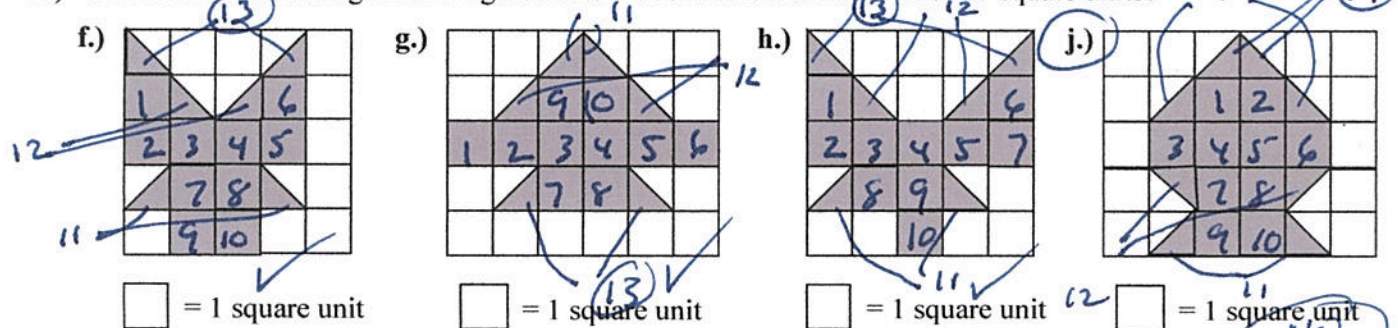
a.) Point K

b.) Point L

c.) Point M

d.) Point N

2.) Which of the following shaded figures below does **NOT** have an area of 13 square units?



3.) David counted students in three different grade levels at Perez Elementary. The number of children she counted in each grade level is listed below.

- ☐ In 3<sup>rd</sup> grade, she counted 165 students ✓
- ☐ In 4<sup>th</sup> grade, she counted 126 students
- ☐ In 5<sup>th</sup> grade, she counted 139 students ✓

$$\begin{array}{r} 165 \\ -139 \\ \hline 26 \end{array}$$

What was the difference of students between the 3<sup>rd</sup> grade and 5<sup>th</sup> grade?

a.) 304

b.) 255

c.) 39

d.) 26

4.) How is the number 5,967 written in expanded form?

f.)  $5,000 + 900 + 60 + 7$

g.)  $5,900 + 60 + 7$

h.)  $5,000 + 900 + 7$

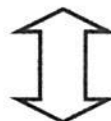
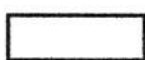
j.)  $5,000 + 600 + 90 + 7$

5.) Latrese drew these figures and called them *kezars*.



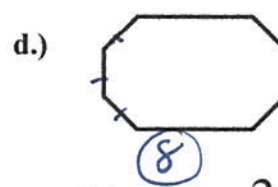
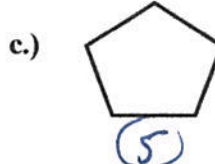
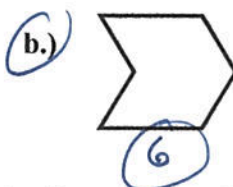
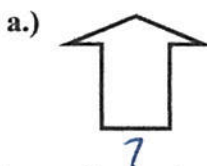
6 sided figure is kezars

These figures are not *kezars*.



do not have 6 sides

Which figure below is a *keza*?



6.) The number to the right is either even or odd, AND may be written in expanded notation. 308

f.) even -  $(300 + 80)$

g.) odd -  $(300 + 8)$

h.) even -  $(30 + 8)$

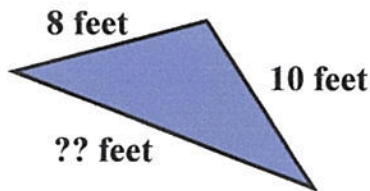
j.) even -  $(300 + 8)$

even (300 + 8)

Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 19

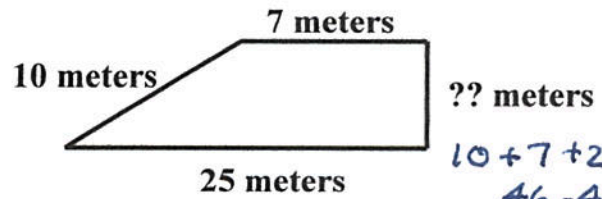
- 1.) Find the missing side of each polygon (a triangle and a trapezoid) if the perimeter is provided.



$$8 + 10 = 18$$

$$30 - 18 = 12 \checkmark$$

Triangle's perimeter = 30 feet



$$10 + 7 + 25 = 42$$

$$46 - 42 = 4$$

Trapezoid's perimeter = 46 meters

- a.) 60  
b.) 48  
c.) 13  
d.) 12

- f.) 2  
g.) 3  
h.) 4  
j.) 5

- 2.) Miguel wanted to make orange juice for his family for breakfast. He made 12 pints of juice and there are 2 cups in each pint. Which expression is in the same fact family as  $2 \times 12 = 24$ ?

- a.)  $24 \times 2$   
b.)  $24 - 2$   
c.)  $24 \div 12$   
d.)  $12 + 24$

- 3.) The table below shows the number of children in different classrooms.

Number of Classrooms	Total Number of Children in the Classrooms
5	12
6	13
11	
14	21
16	23

Rule:  
 $+7 \rightarrow$   
 $-2 \leftarrow$

If there is the same number of children in each classroom, what is one way to find the total number of children in the 11 classrooms?

- f.) Find the product of 16 and 11  
g.) Find the sum of 7 and 11  
h.) Find the difference of 11 and 7  
j.) Find the product of 7 and 11

- 4.) The table below shows the total number of birds in a number of cages. If there are the same number of birds in each cage, what is the total number of birds in 4 cages?

Many, Many Birds in a lot of Cages

Number of Cages	2	4	7	8
Total Number of Birds	28		98	112

Rule:  
 $\times 14 \downarrow$

- a.) 30, because  $28 + 2 = 30$   
b.) 56, because  $14 \times 4 = 56$   
c.) 70, because  $98 - 28 = 70$   
d.) 42, because  $14 \times 3 = 42$

- 6.) In which empty square would the number 2,833 make the comparison true?

- f.)  $2,990 > \boxed{2,833} > 2,850$  NO  
g.)  $2,910 > \boxed{2,833} > 2,902$  NO  
h.)  $2,825 < \boxed{2,833} < 2,950$  YES  
j.)  $2,452 < \boxed{2,833} < 2,720$  NO



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 20

1.) Angie has some toy cars that she places in a bag. The toys are all the same size but they are different colors. There are 10 red cars, 13 blue cars, and 7 yellow cars in the bag. Angie will choose 1 of these cars out of the bag at random without looking. What statement about Angie's choice is true?

- a.) Angie is less likely to choose a blue car than a red car. *NO MORE BLUE*
- b.) It is certain the Angie will choose a blue car. *NO*
- c.) Angie is more likely to choose a blue car than a yellow car. *yes Blue > yellow*
- d.) It is impossible for Angie to choose a yellow car.

2.) Zoe writes down a number with a 3 in the ones place and a 6 in the hundreds place. Of the numbers below, which of the numbers could be the one that Zoe wrote on her paper?

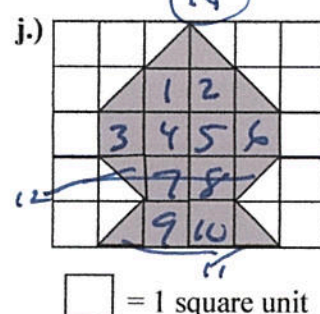
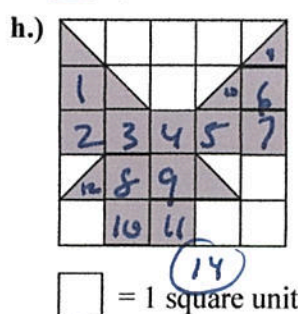
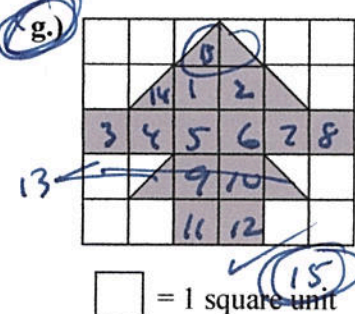
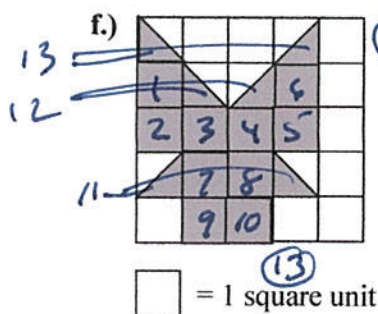
f.) 545,632

g.) 7,342,653

h.) 962,346

j.) 856,503

3.) Which of the following shaded figures below has an area of 15 square units?



4.) What is the fraction of the shaded figures shown to the right?

a.)  $\frac{3}{7}$

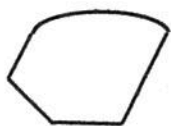
b.)  $\frac{7}{3}$

c.)  $\frac{4}{7}$

d.) Not Here



5.) Betty drew these figures and called them *lpizas*.

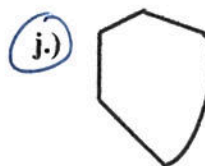
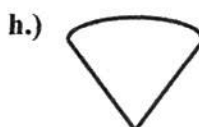
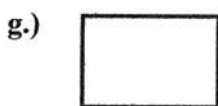
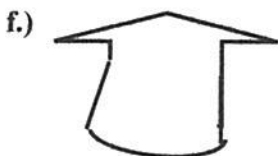


*LPIZAS*  
- Curved  
+ 4 sides

These figures are not *lpizas*.

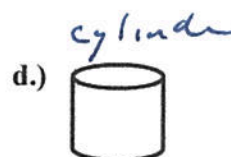
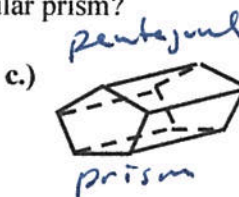
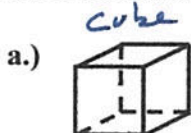


Which figure below is a *lpiza*?



*matches*  
curved + 4 sides

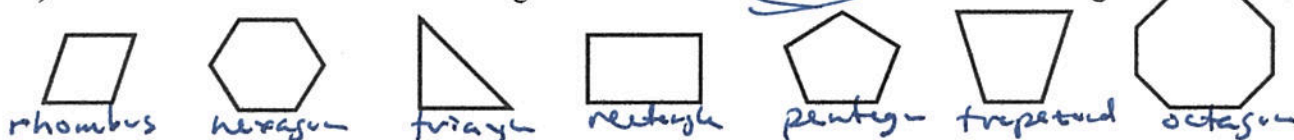
6.) Which three dimensional figure below is a triangular prism?



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 21

- 1.) Which is a true statement about the figures shown below? Write the name for each figure.



- f.) All shapes are quadrilaterals  
g.) All shapes are pentagons  
h.) All shapes are hexagons  
j.) All shapes are polygons

- 2.) The table below shows the total number of flower beds with different numbers of roses.

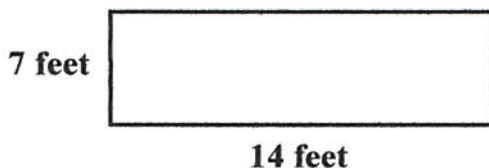
Flowers	
Number of Flower Beds	Total Number of Roses
6	42
8	56
12	
13	91
17	119

Row -  
 $\times 7 \rightarrow$   
 $\div 7 \leftarrow$

Each flower bed has the same number of roses. What is the total number of roses on 12 of those beds?

- a.) 65      b.) 78      c.) 84      d.) 88

- 3.) Ms. Nunez made a vegetable garden in her backyard. The width and length of the garden's sides are shown below.

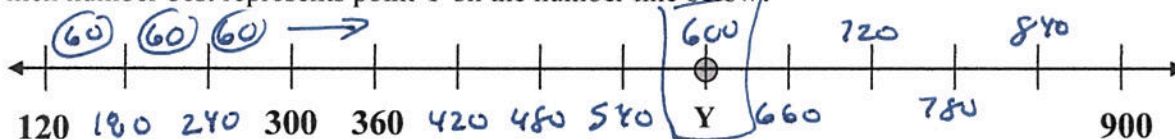


Perimeter =  $(14 + 7) \times 2$   
 $= 42$   
Area =  $14 \times 7$   
 $= 98$

What is the perimeter and area of Ms. Nunez's garden?

- f.) 21 feet, 98 feet<sup>2</sup>      g.) 42 feet, 98 feet<sup>2</sup>      h.) 98 feet, 21 feet<sup>2</sup>      j.) 42 feet, 21 feet<sup>2</sup>

- 4.) Which number best represents point Y on the number line below?



- a.) 480      b.) 540      c.) 600      d.) 660

- 5.) After the 3<sup>rd</sup> grade field trip to Cavern Bat Cave, Vanessa drew some pictures of bats. She placed the bats in 7 columns. Each column had the same number of bats. One of the columns of bats is shown below.



$7 \times 4 = 28$  ✓

How many bats are in the 7 columns?

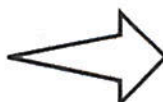
- f.) 28, because  $7 \times 4 = 28$       h.) 21, because  $3 \times 7 = 21$   
g.) 7, because  $7 + 0 = 7$       j.) 3, because  $7 - 4 = 3$



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 22

- 1.) Which is a true statement about the figures shown below?

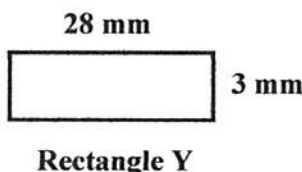
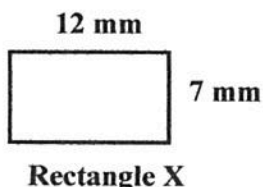


All Have  
6 Sides

- a.) All shapes are quadrilaterals  
b.) All shapes are circles  
c.) All shapes are hexagons  
d.) All shapes are rectangles

- 2.) The dimensions of two rectangles are shown below.

Area  
$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$



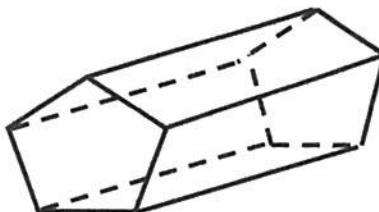
Area  
$$\begin{array}{r} 28 \\ \times 3 \\ \hline 84 \end{array}$$

- f.) The area of Rectangle X is 12 millimeters<sup>2</sup> less than the area of Rectangle Y  
g.) The area of Rectangle X is 3 millimeters<sup>2</sup> more than the area of Rectangle Y  
h.) The area of Rectangle X is 9 millimeters<sup>2</sup> less than the area of Rectangle Y  
j.) The area of Rectangle X is equal to the area of Rectangle Y
- 3.) Julie has 3 bags of candy that have 10 pieces of candy in each bag. Yessica has 4 bags of candy with 20 candy pieces in each bag. What is the difference in candy pieces between Julie's and Yessica's bags?

- a.) 55      b.) 50      c.) 195      d.) 110

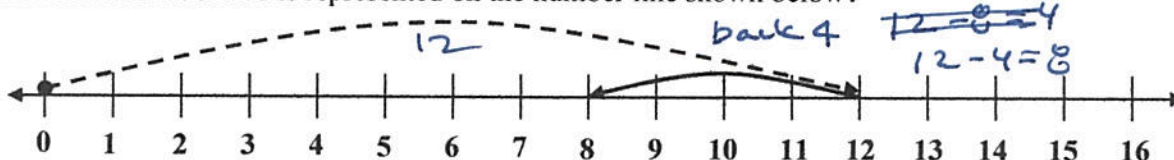
Yessica  
 $20 \times 4 = 80$   
Julie  
 $3 \times 10 = 30$   
$$\begin{array}{r} 80 \\ - 30 \\ \hline 50 \end{array}$$

- 4.) A three-dimensional figure called a pentagonal prism is shown below. How many faces does this figure have?



- f.) 7      g.) 10      h.) 15      j.) 24

- 5.) Which number sentence is represented on the number line shown below?



- a.)  $4 + 12 = 16$       b.)  $12 - 4 = 8$       c.)  $4 + 8 = 12$       d.)  $12 \times 4 = 48$

- 6.) Jane counted birds for three days last week by her house. The number of birds she counted is listed below.

- ☐ On Tuesday, she counted 38 birds ✓  
☐ On Wednesday, she counted 53 birds ✓  
☐ On Friday, she counted 64 birds ✓

What was the sum of birds she counted on Tuesday, Wednesday and Friday?

- f.) 11      g.) 26      h.) 102      j.) 155

$$\begin{array}{r} 38 \\ + 53 \\ + 64 \\ \hline 155 \end{array}$$

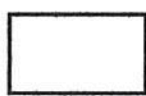
Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 23

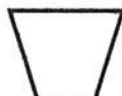
- 1.) Which is a true statement about the figures shown below? Write the name of each polygon below.



rhombus



rectangle



trapezoid



parallelogram



trapezoid



square

All quadrilaterals

f.) All shapes are quadrilaterals

g.) All shapes are pentagons

h.) All shapes are hexagons

j.) All shapes are octagons

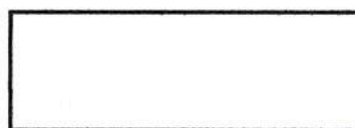
- 2.) Which three dimensional figure below has exactly 5 faces?



- 3.) A classroom computer station has the area shown by the rectangle below. Find the width of the computer station if the area is 40 square feet.

$$\begin{aligned} 12 \times 10 &= 40 \\ 4 \times 10 &= 40 \end{aligned}$$

12 ?? feet



10 feet

What is the width of the computer station in feet?

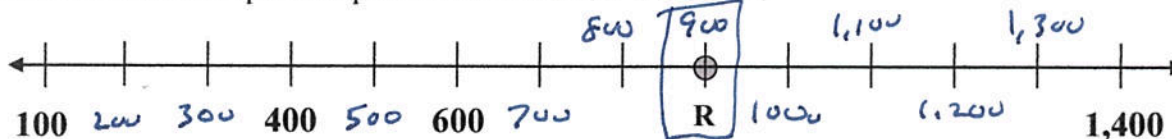
f.) 5 feet

g.) 3 feet

h.) 10 feet

j.) 4 feet

- 4.) Which number best represents point R on the number line below?



a.) 700

b.) 800

c.) 900

d.) 1,000

- 5.) Brenda made some pictures of origami hats at a party. She placed the hats in 6 columns. Each column had the same number of hats. One of the columns of hats is shown below.



$$6 \times 4 = 24$$

How many hats are in the 6 columns?

f.) 24, because  $6 \times 4 = 24$

g.) 6, because  $6 + 0 = 6$

h.) 30, because  $5 \times 6 = 30$

j.) 22, because  $21 - 1 = 22$

- 6.) A rancher gave his cows  $\frac{1}{8}$  of a pile of grass 5 days last week. Which equation can be used to find the amount of grass the rancher gave his cows last week?

a.)  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 12$

c.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$

b.)  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$

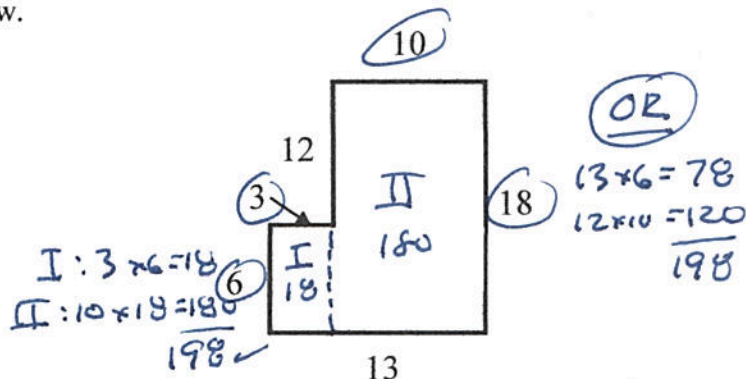
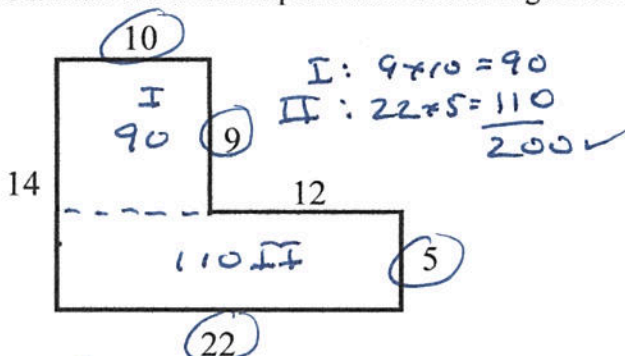
d.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{3}{8}$



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 24

1.) Calculate the area in square units of each figure below.



- a.) 200      c.) 150      f.) 179      h.) 230  
 b.) 210      d.) 234      g.) 198      j.) 330

2.) Which one of the choices below is **NOT** a member of the fact family of  $3 \times 12$ ?

- a.)  $12 \times 3$       b.)  $36 - 3$       c.)  $36 \div 12$       d.)  $36 \div 3$

3.) The table below shows the number of children in different classrooms.

Number of Classrooms	Total Number of Children in the Classrooms
5 +20	25
6 +20	26
11 +20	
14 +20	34
16 +20	36

Rule:  
 $+20 \rightarrow$   
 $-20 \leftarrow$

If there is the same number of children in each classroom, what is one way to find the total number of children in 11 classrooms?

- f.) Find the product of 20 and 11      h.) Find the difference of 20 and 11  
 g.) Find the sum of 20 and 11      j.) Find the product of 20 and 11

4.) The table below shows the number of 3<sup>rd</sup> graders at Baker Elementary. If there is the same number of students in each class, what is the total number of students in 3 classrooms?

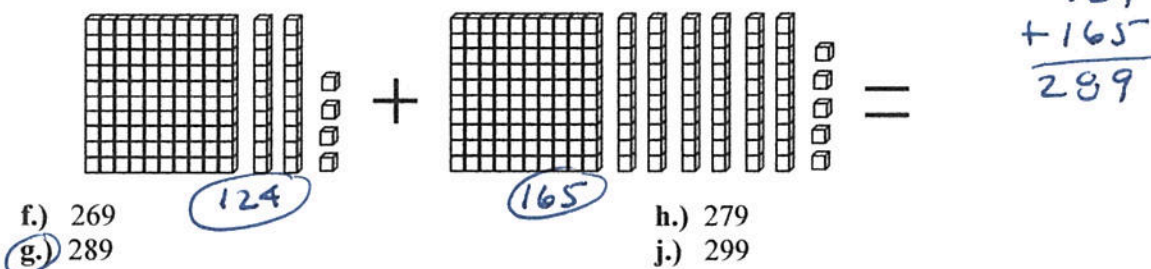
How Many 3<sup>rd</sup> Graders?

Number of Classrooms	2	3	5	7
Total Number of Students	18		45	63

$\times 9 \downarrow$

- a.) 32, because  $30 + 2 = 32$       c.) 27, because  $3 \times 9 = 27$   
 b.) 30, because  $3 \times 10 = 30$       d.) 23, because  $45 - 18 = 23$

5.) Add the two base 10 blocks amounts to find the Sum.

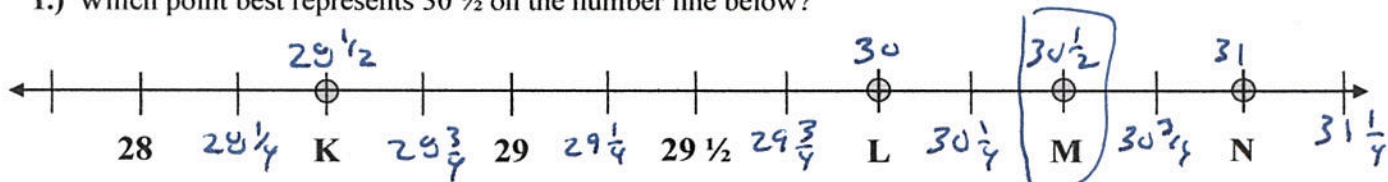


- f.) 269      h.) 279  
 g.) 289      j.) 299

Name: SOLUTION

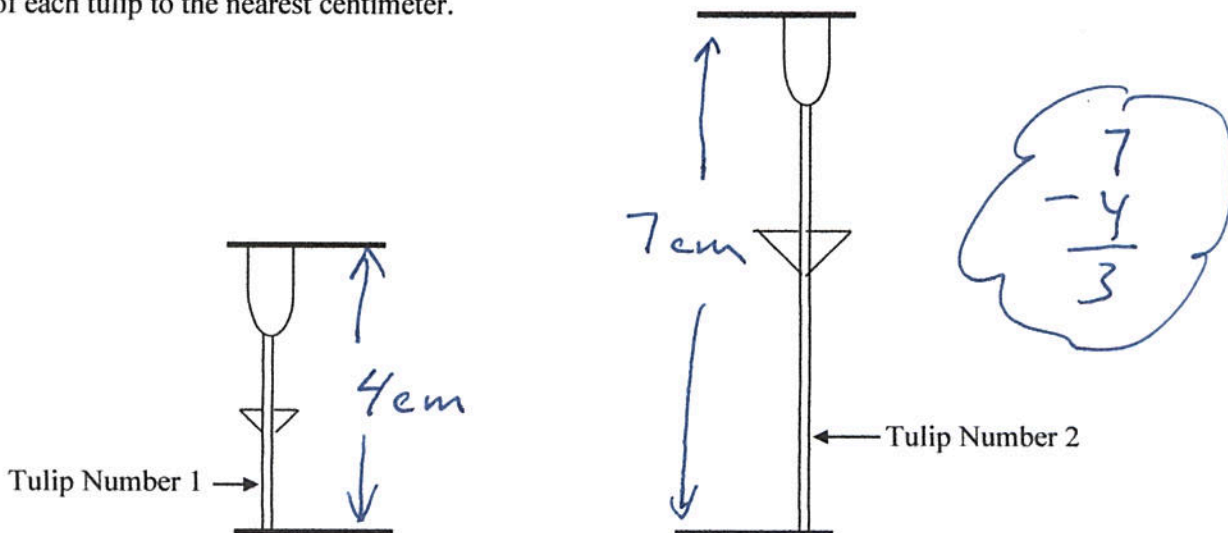
3<sup>rd</sup> Grade Math STAAR Warm-up Number 25

- 1.) Which point best represents  $30\frac{1}{2}$  on the number line below?



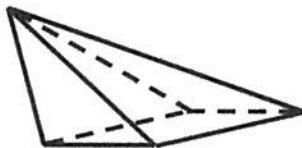
- a.) Point K      b.) Point L      c.) Point M      d.) Point N

- 2.) Shown below are the two tulips that grow in Jennifer's backyard. Use a ruler to measure the height of each tulip to the nearest centimeter.



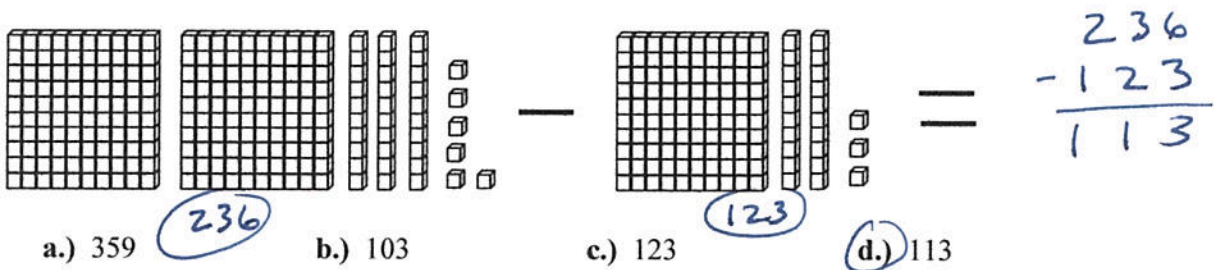
What is the difference in the height of these two tulips?

- a.) 3      b.) 6      c.) 44      d.) 51
- 3.) A three-dimensional figure called a rectangular pyramid is shown below. How many edges does this figure have?



- f.) 5      g.) 9      h.) 8      j.) 7

- 4.) Subtract the base 10 blocks below and find the difference?



- 5.) How is the number 8,326 written in expanded form?

- f.)  $8,000 + 200 + 30 + 6$       g.)  $8,000 + 20 + 6$       h.)  $8,000 + 300 + 20 + 6$       j.) Not here

Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 26

- 1.) Use the diagram of the fraction bar to answer the question below. FILL OUT THE TABLE.

1 WHOLE							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

Which list shows fractions in order from greatest to least?

F.)  $\frac{1}{3}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

G.)  $\frac{1}{3}, \frac{1}{4}, \frac{1}{6}, \frac{1}{8}$

H.)  $\frac{1}{8}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

- 2.) A bank or credit union give loans of money to people to buy houses and cars. However, the bank loans out the money with interest when it is paid back. What does interest mean on money that is borrowed?

A.) That people keep all the money they borrow from the bank. no

B.) That people pay back ONLY the money they borrow from the bank. no

C.) That people pay back the money plus some money in addition to the money they borrowed.

D.) That the bank pays people more money for free since they borrowed money from them.

- 3.) Ms. Garcia's class placed 12 large cookies into 4 boxes. If they placed an equal number of cookies in each box, how many cookies are put in each box?

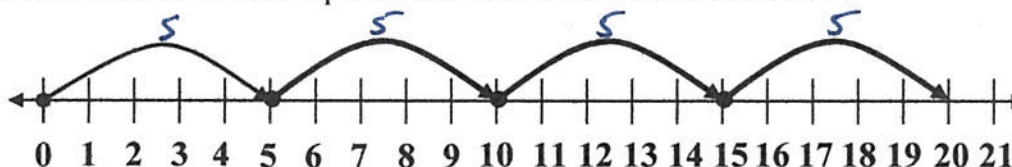
F.) 5 cookies

G.) 48 cookies

H.) 3 cookies

I.) 5 cookies

- 4.) Which number sentence is represented on the number line shown below?



$4 \times 5 = 20$

A.)  $20 \div 5 = 5$

B.)  $4 \times 5 = 20$

C.)  $20 - 4 = 5$

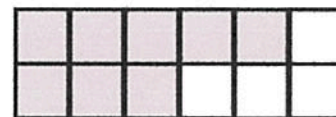
D.)  $4 + 5 = 9$

- 5.) Two fractions are given below.

$\frac{9}{15}$



$\frac{8}{12}$



Which expression correctly expresses their relationship?

A.)  $\frac{108}{15} < \frac{120}{12}$

B.)  $\frac{108}{15} > \frac{120}{12}$

C.)  $\frac{108}{15} = \frac{120}{12}$

D.) Not Here

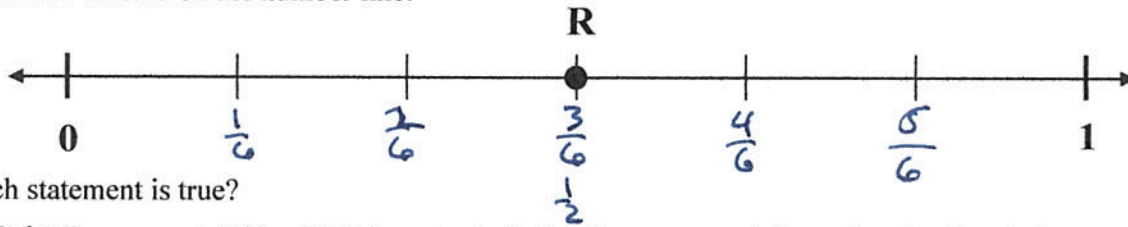
Cross-Multiply



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 27

- 1.) Point R is labeled on the number line.



Which statement is true?

- F.) Point R represents  $\frac{3}{6}$  and  $\frac{3}{5}$ , because both fractions represent 3 equal parts of a whole.  
 G.) Point R represents  $\frac{3}{6}$  and  $\frac{5}{6}$ , because both fractions represent 6 equal parts of a whole.  
 H.) Point R represents  $\frac{3}{6}$  and  $\frac{1}{2}$ , because both fractions are exactly halfway between 0 and 1 on a number line.  
 J.) Point R represents  $\frac{2}{6}$  and  $\frac{1}{2}$ , because both fractions are exactly halfway between 0 and 1 on a number line.

- 2.) A 3<sup>rd</sup> grader wants to put money in his savings account at his bank for ten years. What would be a reason a 3<sup>rd</sup> grade would want to save money for a long time?

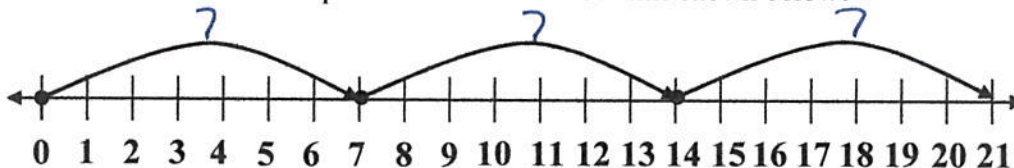
- A.) To purchase a toy at a store in town.  
 B.) To save for college so he can get an education for a career in medicine.  
 C.) To take a vacation with his friends when he finishes high school.  
 D.) To take the money out when he graduates high school and give the money to his 3<sup>rd</sup> grade teacher.

- 3.) The principal bought 9 Dairy Queen cards at a cost of 5 dollars for each card for students who make their reading goals. What was the total money the principal spent on the Dairy Queen cards?

- F.) 45 dollars      G.) 4 dollars      H.) 14 dollars      I.) Not here

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

- 4.) Which number sentence is represented on the number line shown below?

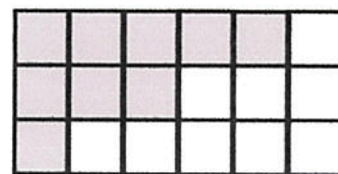
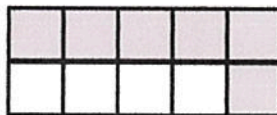


$$7 \times 3 = 21$$

- A.)  $21 \div 5 = 4$       B.)  $3 \times 7 = 21$       C.)  $21 - 7 = 14$       D.)  $7 + 7 = 14$

- 5.) Two fractions are given below.

$$\frac{6}{10}$$



$$\frac{9}{15}$$

Which expression correctly expresses their relationship?

- A.)  $\frac{6}{10} < \frac{8}{18}$       B.)  $\frac{6}{10} > \frac{8}{18}$       C.)  $\frac{6}{10} = \frac{8}{18}$       D.) Not Here

- 6.) Find the numbers that should be placed in the square and triangle that correctly solves the equation.

$$6 = \square \div 2$$

$$30 = 5 \times \triangle$$

- E.)  $\square = 12$  and  $\triangle = 6$       G.)  $\square = 12$  and  $\triangle = 6$       H.)  $\square = 3$  and  $\triangle = 6$

Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 28

- 1.) Use the diagram of the fraction bar to answer the question below. FILL OUT THE TABLE.

1 WHOLE							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$	
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

Which list shows fractions in order from least to greatest?

F.)  $\frac{1}{3}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

G.)  $\frac{1}{3}, \frac{1}{4}, \frac{1}{6}, \frac{1}{8}$

H.)  $\frac{1}{8}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

- 2.) Max's teacher asked him to write the equation below on his paper. He decided to solve the equation. What was Max's answer?

$12 = \square \div 3$

$36 \div 3 = 12$      $3 \times 12 = 36$   
 $36 \div 12 = 3$      $12 \times 3 = 36$

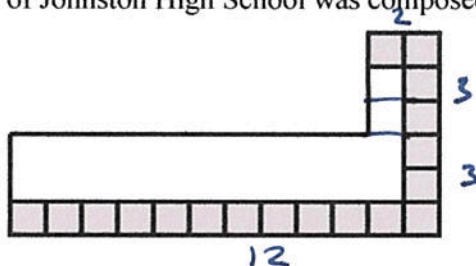
A.) 4.

B.) 48

C.) 36.

D.) 9

- 3.) The workroom floor of Johnston High School was composed of two rectangles as shown below.



$2 \times 3 = 6$   
 $3 \times 12 = 36$   
42

$\square = 1$  square yard

What is the **area** of the floor in square yards?

F.) 42 square yards

G.) 36 square yards

H.) 6 square yards

I.) 24 square yards

- 4.) Ms. Garcia purchased a can of soda from the vending machine. At the bottom of the can there is a unit of measure given. What is unit of measure located on every can of soda?

A.) tons

B.) fluid ounces

C.) feet

D.) ounces

- 5.) The lengths of 4 sides of a pentagon are shown in the diagram to the right.

$10 + 10 + 6 + 6 = 32$   
 $39$   
 $- 32$   
7

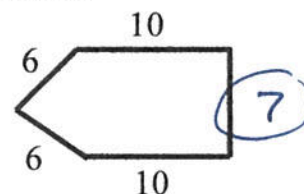
If the perimeter is 39 feet, what is the length of the missing side?

F.) 5 feet

G.) 6 feet

H.) 7 feet

I.) 8 feet



- 6.) About how many gallons of water does it take to completely fill a bathtub in at your house?

A.) 2 gallons

B.) 5 gallons

C.) 35 gallons

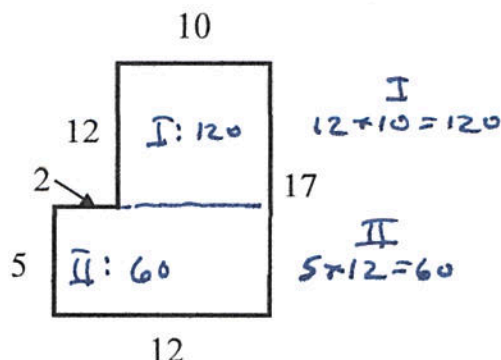
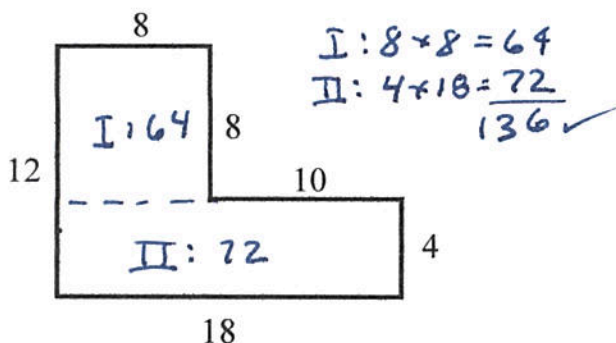
D.) 100 gallons



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 29

1.) Calculate the area in square units of each figure below.



- a.) 205  
**b.) 136**

- c.) 152  
 d.) 236

- f.) 180**  
 g.) 190

- h.) 200  
 j.) 210

2.) Which one of the choices below is NOT a member of the fact family of  $3 \times 10$ ?

- a.)  $10 \times 3$

- b.)  $36 - 10$**

- c.)  $30 \div 10$

- d.)  $30 \div 3$

3.) The table below shows the number of children in different classrooms.

Number of Classrooms	Total Number of Children in the Classrooms
5 $\times 5$	25
6 $\times 5$	30
12 $\times 5$	60
15 $\times 5$	75
16 $\times 5$	80

Rule:  
 $\times 5 \rightarrow$   
 $\div 5 \leftarrow$

If there is the same number of children in each classroom, what is one way to find the total number of children in 12 classrooms?

- f.) Find the product of 5 and 12**  
 g.) Find the sum of 5 and 12

- h.) Find the difference of 12 and 5  
 j.) Find the product of 12 and 6

4.) The table below shows the number of kindergartners at Padron Elementary. If there is the same number of students in each class, what is the total number of students in 4 classrooms?

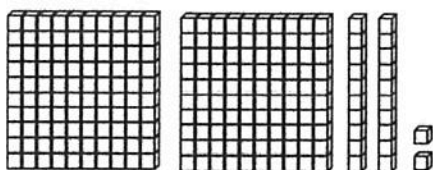
Number of Classrooms	3	4	8	9
Total Number of Students	18	24	48	54

$\times 6 \downarrow$

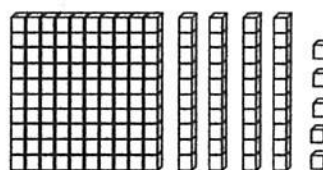
- a.) 36, because  $32 + 4 = 36$   
**b.) 24, because  $4 \times 6 = 24$**

- c.) 28, because  $4 \times 7 = 28$   
 d.) 33, because  $45 - 12 = 33$

5.) Add the two base 10 blocks amounts to find the Sum.



+



$$\begin{array}{r} 222 \\ + 145 \\ \hline 367 \end{array}$$

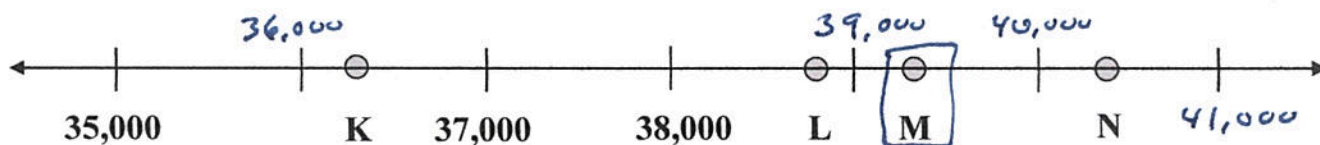
- f.) 327  
**g.) 389**

- h.) 257  
**j.) 367**

Name: SOLUTION

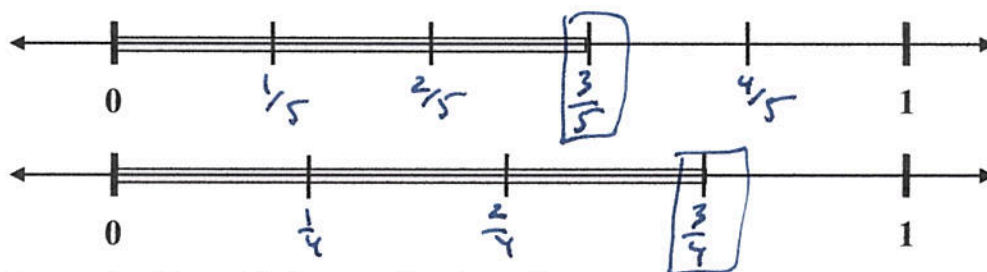
3<sup>rd</sup> Grade Math STAAR Warm-up Number 30

- 1.) Which point best represents 39,300 on the number line below?



- a.) Point K      b.) Point L      c.) Point M      d.) Point N

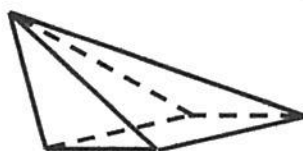
- 2.) Ariel shaded these two number lines to model two different fractions.



Based on the number lines, which comparison is true?

- A.)  $\frac{3}{5} < \frac{3}{4}$       B.)  $\frac{3}{5} > \frac{2}{3}$       C.)  $\frac{3}{5} = \frac{2}{3}$

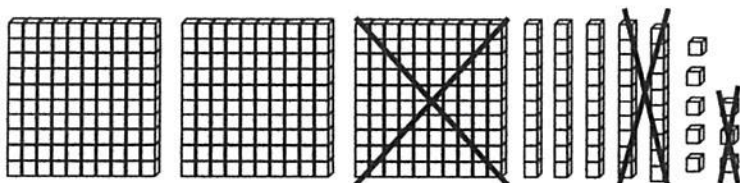
- 3.) A three-dimensional figure called a rectangular pyramid is shown below. How many faces does this figure have?



FACES = 5

- f.) 4      g.) 5      h.) 6      j.) 7

- 4.) Subtract the base 10 blocks below and find the difference?



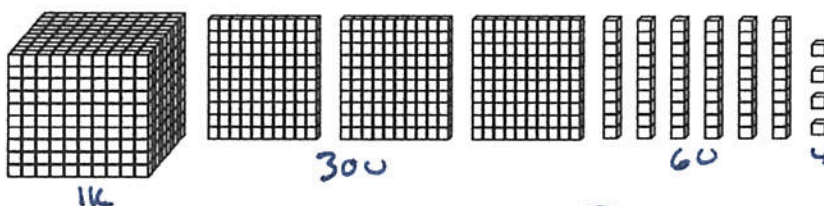
$$\begin{array}{r} 358 \\ - 123 \\ \hline 235 \end{array}$$

- a.) 130      b.) 235      c.) 275      d.) 245

- 5.) Ryan had 8 boxes of crayon with 12 in each box. He have 8 crayons away. How many does he have left?

- f.) 28      g.) 88      h.) 90      j.) Not here

- 6.) Name the number made by the following base 10 blocks.



- a.) 1,374      b.) 1,264      c.) 1,364      d.) 3,164

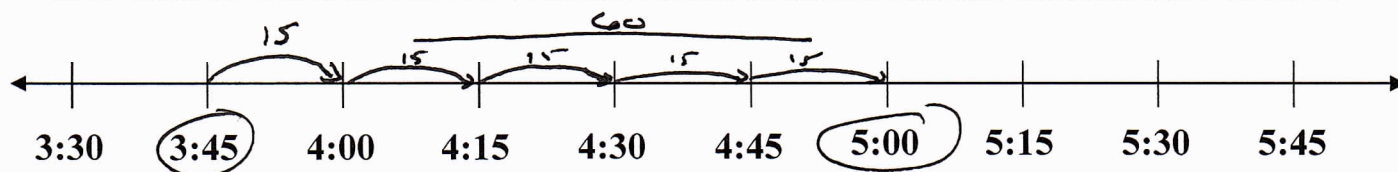
$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \\ - 8 \\ \hline 88 \end{array}$$

$$= 1,364$$

Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 31

- 1.) Jesus looked at his watch. The time was 3:45 P.M, and he began walking. After 15 minutes, he arrived at the store. He was at the store for 60 minutes before he left. At what time did Jesus leave the store?



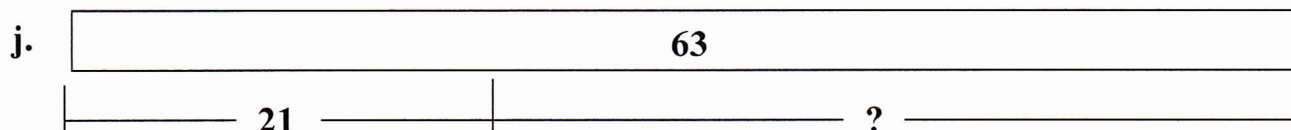
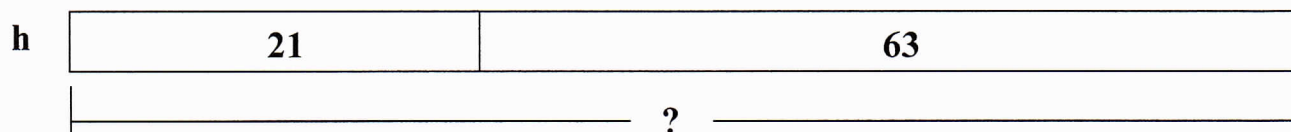
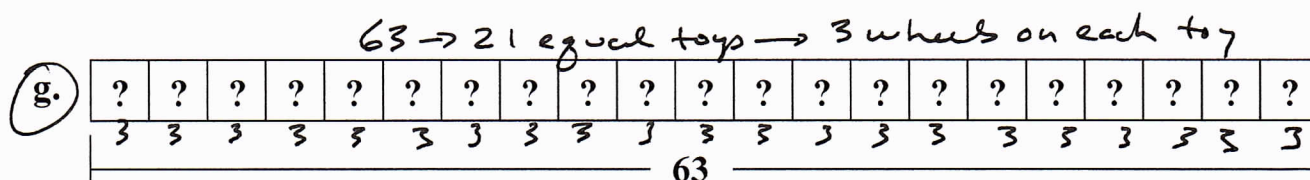
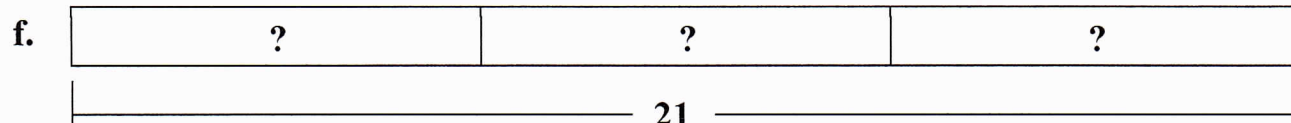
a.) 5:00

b.) 4:45

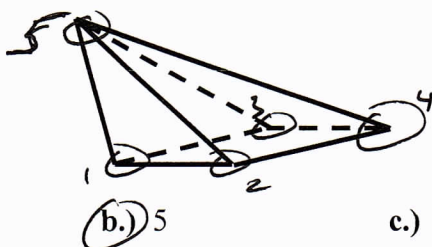
c.) 5:30

d.) 5:15

- 2.) Joseph made 21 toys. He used a total of 63 wheels to make the toys. If he put the same number of wheels on each toy, which diagram shows how to find the number of wheels Joseph put on each toy?



- 3.) A three-dimensional figure called a rectangular pyramid is shown below. How many vertices does this figure have?



a.) 4

b.) 5

c.) 6

d.) 7

- 4.) Blaine borrowed \$3,000 from a bank to purchase a car. He paid \$3,800 dollar back to the bank over the next four years. Which of these reasons is the reason that Blaine paid more back to the bank than he borrowed?

f.) Blaine had to pay sales tax on the car.

g.) Blaine made a mistake with his payments. The bank owes him \$800.

h.) Blaine had to pay interest on the loan to the bank.

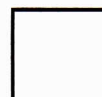
j.) Blaine added some extras on the new car and needed more money than \$3,000.



Name: SOLUTION

### 3<sup>rd</sup> Grade Math STAAR Warm-up Number 32

- 1.) Which is a true statement about the figures shown below? Write the name of each polygon below.



- All have  
4  
sides  
All are  
polygons

- 2.) Which statement is true about the number 56?

- (j.) It is even because the 6 is even in the ones place

- 3.) A classroom computer station triangular desk has a perimeter of 38 inches. Two of the sides of the triangle are 12 inches long. What is the length of the third side in inches?

12 12

- (j.) 14 inches

$$24 + ? = 38$$

- 4.) The sum of 5 ten thousands, 2 tens and 3 ones can be expressed as what number in standard form?

- d.) 52,030

$$\frac{5}{T_1}, \frac{0}{T_2}, \frac{0}{T_3}, \frac{2}{T_4}, \frac{3}{T_5}$$

- 5.) Brenda's father built an L-Shaped doghouse as shown in the diagram below. What is the total area of the L-Shaped doghouse in square feet?

- $\square = 1$  square foot

- $$\begin{array}{r} 32 \\ + 12 \\ \hline 44 \text{ sq feet} \end{array}$$

- 
- Diagram of an L-shaped polygon. The left vertical side is labeled 3. The bottom horizontal side is divided into two segments, each labeled 4. The right vertical side is labeled 8. The area of the left square is circled and labeled 12. The area of the right square is circled and labeled 32. The text "square foot" is written above the diagram.

- j.) 45 square feet

- 6.) The City of Dallas pays each fireman each month to keep people safe. Which factor would most likely **not** affect the amount of money the City of Dallas pays each fireman? *Commute time*

- Conversely, what DOES Affect a person's salary?

- 7.) What is the relationship between the ten thousands place and the thousands place in the number shown in the box below?

BASE 10

- f.) The ten thousands place is five times greater than the thousands place.  
**g.)** The ten thousands place is ten times greater than the thousands place.  
h.) The ten thousands place is five times less than the thousands place.  
i.) The ten thousands place is ten times less than the thousands place.

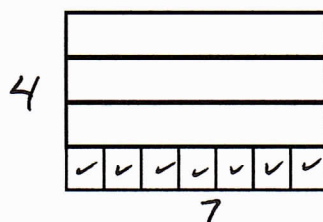
Name: SOLUTION


3<sup>rd</sup> Grade Math STAAR Warm-up Number 33

- 1.) A diagram of a rectangular floor is shown. The bottom row has been divided into squares of equal size.

The rest of the diagram will be divided into squares of the same size. What is the area in square units represented by this model?

$$7 \times 4 = 28$$



 = 1 square inch

- a.) 7 square inches  
b.) 21 square inches

- c.) 25 square inches  
d.) 28 square inches

- 2.) A racket ball team bought 7 boxes of racket balls. Each box contained 28 racket balls. How many total racket balls did the team purchase?

- f.) 35 racket balls  
g.) 196 racket balls

- h.) 21 racket balls  
j.) 56 racket balls

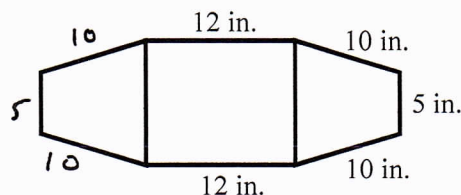
$$\begin{array}{r} 28 \\ \times 7 \\ \hline 196 \end{array}$$

- 3.) Yasmin cut a rug in the shape of a octagon. The octagon was divided into two congruent trapezoids and a rectangle. What is the **perimeter** of the octagonal rug?

- a.) 74 inches  
b.) 50 inches  
c.) 24 inches  
d.) Not here

$$\begin{array}{r} 49 \\ + 25 \\ \hline 74 \end{array}$$

$$\begin{array}{r} 10 \\ 10 \\ 5 \\ \hline 25 \end{array}$$



$$\begin{array}{r} 12 \\ 10 \\ 5 \\ 10 \\ 12 \\ \hline 79 \end{array}$$

- 4.) The sum of 8 ten thousands, 6 hundreds and 7 ones can be expressed as what number in standard form?

f.) 867

g.) 8,607

h.) 80,760

i.) 80,607

$$\begin{array}{r} 80,607 \end{array}$$


5. Jack made an L-Shaped garden as shown in the diagram below. What is the total area of the L-Shaped garden in square meters?

a.) 32 square meter

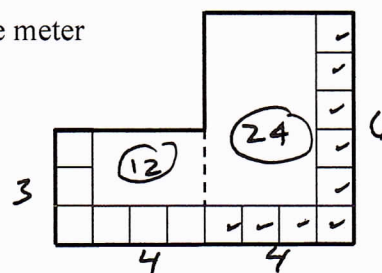
b.) 44 square meter

c.) 22 square meter

d.) 36 square meter

 = 1 square meter

$$\begin{array}{r} 24 \\ 12 \\ \hline 36 \end{array}$$



- 6.) Which of these statements describe the number in the box to the right?

25,072

f.) The sum of two ten thousands, five thousands, seven hundreds, one ten. 25,710

g.) The sum of two ten thousands, five thousands, seven tens, two ones. 25,072 ✓

h.) The sum of two ten thousands, five thousands, zero hundreds, seven tens, two ones. 25,072 ✓

i.) Both g.) and h.) are correct

Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 34

- 1.) Olga and Yessica started playing soccer at 2 P.M. Olga played for 35 minutes. Yessica played for 20 minutes longer than Olga.

Start Time



Olga finished at 2:35  
Yessica finished @ 2:55

What time did Yessica finish playing soccer?

a.



2:20

b.



2:35

c.



2:55

d.



2:25

- 2.) A 3<sup>rd</sup> grader collected small circular glass marbles. He purchased 9 boxes of marbles with 35 marbles in each box. How many total marbles did he buy?

f.) 44 marbles

g.) 26 marbles

h.) 315 marbles

j.) 305 marbles

$$\begin{array}{r} 4 \\ 35 \\ \times 9 \\ \hline 315 \end{array}$$

- 3.) John cut a rug in the shape of an octagon. The octagon was divided into two congruent trapezoids and a rectangle. What is the **perimeter** of the octagonal rug?

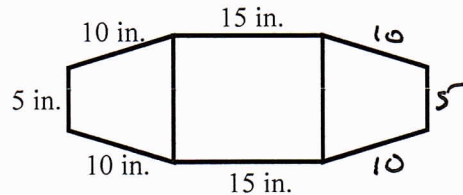
a.) 74 inches

b.) 80 inches

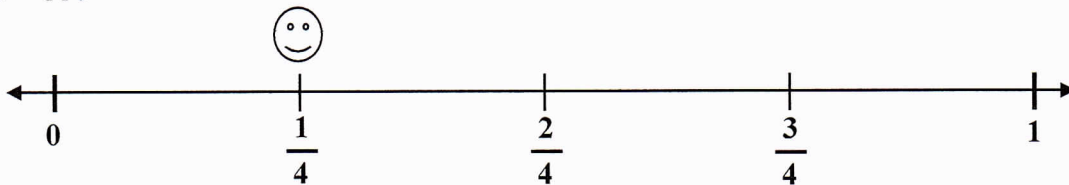
c.) 24 inches

d.) 60 inches

$$\begin{array}{r} 25 \\ 25 \\ \hline 30 \\ 80 \end{array}$$

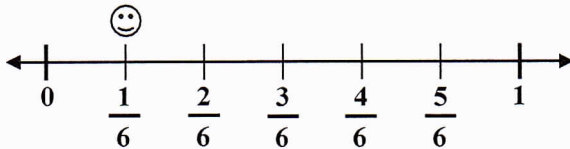


- 4.) Jose loves fractions. He adores fractional number lines. He marked  $\frac{1}{4}$  on the number line below with a smiling, happy face.

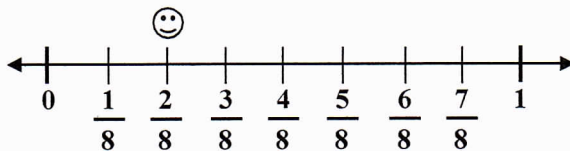


Which of these number line show a fraction that is equivalent to  $\frac{1}{4}$  marked with a smiling, happy face?

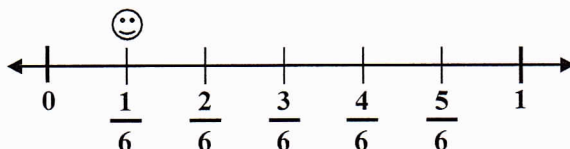
a.



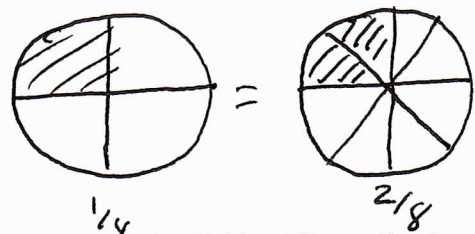
b.



c.

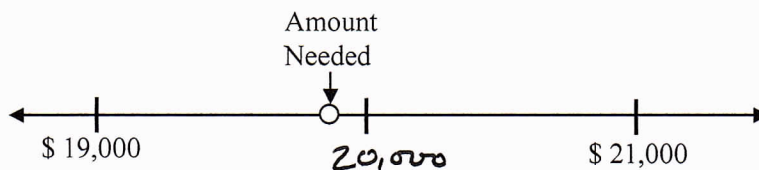


$$\begin{array}{r} 8 \swarrow \nearrow 8 \\ 1/4 = 2/8 \end{array}$$





- 1.) The point on the number line represents the amount needed to purchase a new car.

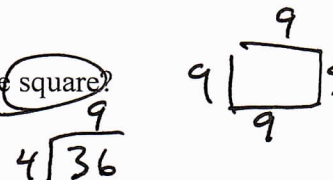


- a.) The amount of money needed is more than \$ 21,000.  
b.) The amount of money needed is less than \$ 19,000.  
c.) The amount of money needed is more than \$ 20,000.  
d.) The amount of money needed is less than \$ 20,000.

- 2.) The perimeter of a square is 36 meters. What is the length of a side on the square?

- f.) 18 meters  
g.) 6 meters

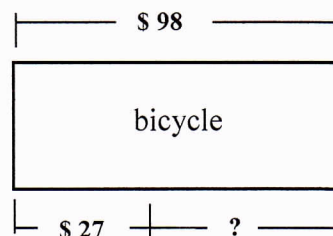
- h.) 9 meters  
j.) 10 meters



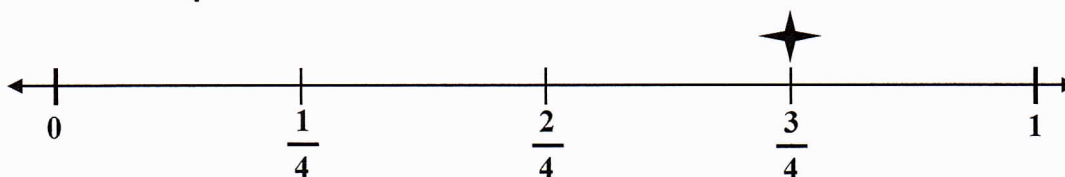
- 3.) Amanda wants to buy a bicycle that costs \$98. She has saved \$27 dollars, as shown in diagram or model show to the right. Which equation can be used to determine the amount of money that Amanda needs in order to purchase the bicycle?

- a.)  $98 + 27 = ?$   
b.)  $27 \times 98 = ?$   
c.)  $98 - 27 = ?$   
d.)  $98 \div 27 = ?$

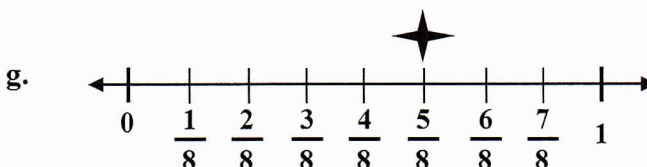
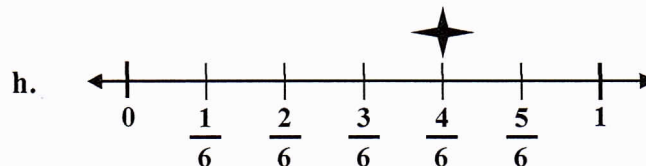
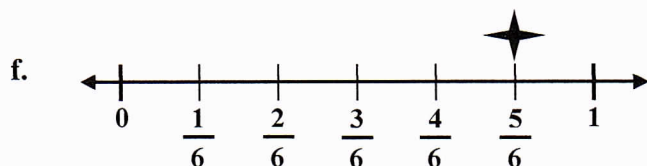
$$\begin{array}{r} 98 \\ - 27 \\ \hline ? \end{array}$$



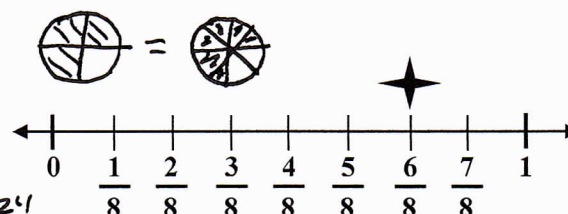
- 4.) Rose Marie marked  $\frac{3}{4}$  on the number below with a star.



Which of these number line show a fraction that is equivalent to  $\frac{3}{4}$  marked with a star?



j.



$$\begin{array}{r} 24 \\ \times 3 \\ \hline 72 \\ \times 30 \\ \hline 720 \\ \hline 720 \end{array}$$

1.) Which number list shows an order from greatest to least?

- a.) 52,010    ~~5,210~~    ~~4,200~~    16,008
- b.) ~~3,012~~    13,690    22,090    45,981  $L \rightarrow G$
- c.) 25,381 ✓    24,995 ✓    7,509    6,984 ✓
- d.) 92,546    ~~3,434~~    ~~9,200~~    768

2.) Betty has 4 packages of green candy drops and 2 packages of red candy drops. Each package had 8 pieces of candy drops. What was the total number of candy drops that Betty has?

f.) 6 candy drops

g.) 16 candy drops

$8 \times 4 = 32$

$8 \times 2 = \frac{16}{48}$

h.) 48 candy drops

j.) 32 candy drops

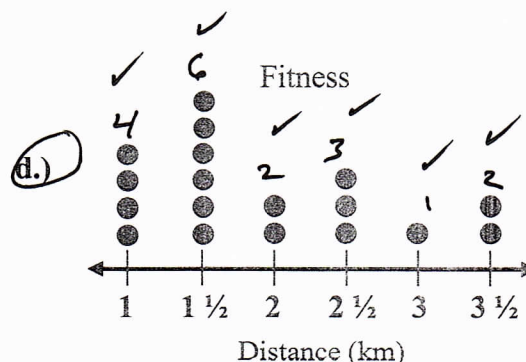
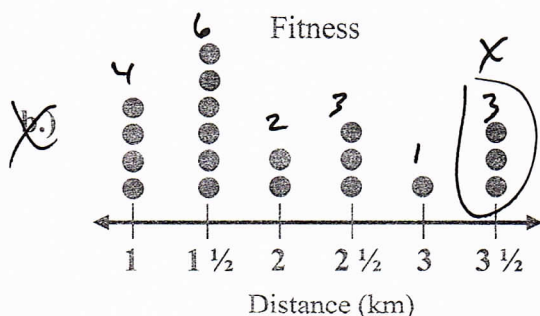
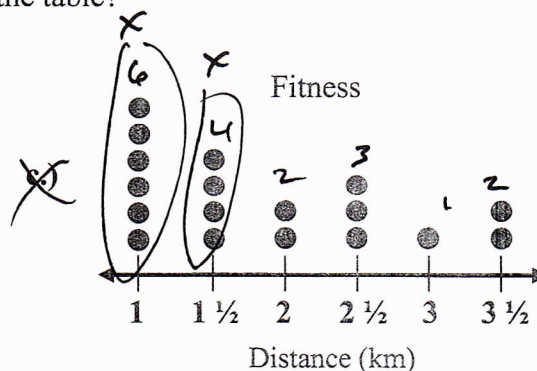
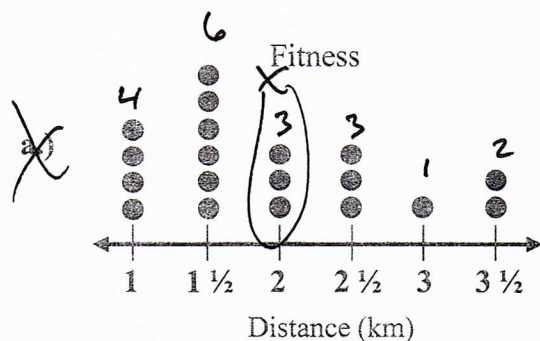
$(4 + 2) \times 8 = 48$

3.) Jesus walked 18 days for fitness. The table shows how many days he walked each distance in kilometers (km).

Fitness Table

Distance (km)	1	1 ½	2	2 ½	3	3 ½
Days	4 ✓	6 ✓	2 ✓	3 ✓	1 ✓	2 ✓

Which dot plot below correctly represents the data in the table?

4.) The **expanded form** of a number is shown to the right:  $80,000 + 7,000 + 2$ What is the **standard form** of this number?

f.) 872

g.) 8,702

h.) 87,200

j.) 87,002

$$\begin{array}{r} 80,000 \\ + 7,000 \\ + 2 \\ \hline 87,002 \end{array}$$




- a.) 42 boxes 648

- b.) 8 boxes

$0, \overset{\checkmark}{6}, \overset{\checkmark}{12}, \overset{\checkmark}{18}, \overset{\checkmark}{24}, \overset{\checkmark}{30}, \overset{\checkmark}{36}, \overset{\checkmark}{42}, \overset{\checkmark}{48}$

- c.) 7 boxes


  
 8 Boxes

- d.) 54 boxes

- f.) 400 €

Odd  $\Rightarrow 1, 3, 5, 7, 9$

- g.) 534  $\Sigma$

Always the one's digit.

- ### h.) 507 c

- j.) 888
- $\Sigma$

- Record your answer on the space provided at the right.

$$\begin{array}{r} 4589 \\ - 3409 \\ \hline 1180 \end{array}$$

Difference:  $\begin{array}{r} 1,181 \\ + 3,408 \\ \hline 4,589 \end{array}$  ✓

- a.)  $469 - 132 + 64 = ?$

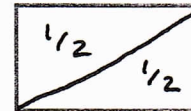
$$469 - 64 + 732 = ?$$

- c.)  $469 - 64 + 132 = ?$

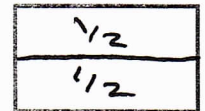
- b.)  $469 + 64 - 132 = ?$

- d.)  $469 + 64 + 132 = ?$

- Vocab  $\Rightarrow$  congruent, horizontal and diagonal



*Rectangle A*



*Rectangle B*

- He divided one **Rectangle A** into 2 congruent triangle parts using a diagonal line.
- He divided the other **Rectangle B** into 2 congruent rectangle parts using a horizontal line.

f.) Each triangle part and each rectangle part represent  $\frac{1}{2}$  area of the rectangles.

- g.) Each triangle part is larger than the rectangular part.

- h.)** Each rectangle part is larger than the triangle part.

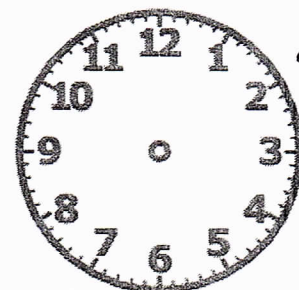
- j.) Each triangle part and each rectangle part represent  $\frac{1}{4}$  of the rectangle.

- Perla walked to her friend's house in 12 minutes.

- Perla played at her friend's house for 27 minutes.

- Perla walked home in 9 minutes.

$$\begin{array}{r} 12 \\ + 27 \\ 9 \\ \hline 48 \end{array}$$



Use  
clock,  
if  
necessary!

a.) 39 minutes

- c.) 45 minutes

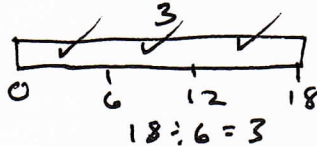
- b.) 48 minutes

- d.) 36 minutes

- 1.) Yessica used 18 feet of ribbon to make necklaces. She used 6 feet of ribbon on each necklace. Which equation can be used to find the number of necklaces Yessica made?

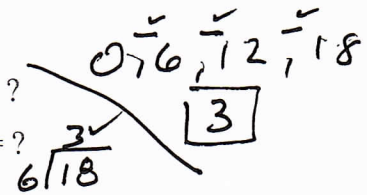
a.)  $18 \div 6 = ?$

b.)  $18 \times 6 = ?$



c.)  $18 - 6 = ?$

d.)  $18 + 6 = ?$



- 2.) Ralph has 438 buttons. His friend, Carl, gave Ralph his collection of 259 buttons. How many buttons does Ralph have now?

f.) 179 buttons

g.) 687 buttons

$$\begin{array}{r} 438 \\ + 259 \\ \hline 697 \end{array}$$

h.) 697 buttons

j.) Not Here

- 3.) Jeffery has received a square birthday card from his grandmother. What is the perimeter of the card?

18 cm



a.) 36 cm

b.) 54 cm

$$\begin{array}{r} 18 \\ \times 4 \\ \hline 72 \end{array}$$

c.) 24 cm

d.) 72 cm

$$\begin{array}{r} 18 \\ + 18 \\ + 18 \\ + 18 \\ \hline 72 \end{array}$$

- 4.) There are 6 cans of pet food in each sack at the Fantastic Pet Store. Which table shows the correct multiplication relationship between the number of sacks and the total cans of pet food in the sacks?

Number of Bags	Number of cans
2 $\times 6$	12 ✓
5 $\times 6$	30 ✓
6 $\times 6$	36 ✓
9 $\times 5$	45 ✗

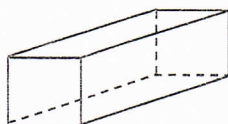
Number of Bags	Number of cans
2 $+ 6$	8
5 $+ 6$	11
6 $+ 6$	12
9 $+ 6$	15

Number of Bags	Number of cans
2 $\times 6$	12
5 $\times 6$	30
6 $\times 7$	42 ✗
9 $\times 6$	54

Number of Bags	Number of cans
2 $\times 6$	12 ✓
5 $\times 6$	30 ✓
6 $\times 6$	36 ✓
9 $\times 6$	54 ✓

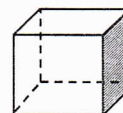
- 5.) Which space figure is a not a prism?

a.)



Rectangular Prism

c.)



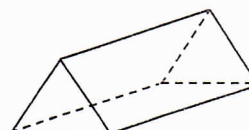
Cube/Rect. Prism

b.)



cylinder

d.)

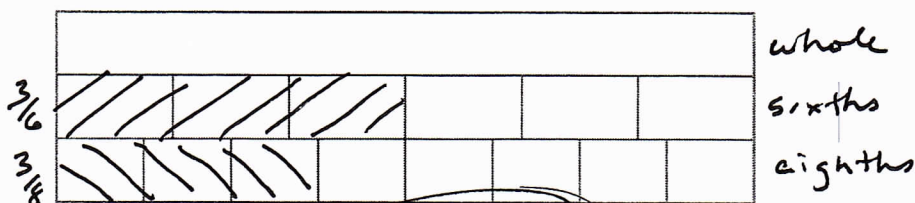


Triangular Prism



- 1.) A fraction strip is shown.

Which comparisons and explanations are true?



~~a.)~~  $\frac{3}{6} = \frac{3}{8}$  Because the numerators are the same.

~~b.)~~  $\frac{3}{6} < \frac{3}{8}$  Because sixths are smaller than eighths.

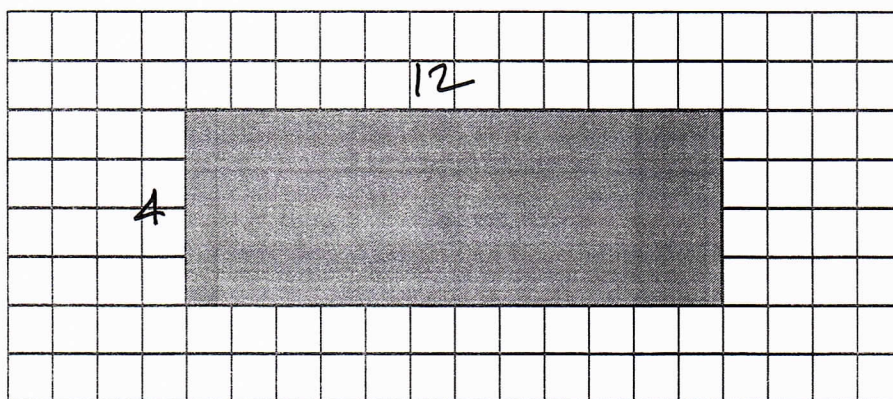
c.)  $\frac{3}{6} > \frac{3}{8}$  Because sixths are larger than eighths.

d.)  $\frac{3}{6} > \frac{3}{8}$  Because sixths are smaller than eighths.  
*Wrong*

$\frac{3}{6} > \frac{3}{8}$

Find mathematical Relationships  
First to eliminate answer choices!

- 2.) The shaded figure on the grid represents the area needed for a new swing set on the playground.



= 1 square meter

f.) 36 square meters

h.) 32 square meters

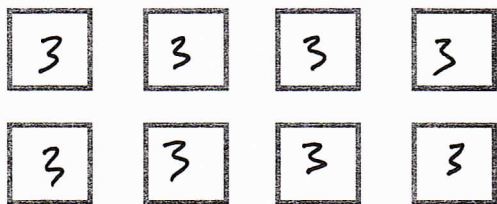
g.) 48 square meters

j.) 38 square meters

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 12 \\ +12 \\ +12 \\ +12 \\ \hline 48 \end{array}$$

- 3.) A group of 24 students shared boxes in an exercise game. An equal number of students shared each box. How many students shared each box?



a.) 3 students

c.) 6 students

b.) 4 students

d.) 8 students

$$0, 3, 6, 12, 15, 18, 21, 24$$

$$\begin{array}{r} 3 \\ 8 \overline{) 24} \end{array}$$

- 4.) What statement does NOT describe the number 4,120?

a.) The sum of 4,000 and 120 ones. 4,120

c.) The sum of 4,000, one hundred and 20 ones. 4,120

b.) The sum of 4,000 and 12 tens. 4,120

d.) The sum of 4,000 and 12 hundreds. 5,120



Name: SOLUTIONS

3rd Grade Math STAAR Warm-up Number 40

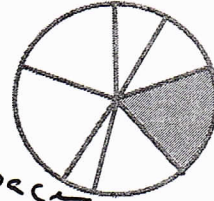
- 1.) John was learning fractions. So, he drew a circle and partitioned it. Then, he shaded part of the circle.

John told the teacher he shaded one-seventh ( $\frac{1}{7}$ ) of the circle.

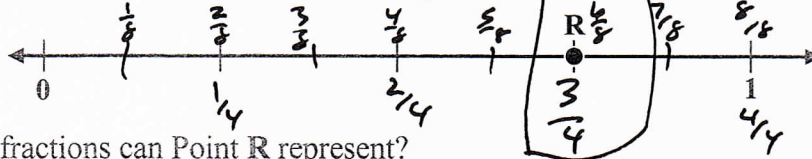
Why do you think John's fraction of  $\frac{1}{7}$  not correct?

Provide a short response below.

→ John's fraction does not contain equal sections  
→ John did not divide the circle in equal sections.



- 2.) Point R on the number line represents two equivalent fractions.



Which two fractions can Point R represent?

a.)  $\frac{3}{4}$  and  $\frac{4}{6}$

c.)  $\frac{3}{4}$  and  $\frac{4}{8}$

b.)  $\frac{3}{4}$  and  $\frac{3}{6}$

d.)  $\frac{3}{4}$  and  $\frac{6}{8}$

$\frac{4}{4} = \frac{8}{8} = 1$  ✓

- 3.) There are 8 shapes on a page of a "Guess the Shape" game. A page of the game is shown below.

How many shapes are shown on 6 pages?

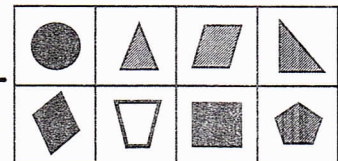
f.) 16

h.) 24

g.) 48

j.) 32

$8 \times 6 = 48$   
 $0, 8, 16, 24, 32, 40, 48$



- 4.) A California mathematics drivers' license card is shown below. Use the ruler provided by your teacher to measure the card to the nearest centimeter.

What is the perimeter of the card in centimeters (cm)?

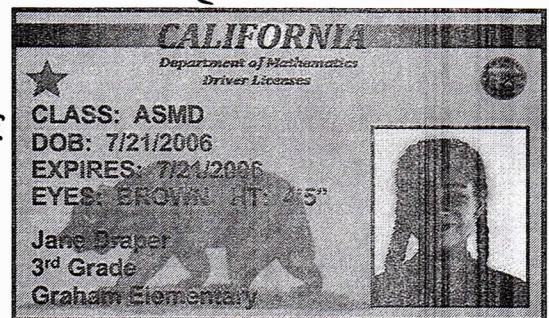
a.) 14 cm

b.) 18 cm

c.) 22 cm

d.) 26 cm

$(7+4) \times 2 = 22$   
 $(7+7+4+4) = 22$



- 5.) Mr. Samuels works for Johnson Chemical Company in Chicago, Illinois. What best statement determines how much money his company pays him each month for his work?

f.) How expensive the car Mr. Samuels drives to work.

g.) The work experience and skills that Mr. Samuels has.

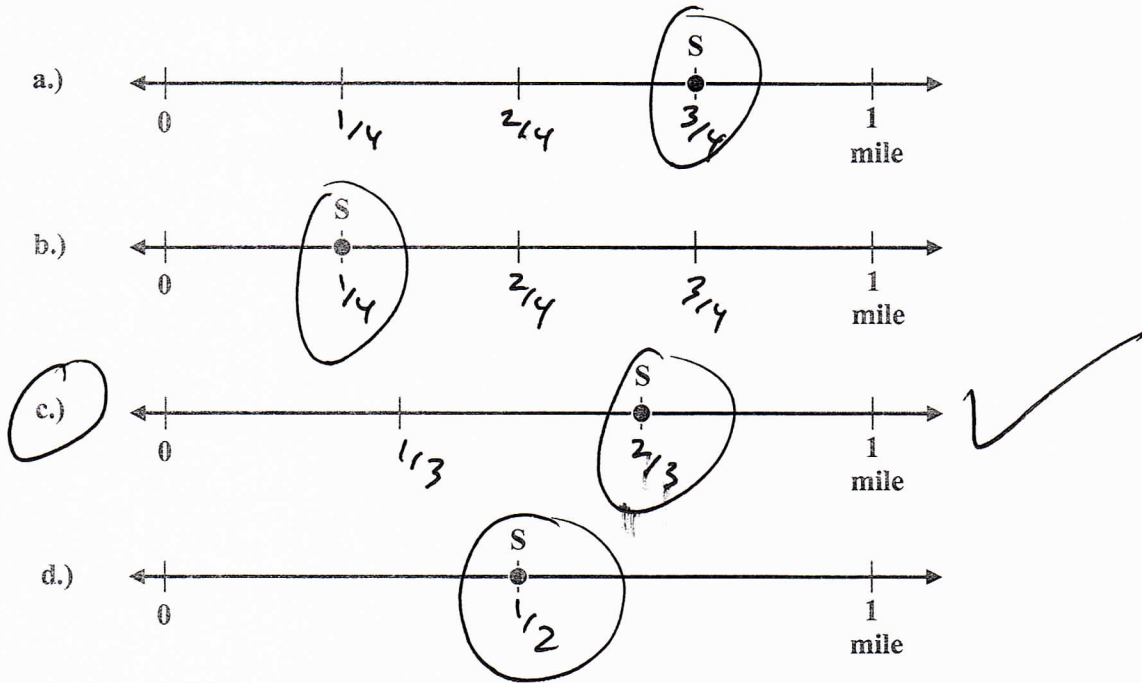
h.) The number of children Mr. Samuels has in his family.

j.) The amount of money Mr. Samuels saves in his bank account each month.

Note: This is the Reason Education is so important!

Name: SOLUTIONS

- 1.) Suzanne walked  $\frac{2}{3}$  mile from her house. Which fraction line below represents how far Suzanne (S) walked from her house?



- 2.) There are 14 red mats on the floor. The below expression represents the number of tennis balls on the floor.

$$2 \times 14 = 28 \text{ tennis balls}$$

This is a difficult problem.  
- Keep it simple.

Which statement is true?

- f.) There is an equal number of red mats and tennis balls.
- g.) There are 14 more red mats than tennis balls on the floor.
- h.) There are twice the number of red mats as tennis balls on the floor.
- j.) There are twice the number of tennis balls than red mats on the floor.

- 3.) The 6 shapes shown below can be classified in a number of ways.



4 quads.

Which statement represents a correct classification?

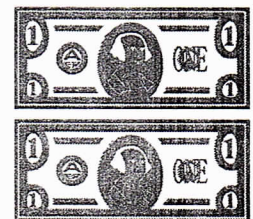
- a.) 1 circle, 1 triangle, 1 pentagon, 1 square, 1 rectangle, 1 trapezoid.
- b.) 1 circle, 1 triangle, 4 quadrilaterals.
- c.) 1 circle, 1 triangle, 4 pentagons.
- d.) 1 circle, 1 triangle, 4 hexagons.

- 4.) Barry bought some items at the grocery store. He spent this amount of money:  
How much money did Barry spend at the grocery store?

- e.) \$2.31
- f.) \$2.21

- g.) \$2.36
- h.) \$2.51

2.31

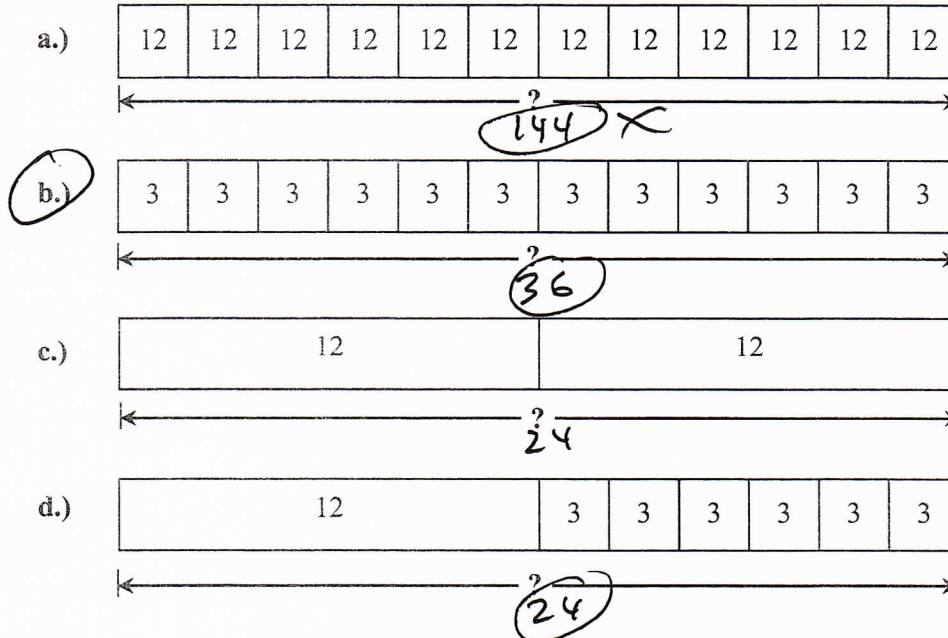




Name: Solutions

3<sup>rd</sup> Grade Math STAAR Warm-up Number 42

- 1.) Betty made 12 shelves to sell at the local farmer's market. She used 3 pieces of wood for each shelf. Which diagram shows the total number of pieces of wood Betty used?



$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

12 equal groups of 3

- 2.) Mr. Barrientos has three children – Nina, Samuel and Jessica.

- Nina weighs 100 pounds.
- Samuel weighs 49 pounds.
- Jessica weighs 32 pounds.

$$\begin{array}{r} 100 \\ - 49 \\ \hline 51 \end{array}$$

What is the difference between Nina's weight and the combined weight of Samuel and Jessica?

- f.) 81 pounds      h.) 181 pounds      g.) 71 pounds      j.) 19 pounds

check by addition

$$\begin{array}{r} 19 \\ + 81 \\ \hline 100 \end{array}$$

- 3.) There are 3 soccer teams practicing together on a large field.

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

36 players

- Each team has 12 players.
- All the players are used to make 4 groups.
- All the groups are equal in number.

How many players are in each group?

- (a.) 9      b.) 4      c.) 12      d.) 36

4 equal groups of 9 = 36 ✓

- 4.) Four students each bought a can of Coke. The table shows how much money they paid the clerk and how much change they received. What was the price of the Coke?

Name	Money Paid	Change Received
Jeff	100 cents	48 cents
Madison	75 cents	23 cents
Chris	60 cents	8 cents
Haines	55 cents	3 cents

$$\begin{array}{r} 100 \\ - 48 \\ \hline 52 \end{array}$$

$$\begin{array}{r} 60 \\ - 8 \\ \hline 52 \end{array}$$

- f.) 51 cents

- (h.) 52 cents

- g.) 3 cents

- j.) Not here

$$\begin{array}{r} 75 \\ - 23 \\ \hline 52 \end{array}$$

$$\begin{array}{r} 55 \\ - 3 \\ \hline 52 \end{array}$$

All Differences are 52 cents!

Name: SOLUTIONS

3rd Grade Math STAAR Warm-up Number 43

- 1.) Jennifer received the money shown below for doing chores for his parents. How much money did Jennifer make from her work?

a.) \$ 13.75

c.) \$ 8.75

b.) \$ 12.25

d.) \$ 8.25



$$\begin{array}{r} 7.00 \\ 1.00 \\ 0.50 \\ 0.25 \\ \hline 8.75 \end{array}$$

- 2.) Amy is making a patio in her backyard with flat square tiles. Each tile has an area of 1 square yard. The figure below shows the square tiles that have already been placed.

= 1 square yard

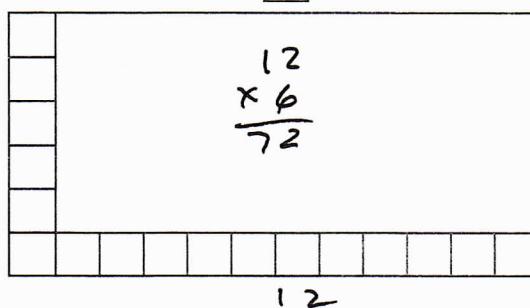
What is the area of the entire patio in square yards?

f.) 60 square yards

h.) 17 square yards

g.) 72 square yards

j.) 36 square yards



- 3.) Ms. Crafty is making cookies for three public schools. The table below shows the number of cookies she made for each school.

What is the best estimate of the total number of cookies Ms. Crafty made?

a.) 600 cookies

c.) 800 cookies

b.) 700 cookies

d.) 900 cookies

Cookies

School (P.S.)	Baked Cookies
P.S. No. 21	253
P.S. No. 132	146
P.S. No. 167	405

$$\begin{array}{r} 300 \\ 100 \\ 400 \\ \hline 800 \end{array}$$

- 4.) Mitch played soccer with his friends. After the game, he drank a bottle of juice. Which unit of measure best describes the volume of the liquid he drank?

f.) fluid ounces

g.) pounds

h.) square feet

j.) grams

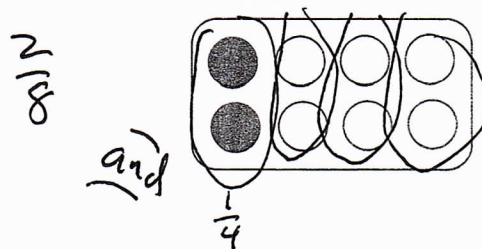
- 5.) Alice made 8 muffins. She and her friends ate 6 muffins. What are two equivalent fractions that represent the muffins that were not eaten.

a.)  $\frac{3}{6}$  and  $\frac{3}{8}$

c.)  $\frac{1}{4}$  and  $\frac{2}{8}$

b.)  $\frac{1}{3}$  and  $\frac{2}{6}$

d.)  $\frac{2}{4}$  and  $\frac{2}{8}$



- 6.) Compute the difference and the sum of two baby elephants' weights of 604 and 439 kilograms?

Difference: 165 kilograms.

$$\begin{array}{r} 604 \\ - 439 \\ \hline 165 \end{array}$$

Sum: 1,043 kilograms.

$$\begin{array}{r} 165 \\ + 439 \\ \hline 604 \end{array}$$



1.) Which comparison is NOT true?

- a.)  $3,076 > 2,569$  ✓    b.)  $23,560 < 25,002$  ✓    c.)  $43,091 = 43,091$  ✓    d.)  $18,714 < 5,999$

2.) For 11 rounds in the dart throwing contest, Damian threw 4 blue darts and 2 red darts at the target.

What was the total number of red and blue darts that Damian threw for all 11 rounds?  $11 \times (4 + 2) = 66$ 

h.) 44 darts

g.) 17 darts

h.) 66 darts

j.) 22 darts

$$\begin{array}{r} 44 \\ + 22 \\ \hline 66 \end{array}$$

3.) A 7-11 sold 647 bottles of drinks over the weekend. The table shows the type of drinks that the store sold. The number of bottles of Topa Chico Water is missing.

Type of Drinks and Quantity Sold at 7-11

Type of Drink Sold	Quantity
Mountain Dew	154
Topa Chico Water	?
Coca-Cola	218

What set of equations can be used to find the number of Topa Chico Water bottles that were sold?

a.)  $154 + 218 = 372$   
 $647 + 372 = ?$

b.)  $154 + 218 = 372$   
 $647 - 372 = ?$

c.)  $218 - 154 = 64$   
 $647 + 64 = ?$

d.)  $647 - 218 = 429$   
 $429 - 154 = ?$

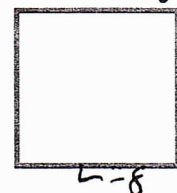
4.) The perimeter of the rectangular floor in Mr. Jones' guest bedroom is 36 feet. The width of the floor is 10 feet, as shown.

What is the length of Mr. Jones' guest bedroom?

Write your answer on the line: 8 feet.

$$\begin{array}{l} L + L + 10 + 10 = 36 \\ L + L + 20 = 36 \\ \underline{8 + 8} \end{array}$$

10 feet



WRITE  
EQUATION  
10  
- GUESS &  
check

5.) A basketball team played in 7 tournaments last season. They were charged 85 dollars for each tournament as an entry fee. What was the total amount of money that the team paid to play in all 7 tournaments?

g.) 92 dollars

g.) 595 dollars

$$\begin{array}{r} 85 \\ \times 7 \\ \hline 595 \end{array}$$

h.) 515 dollars

OR Add 85 ~ 7 TIMES

j.) 680 dollars

6.) Clark went to his friend's party at the time shown on the clock to the right. He left 45 minutes later. At what time did Clark leave the party?

a.) 2:25 PM

c.) 2:15 PM

b.) 2:20 PM

d.) 1:55 PM

$$\begin{array}{r} 1:20 \\ + 20 \\ \hline 2:00 \end{array} \quad \begin{array}{r} 2:00 \\ + 25 \\ \hline 2:25 \end{array}$$



7.) Priscilla used 10 packages of balloons to throw a party for her new baby. There were 8 balloons in each package. Half of the balloons in each package were green. Which equation can be used to calculate the number of green balloons Priscilla used at the party?

f.)  $10 \times 8 \div 2 = 44$

g.)  $80 \div 2 - 8 = 32$

h.)  $10 + 8 \div 2 = 14$

j.)  $9 \times 2 \div 2$

- 1.) Billy was able to do 9 push-ups. The number of push-ups that Jasper did is represented by this equation:

$$3 \times 9 = 27$$

Which statement is true?

- ~~a.)~~ Billy and Jasper were both able to do an equal number of push-ups.  
~~b.)~~ Billy did twenty more push-ups than Jasper.  
~~c.)~~ Billy did twenty fewer push-ups than Jasper.  
d.) Jasper did three times as many push-ups as Billy.

Billy = 9 push-ups  
 Jasper = 27 push-ups

$$\begin{array}{r} 27 \\ - 9 \\ \hline 18 \end{array}$$

3 times ✓  
 mm

- 2.) The table shows the number of pieces of bubble gum in different numbers of packages.

Based on

Bubble Gum

Number of Packages	Number of Pieces of Gum
3	36
4	48
5	60
6	72

Based on the relationship in the table, which statement is true?

- f.) The number of packages plus 33 equals the number of pieces of gum.  
 g.) The number of packages minus 33 equals the number of pieces of gum.  
h.) The number of packages times 12 equals the number of pieces of gum.  
 k.) The number of packages divided by 12 equals the number of pieces of gum.

- 3.) Kim is describing to her class the relationship between labor and income.

Which statement is correct that Kim should use with her classmates?

- a.) A 3<sup>rd</sup> grader takes \$10 dollars from his bank account and spends it at the store.  
b.) A 3<sup>rd</sup> grader earns \$10 dollars for feeding their neighbor's dogs when they are on vacation.  
 c.) A 3<sup>rd</sup> grader does volunteer work at the local foodbank. ✗  
 d.) A 3<sup>rd</sup> grader gives his sister \$3. ✗

We work  
 to get/receive  
 money

- 4.) A rectangular room is completely tiled with 1 square foot pieces of carpet. There are 4 rows, and each row has 12 carpet pieces. What is the area of the rectangular room in square feet?

Write your answer on the line: 48 square feet

$$\begin{array}{r} 12 \\ + 12 \\ 12 \\ \hline 48 \end{array}$$

$$4 \begin{array}{|c|} \hline 12 \\ \hline \end{array} = \frac{48}{12}$$

- 5.) A class measures the height of two books.

- Book A is  $\frac{1}{3}$  foot high.

- Book B is  $\frac{3}{3}$  foot high  
 $\frac{3}{3} = 1 \text{ foot}$

Which statement is true?

- f.) Book A's height equals Book B's.  
 g.) Book A's height is greater than Book B's.  
h.) Book B's height is greater than Book A's.  
 j.) Not enough information to compare books.

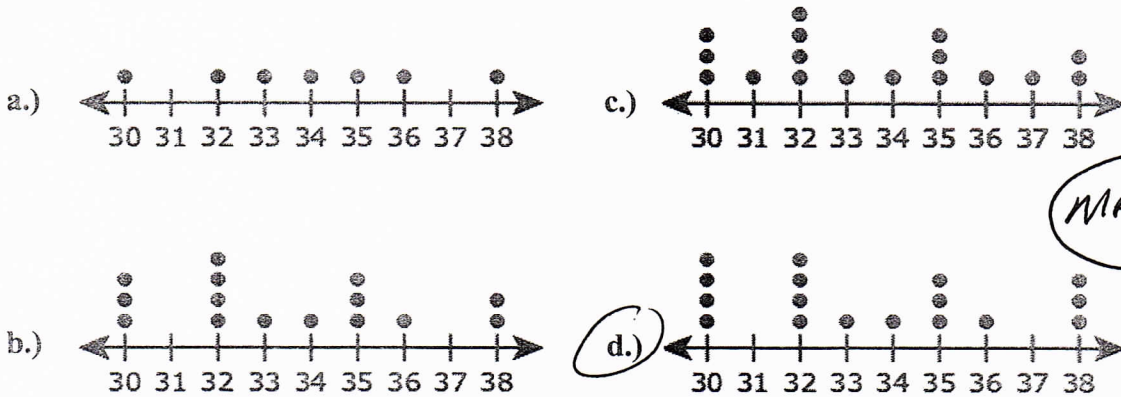
$$\frac{3}{3} > \frac{1}{3}$$



- 1.) The numbers listed below are the distance in feet that Victor threw a football.

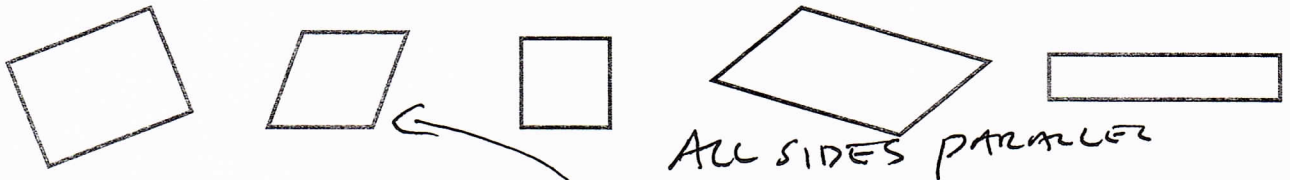
30, 36, 32, 38, 33, 32, 34, 35, 35, 30, 30, 32, 38, 35, 32, 30, 38

Which dot plot represents Victor's throws?



MATCH  
Date

- 2.) A group of figures is shown below. What word best describes **all** the shapes?



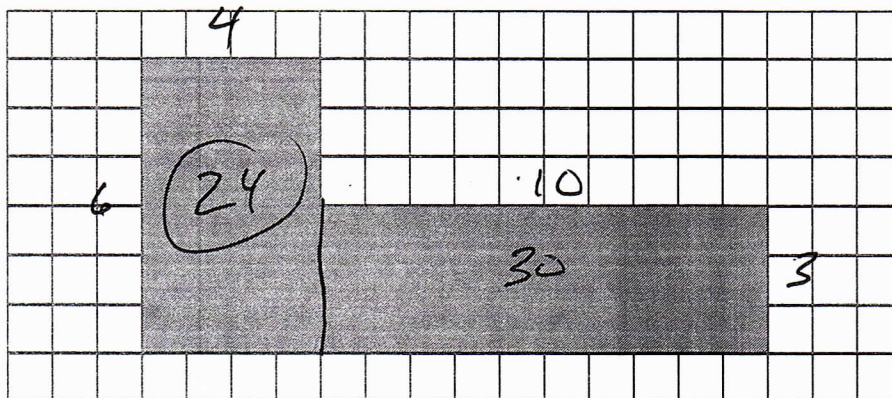
f.) circles

g.) trapezoids

h.) rhombuses

i.) parallelograms

- 3.) The shaded rectangular object below is the floor of a cabin.



= 1 square meter

$$\begin{array}{r} 24 \\ + 30 \\ \hline 54 \end{array}$$

What is the area of the shaded rectangle region?

- (a.) 54 square meters      b.) 44 square meters      c.) 50 square meters      d.) 57 square meters

- 4.) What number sentence can be used to find the number in the box for this equation?

$$15 \div 5 = \square$$

FACT FAMILY

f.)  $10 \div 2 = 5$

g.)  $5 \times 15 = 75$

(h.)  $3 \times 5 = 15$

j.)  $3 \times 1 = 3$

- 1.) Jim lines 8 playing cards. Three Queen of Hearts and 5 Blank cards as shown below.



8 Total

Which expression is equivalent to the number of Queen of Hearts to the fraction of cards shown?

a.)  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

c.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

b.)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$  ✓

d.)  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

- 2.) The pictograph shows the number of balloons 4 teams made during the school 'Balloon Contest.'

Balloon Contest Results

Red Team	✓✓✓✓✓	60 = 5 × 12
Blue Team	✓✓✓	36 = 3 × 12
Green Team	✓✓	24 = 2 × 12
Brown Team	✓✓✓✓✓✓	72 = 6 × 12

Each ✓ means 12 balloons

Which table correctly represents the data?

f.)

Red Team	5
Blue Team	3
Green Team	2
Brown Team	6

h.)

Red Team	60
Blue Team	36
Green Team	24
Brown Team	72

g.)

Red Team	55
Blue Team	33
Green Team	22
Brown Team	66

j.)

Red Team	60
Blue Team	32
Green Team	28
Brown Team	84

- 3.) Each side of the figure is the same length. The perimeter of the figure is 50 inches.

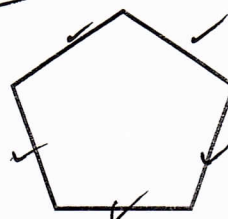
What is the length of one side of the figure?

a.) 50 inches

c.) 9 inches

b.) 10 inches

d.) 5 inches



5 sides

$5 \overline{) 50} 10$



Name: SOLUTION

3<sup>rd</sup> Grade Math STAAR Warm-up Number 48

1.) What number goes in the  to make the equation true?

$\times 6 = 84$

a.) 17

b.) 12

c.) 18

d.) 14

$$\begin{array}{r} 14 \\ 6 \overline{)84} \\ \underline{6} \phantom{0} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

2.) Which statement is true about the number 25?

~~f.)~~ The number 25 is even since it can be divided evenly by 5.

g.) The number 25 is odd since when you sum the digits of 25  $2 + 5$  equals 7.

h.) The number 25 is odd since the number in the one's place is 5 – and 5 is an odd number.

~~i.)~~ The number 25 is even since it can be evenly divided by 2.

OR count by multiples

3.) Damar bought 4 packages of chocolate chip cookies and 2 packages of raisin cookies. There were 12 cookies in each package. How many cookies did Damar purchase or buy?

a.) 72

b.) 60

c.) 84

d.) 18

$$\begin{array}{r} 12 \quad 12 \\ \times 4 \quad \times 2 \\ \hline 48 \quad 24 \\ \hline 72 \end{array}$$

4.) Shannon chose a figure with 4 vertices that was also a quadrilateral. Glen picked a figure with no vertices.

What figures are possible that Shannon and Glen chose?

f.) ~~triangle~~ and rectangle

g.) parallelogram and ~~pentagon~~

↳ square, rhombus, parallelogram, rectangle, trapezoid

h.) parallelogram and circle

j.) rectangle and ~~hexagon~~

5.) A group of students purchased tickets for the Halloween Haunted House.

This is a difficult problem for 3<sup>rd</sup> Graders.

- The group of students spent \$ 3 dollars for each ticket.
- The group of students spent a total of \$ 24 dollars.
- Each student in the group bought 2 tickets.

Compute tickets bought  
 $3 \overline{)24}$   
8 tickets bought

How many students were in the group?

↳ half of 8 = 4

a.) 2 students

b.) 4 students

c.) 6 students

d.) 8 students

6.) Robin is putting stickers on a piece of cardboard. She is making a rectangular pattern as shown below. Each sticker is 1 square inch.

What is the area of the pattern when Robin finishes placing all the stickers on the cardboard?

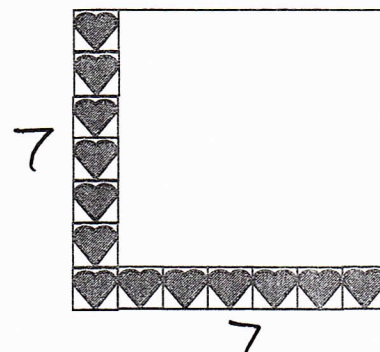
f.) 28 square inches

g.) 42 square inches

h.) 49 square inches

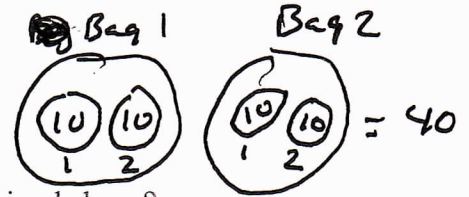
j.) 56 square inches

$$7 \times 7 = 49$$

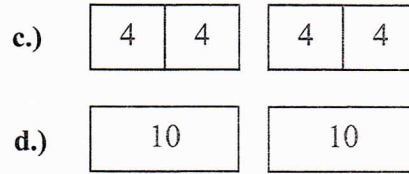
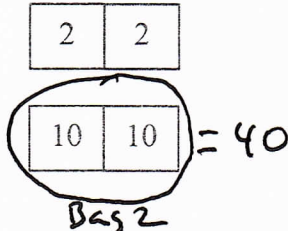
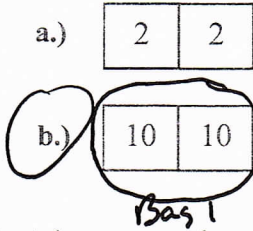


1.) Jim has 2 bags.

- Each bag has 2 stuffed animals
- Each animal has 10 toes.



Which model can be used to find the total number of toes the stuffed animals have?



2.) A large room has 616 seats.

- 138 seats are marked with a yellow sign
- 242 seats are marked with a red sign
- 117 seats are marked with a blue sign.
- The rest of the seats are marked with an orange sign.

$$\begin{array}{r} 138 \\ + 242 \\ \hline 380 \\ + 117 \\ \hline 497 \\ 616 - 497 \\ \hline 119 \end{array}$$

How many seats are orange?

f.) 119

g.) 281

h.) 497

j.) 235

3.) Mr. Jones sells oranges at a fruit stand for the highest price he can.

- Today, Mr. Jones has only a few oranges left to sell.
- Today, a lot of customers want to buy his oranges.

What price do you think Mr. Jones will charge customers for each orange?

- a.) a **lower price** for each orange since he wants to get rid of the oranges.
- b.) a **higher price** for each orange because he has so many oranges left to sell.
- c.) a **lower price** for each orange since there are many customers wanting to buy oranges.
- d.) a **higher price** for each orange since there are many customers and only a few oranges left to sell.

Demand ↑

Supply ↓

Price ↑

4.) Franklin sells turtles. Franklin changes the price he sells a turtle for each week.

- If Franklin has many turtles, he charges customers less money for one turtle.
- If Franklin has only a few turtles, he charges customers more money for a turtle.

The table represents the number of turtles that Franklin sold in the last 4 weeks.

Franklin's Turtles

	Week 1	Week 2	Week 3	Week 4
Number of Turtles Franklin has to Sell	90	70	100	10
Number of Customers Buying Turtles	20	20	20	20

What week did Franklin sell his turtles at the highest price?

f.) Week 1

g.) Week 2

h.) Week 3

j.) Week 4

Demand ↑  
Supply ↓  
Price ↑

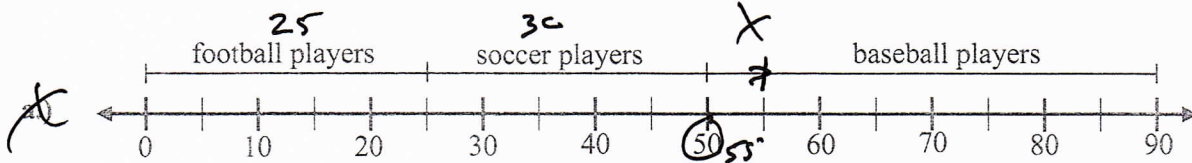


- 1.) There are 3 different types of sports players at a ceremony. The total number of players at the ceremony is 90.

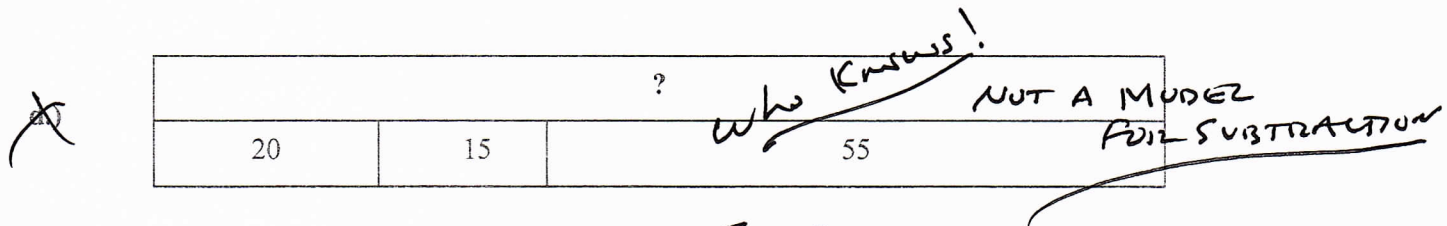
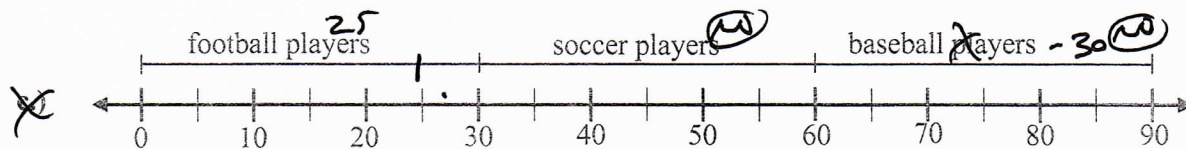
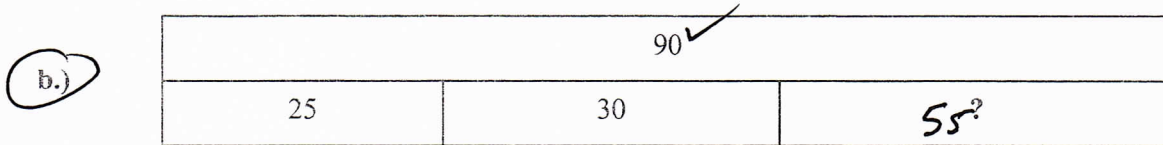
- There are 25 football players and 30 soccer players.
- The rest of the players at a game are baseball players.

SOLVE PROBLEM FIRST

Which model represents one way to find the number of baseball players?



$$\begin{array}{r} 25 \\ + 30 \\ \hline 55 \\ 90 \\ - 55 \\ \hline 35 \end{array}$$



- 2.) An expression is shown below.

$$3 + 5,000 + 40$$

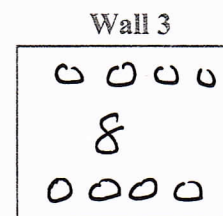
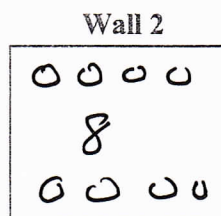
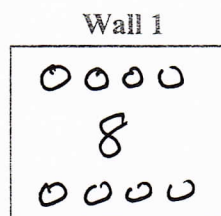
$$\begin{array}{r} 5,000 \\ 40 \\ 3 \\ \hline 5,043 \end{array}$$

What number is equivalent to this expression?

Write answer on the line: 5,043

- 3.) Luis has 24 stickers to place on 3 walls. He puts the same number of stickers on each wall. How many stickers did Luis put on each wall?

Fill  
Each  
Box  
1 Circle At  
A Time  
UNTIL  
24 stickers.



$$\begin{array}{r} 8 \\ 3 \overline{) 24} \end{array}$$

f.) 21 stickers

g.) 9 stickers

h.) 7 stickers

i.) 8 stickers

- 4.) Each side of the figure is the same length. The perimeter of the figure is 42 centimeters (cm).

What is the length of one side of the figure?

a.) 6 centimeters

c.) 7 centimeters

b.) 5 centimeters

d.) 42 centimeters

