

4th 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: _____

3rd, 4th, and 5th Grade SPRING STAAR Mathematics Preps

Recommended Use and Guidelines:

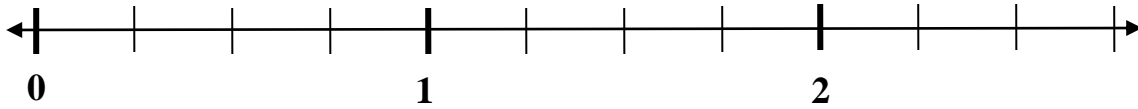
- 1.) Save the file to PDF format to your computer and print practice sheets from your computer. Google Chrome does not allow all embedded images to print without saving the document to your computer. However, your PDF Adobe program allows all symbols to print in the document.
- 2.) These prep exercises 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: _____

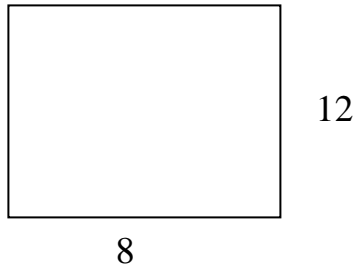
4th Grade Math STAAR Warm-up Number 1

- 1.) Label the number line...all proper and improper fractions and mixed numbers.



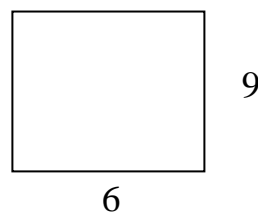
- 2.) Calculate the area in part a.) and perimeter in part b.) in the problems below.

a.)



- a.) 20
b.) 40
c.) 96
d.) 120

b.)



- a.) 15
b.) 18
c.) 30
d.) 54

- 3.) Find the number in each box or triangle.

$$\square \times \triangle = 48$$

$$\square - 8 = \triangle$$

- a.) square = 8 b.) square = 4 c.) square = 12 d.) square = 24
triangle = 6 triangle = 12 triangle = 4 triangle = 2

- 4.) Hector spent \$2.39 at the store. John and Adam each spent \$4.00 at the movie theater. Hector's favorite color is red. What was the sum of the amount of money all three boys spent?

- a.) \$10.39 b.) \$6.39 c.) \$1.61 d.) Not Here

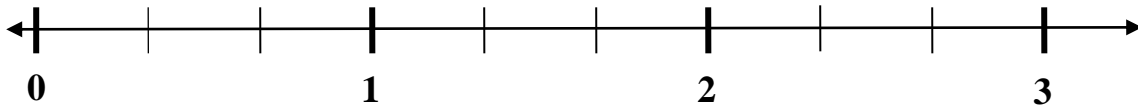
- 5.) What is 20,954.62 in expanded place value form?

- a.) $20,000 + 900 + 50 + 4 + 0.6 + 0.02$
b.) $(2 \times 10,000) + (0 \times 1,000) + (9 \times 100) + (5 \times 10) + (4 \times 1) + (6 \times 0.1) + (2 \times 0.01)$
c.) $(2 \times 10,000) + (0 \times 1,000) + (9 \times 100) + (5 \times 10) + (4 \times 1) + (6 \times 1/10) + (2 \times 1/100)$
d.) $20,000 + 0 + 900 + 50 + 4 + 6/10 + 2/100$
e.) All of the answer choices are correct.

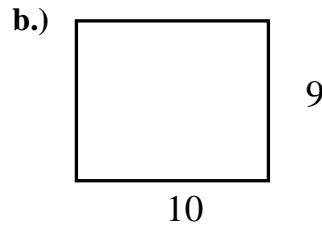
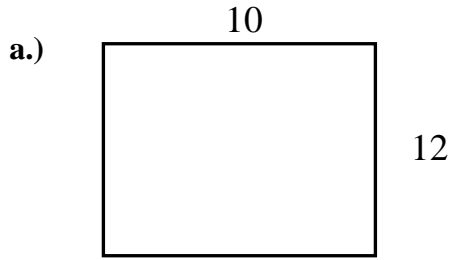
Name: _____

4th Grade Math STAAR Warm-up Number 2

- 1.) Label the number line...all proper and improper fractions and mixed numbers.



- 2.) Calculate the area for part a.) and perimeter for part b.) in the problems below.



- a.) 120
b.) 140
c.) 44
d.) 22

- a.) 19
b.) 38
c.) 90
d.) 54

- 3.) Find the number in each box or triangle.

$$\square \times \triangle = 108$$

$$\square + 3 = \triangle$$

- a.) square = 9 b.) square = 6 c.) square = 12 d.) square = 20
triangle = 12 triangle = 9 triangle = 15 triangle = 23

- 4.) Jessica spent \$3.25 on a gift for her teacher, and \$2.09 on her principal. If she paid for these gifts with a 10 dollar bill, how much change did she receive?

- a.) \$6.75 b.) \$1.16 c.) \$14.66 d.) \$4.66

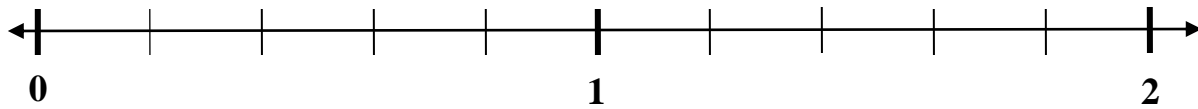
- 5.) What is 432,904.8 in expanded place value form?

- a.) 400,000 + 30,000 + 2,000 + 900 + 0 + 4 + 0.8
b.) (4 x 100,000) + (3 x 10,000) + (2 x 1,000) + (9 x 100) + (0 x 10) + (4 x 1) + (8 x 0.1)
c.) (4 x 100,000) + (3 x 10,000) + (2 x 1,000) + (9 x 100) + (8 x 1/100)
d.) 400,000 + 30,000 + 2,000 + 900 + 4 + 8/100
e.) Only a.) and b.) answer choices are correct.

Name: _____

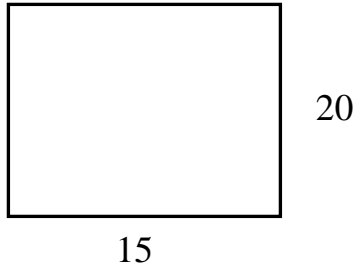
4th Grade Math STAAR Warm-up Number 3

- 1.) Label the number line...all **proper and improper fractions** and **mixed numbers**.

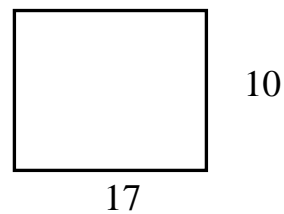


- 2.) Calculate the area for part a.) and perimeter for part b.) in the problems below.

a.)



b.)



- a.) 32
b.) 64
c.) 300
d.) 70

- a.) 29
b.) 54
c.) 170
d.) 204

- 3.) Order the decimals from **Greatest to Least** on the line provided below.

0.96 0.9 0.5 0.04 1.09 0.87

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



- a.) $22/4$ or $3 \frac{1}{4}$ b.) $13/4$ or $3 \frac{1}{4}$ c.) $17/4$ or $4 \frac{1}{4}$ d.) $19/4$ or $4 \frac{3}{4}$

- 5.) Find the difference of 3.5 and 1.04?

- a.) 4.54 b.) 6.04 c.) 2.46 d.) 1.66

- 6.) Destiny worked the following division problem correctly: $32.46 \div 3 = 10.82$

Round the quotient to the nearest whole number.

- a.) 10.8 b.) 32 c.) 10 d.) 11

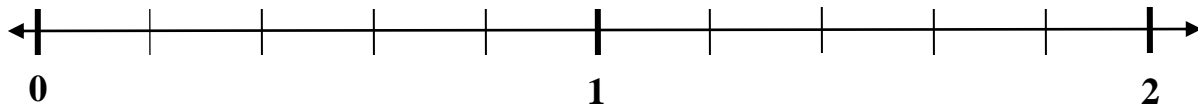
- 7.) Finish expanding the following number to the correct place value expressions:

$45,908.7 = (4 \times 10,000) +$ _____

Name: _____

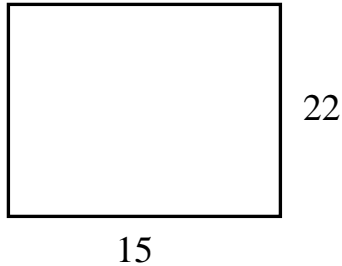
4th Grade Math STAAR Warm-up Number 4

- 1.) Label the number line...all proper improper fractions and mixed numbers.

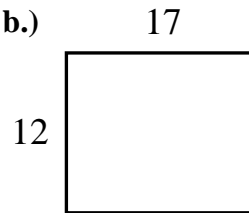


- 2.) Calculate the area for part a.) and perimeter for part b.) in the problems below.

a.)



b.)



a.) 330

b.) 64

c.) 240

d.) 74

a.) 29

b.) 58

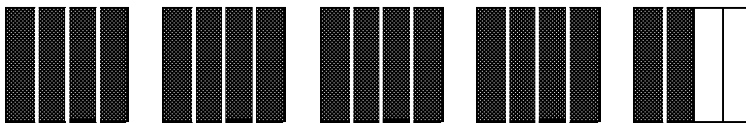
c.) 114

d.) 204

- 3.) Order the decimals from Least to Greatest on the line provided below.

0.08 0.9 0.94 0.01 1.07 0.8

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



a.) $22/4$ or $3 \frac{1}{4}$ b.) $13/4$ or $3 \frac{1}{4}$ c.) $18/4$ or $4 \frac{2}{4}$ d.) $19/4$ or $4 \frac{3}{4}$

- 5.) Find the sum of 3.5 and 1.04?

a.) 4.54

b.) 6.04

c.) 2.46

d.) 1.66

- 6.) Finish expanding the following number in correct place value form.

653,002.69 = 600,000 + _____

- 7.) What is the number 653,002.69 rounded to the nearest one hundred thousand place value?

a.) 600,000

b.) 100,000

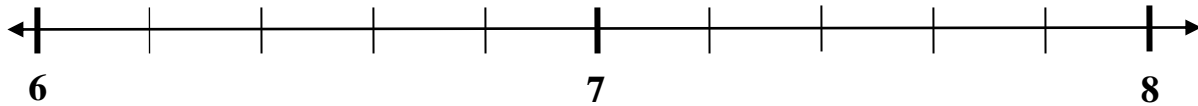
c.) 700,000

d.) 653,000

Name: _____

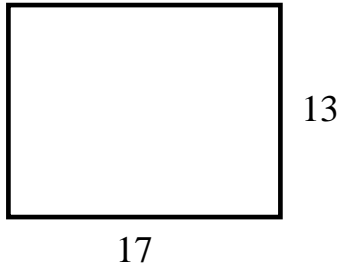
4th Grade Math **STAAR Warm-up Number 5**

- 1.) Label the number line...all **improper fractions** and **mixed numbers**.

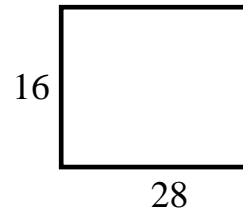


- 2.) Calculate the area for part a.) and perimeter for part b.) in the problems below.

a.)



b.)



- a.) 30
b.) 60
c.) 221
d.) 71

- a.) 34
b.) 88
c.) 448
d.) Not here

- 3.) Order the decimals from **Least to Greatest** on the line provided below.

0.03 0.02 0.9 0.2 1.07 0.4

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



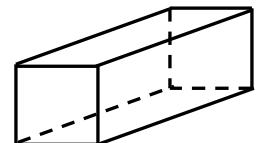
- a.) $22/4$ or $3 \frac{1}{4}$ b.) $18/5$ or $3 \frac{3}{5}$ c.) $16/5$ or $5 \frac{1}{5}$ d.) $21/5$ or $5 \frac{3}{5}$

- 5.) Find the difference of 3.52 and 1.9?

- a.) 5.42 b.) 1.62 c.) 2.62 d.) 1.66

- 6.) Given the following numbers: 7, 56, 8 Write the fact family (4 operations, needed).

- 7.) Find the number of edges, vertices, and faces on the **rectangular prism** below.



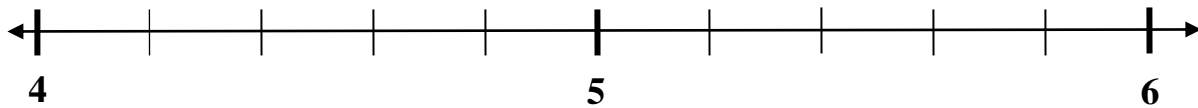
- a.) E=8, V=8, F=6 b.) E=12, V=8, F=6 c.) E=10, V=6, F=8 d.) Not here

- 8.) Solve for “H” in the expression: $H = 5 \times (2 \times 3)$

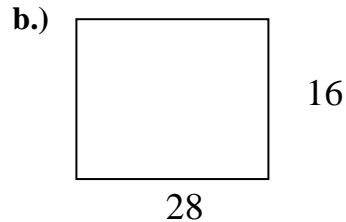
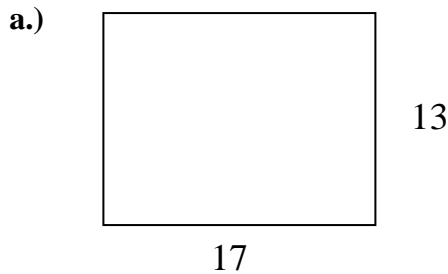
H = _____

Name: _____

- 1.) Label the number line...all improper fractions and mixed numbers.



- 2.) Calculate the perimeter in part a.) and area in part b.) in the problems below.



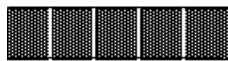
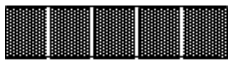
- a.) 30
b.) 60
c.) 221
d.) 71

- a.) 34
b.) 68
c.) 448
d.) 1204

- 3.) Order the decimals from Greatest to Least on the line provided below.

0.08 0.07 0.8 0.7 1.41 0.3

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



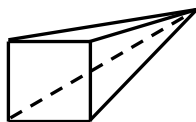
- a.) $\frac{22}{4}$ or $3 \frac{1}{4}$ b.) $\frac{18}{5}$ or $3 \frac{3}{5}$ c.) $\frac{19}{5}$ or $3 \frac{4}{5}$ d.) $\frac{21}{5}$ or $5 \frac{3}{5}$

- 5.) Find the difference of 10 and 1.92? (Check by adding)

- a.) 9.08 b.) 7.62 c.) 8.08 d.) 11.92

- 6.) Given the following numbers: 3, 24, 8 Write the fact family (4 operations, needed).

- 7.) Find the number of edges, vertices, and faces on the pyramid shown below.



Name the pyramid shown to the left: _____

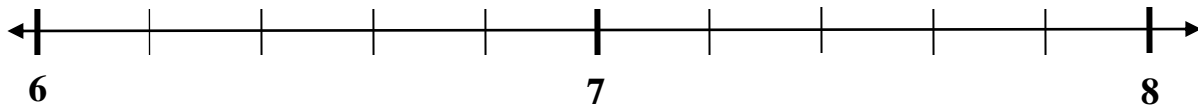
- a.) E=8, V=8, F=6 b.) E=12, V=8, F=6 c.) E=5, V=5, F=5 d.) Not here

- 8.) Subtract and check by adding: $2 - 0.751 = \underline{\hspace{2cm}}$ (Hint: Where is the decimal point on the number 2?)

Name: _____

4th Grade Math STAAR Warm-up Number 7

- 1.) Label the number line...all the improper fractions and mixed numbers.



- 2.) Andrea is twice as old as Karen. Karen is 15. How old is Andrea?

a.) 30 b.) 17 c.) 37 d.) 10

- 3.) Order the decimals from Least to Greatest on the line provided below.

0.31 0.02 0.9 0.20 2.07 1.4

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



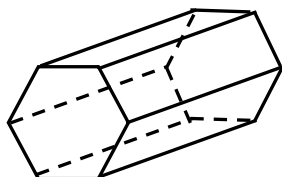
a.) $22/4$ or $3 \frac{3}{4}$ b.) $15/4$ or $3 \frac{3}{4}$ c.) $19/4$ or $3 \frac{3}{4}$ d.) $21/4$ or $3 \frac{3}{4}$

- 5.) Derrick saves photographs in a 4 page photo album (book). He has 28 pictures on the first page and 20 pictures on the second page. If he has 100 total photographs in his album and there are an equal number of photographs on each of the last two pages, how many photographs are on the last page?

a.) 112 b.) 80 c.) 26 d.) 560

- 6.) Given the following numbers: 9, 72, 8 Write the fact family (4 operations, needed).

- 7.) Find the number of edges, vertices, and faces on the prism shown below.



Name the prism shown to the left: _____

a.) $E=8, V=8, F=6$ b.) $E=18, V=12, F=8$ c.) $E=10, V=6, F=8$ d.) Not here

- 8.) Solve for "T" in the following expression: $T = 3 \times (4 + 2) - 10$ $T =$ _____
(Hint: Parenthesis say, "Do me First!")

Name: _____

4th Grade Math STAAR Warm-up Number 8

- 1.) Andreas wants to run one mile. He has already run 1000 feet. How many **feet** does he have left to run?
- a.) 300 b.) 4280 c.) 1260 d.) 1000
- 2.) Gloria is three times as old as Valerie. Karen is 3 years older than Valerie. How old is Karen, if Gloria is 30 years old? (Think. Hint: Write each girl's name with their age next to the name.)
- a.) 30 b.) 17 c.) 13 d.) 10
- 3.) Order the decimals from **Least to Greatest** on the line provided below. (Think!!!)

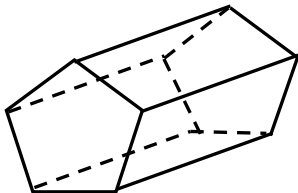
0.09 4.021 0.9 0.20 2.073 4.01

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



- a.) $22/3$ or $3 \frac{2}{4}$ b.) $11/3$ or $3 \frac{2}{3}$ c.) $11/4$ or $3 \frac{2}{4}$ d.) $11/3$ or $2 \frac{2}{3}$
- 5.) Al saves photographs in a 4-page photo album (book). He has 28 pictures on the first page and 20 pictures on the second page. On the last two pages he has 23 on each page. How many photographs does he have in all?
- a.) 112 b.) 94 c.) 26 d.) 560
- 6.) Given the following numbers: 27, 3, 9 Write the fact family (4 operations, needed).

- 7.) Find the number of edges, vertices, and faces shown on the prism below.



Name the prism shown to the left: _____

- a.) $E=15, V=10, F=7$ b.) $E=18, V=12, F=8$ c.) $E=10, V=6, F=8$ d.) Not here
- 8.) Amanda loves orange juice. She already drank 13 ounces, but she wants to drink a total of 2 cups. How many more ounces of orange juice does Amanda need to drink?
- a.) 16 b.) 3 c.) 6 d.) 10
- 9.) Solve for "Amanda" in the expression: $Amanda = 20 - 3 \times (8 \div 2)$ Amanda = _____
(Hint: PEMDAS)...one step at a time!

Name: _____

4th Grade Math STAAR Warm-up Number 9

- 1.) Andreas wants to run two miles. He has already run 5,000 feet. How many feet does he have left to run?

a.) 300 b.) 5,280 c.) 3,020 d.) 5,560

- 2.) Olga is two times as old as Valerie. Valerie is 2 years younger than Lisa. How old is Lisa, if Olga is 20 years old?

a.) 30 b.) 12 c.) 13 d.) 20

- 3.) Order the decimals from **Greatest to Least** on the line provided below. (Think!!!)

0.6 0.021 0.24 0.2 5.073 2.021

- 4.) What is the improper fraction and mixed number for the shaded portion shown below?



a.) $22/2$ or $3\frac{1}{2}$ b.) $7/2$ or $3\frac{1}{2}$ c.) $11/3$ or $3\frac{2}{3}$ d.) $11/3$ or $2\frac{2}{3}$

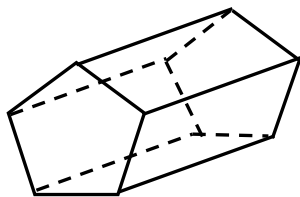
- 5.) 183 children are going to the museum on a field trip. If only 90 children can be seated on each bus, how many buses are needed to take all 183 children to the museum?

a.) 1 b.) 2 c.) 3 d.) 93

- 6.) What is the sum of 2.03 and 4.511?

a.) 6.541 b.) 2.508 c.) 2.408 d.) 12.12

- 7.) Find the number of edges, vertices, and faces on the prism shown below.



Name the prism shown to the left:

a.) $E=15, V=10, F=7$ b.) $E=18, V=12, F=8$ c.) $E=10, V=6, F=8$

- 8.) Mabel loves apple juice. She already drank 20 ounces, but she wants to drink 3 cups. How many more ounces of apple juice does Mabel need to drink?

a.) 16 b.) 3 c.) 6 d.) 4

- 9.) What is the perimeter of a rectangle with a length of 5 feet and a width of 4 feet? (Thinking required)

a.) $2 \times (5 \times 4)$ b.) $2 \times (5 - 4)$ c.) $2 \times (5 + 4)$ d.) $5 + 4$

Name: _____

4th Grade Math STAAR Warm-up Number 10

1.) Andreas wants to run one mile. He has already run 2000 feet. How much does he have left to run?

- a.) 300 b.) 3280 c.) 3020 d.) 1000

2.) Olga is half as old as Valerie. Valerie is 2 years older than Lisa. How old is Lisa, if Olga is 5 years old?

- a.) 30 b.) 12 c.) 8 d.) 20

3.) What number is between 3,490,921 and 3,120,009

- a.) 3,909,090 b.) 3,004,009 c.) 3,209,999 d.) 3,543,234

4.) What is the improper fraction and mixed number for the shaded portion shown below.



- a.) $13/4$ or $3 \frac{1}{4}$ b.) $7/4$ or $3 \frac{1}{4}$ c.) $15/4$ or $3 \frac{3}{4}$ d.) $11/4$ or $3 \frac{2}{4}$

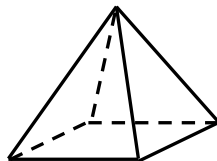
5.) 5 children can fit in 1 car. If 27 children are going to a movie, how many total cars are needed to take the children?

- a.) 6 b.) 5 c.) 135 d.) 5 R 2

6.) What is the sum of 2 and 4.511? (Think...where is the decimal on the 2?)

- a.) 6.511 b.) 2.508 c.) 2.408 d.) 12.12

7.) Find the number of edges, vertices, and faces on the pyramid shown below.



Name the pyramid shown to the left: _____

- a.) E=15, V=10, F=7 b.) E=8, V=5, F=5 c.) E=10, V=6, F=8 d.) Not here

8.) Winter drank 30 ounces of water, but she wants to drink 4 cups. How many more ounces does Winter need to drink?

- a.) 16 b.) 2 c.) 6 d.) 4

9.) What is the product of “Mabel” and “Andrea”? “Mabel” = 5×2 “Andrea” = $8 - (4 + 1)$

- a.) 13 b.) 21 c.) 30 d.) 7

Name: _____

4th Grade Math STAAR Warm-up Number 11

1.) Which of the following equations are correct?

- a.) $300 \times 10 = 30,000$ b.) $3,280 \times 10 = 32,800$ c.) $250 \times 100 = 2,500$ d.) Not here

2.) Adrianne is half as old as Chao-Lin. Chao-Lin is 3 times older than Lisa. How old is Lisa, if Adrianne is 12 years old? (This is a 5th grade problem, but you can do it...one person at a time.)

- a.) 30 b.) 12 c.) 8 d.) 20

3.) What number is between 23,090,921 and 23,120,899

- a.) 23,909,090 b.) 23,004,009 c.) 23,109,999 d.) 23,543,234

4.) What is the improper fraction and mixed number for the shaded portion shown below.



- a.) $16/5$ or $3 \frac{1}{5}$ b.) $7/5$ or $3 \frac{1}{5}$ c.) $11/5$ or $3 \frac{1}{5}$ d.) $17/5$ or $3 \frac{2}{5}$

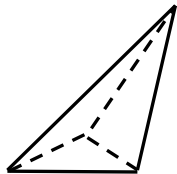
5.) 8 children can fit in 1 van. If 35 children are going to a movie, how many total vans are needed to take the children?

- a.) 6 b.) 5 c.) 272 d.) Not Here

6.) What is the sum of 5 and 4.613? (Think...where is the decimal on the number 5?)

- a.) 6.511 b.) 9.613 c.) 4.618 d.) 12.12

7.) Find the number of edges, vertices, and faces on the pyramid shown below.



Name the pyramid shown to the left: _____

- a.) $E=15, V=10, F=7$ b.) $E=6, V=4, F=6$ c.) $E=10, V=6, F=8$ d.) Not here

8.) Jordan drank 39 ounces of water, but he wants to drink 5 cups. How many more ounces does Jordan need to drink?

- a.) 16 b.) 2 c.) 6 d.) 1

9.) What is $30,000 + 200 + 9 + 0.2$?

- a.) 329.2 b.) 3,209.02 c.) 30,209.2 d.) 302,009.2

10.) What is the sum of “Mabel” and “Andrea”? “Mabel” = 4×3 “Andrea” = $8 - (4 \times 2)$

- a.) 13 b.) 12 c.) 30 d.) 0

Name: _____

4th Grade Math STAAR Warm-up Number 12

1.) Which of the following equations are correct?

- a.) $203 \times 10 = 20,300$ b.) $203 \times 100 = 20,300$ c.) $203 \times 100 = 2,030$ d.) Not here

2.) What is 3,567 rounded the nearest 100 and 1,000?

- a.) 3,600 and 3,000 b.) 3,500 and 4,000 c.) 3,600 and 4,000 d.) Not here

3.) What number is between 41,190,999 and 42,120,899

- a.) 42,909,090 b.) 41,004,009 c.) 41,809,999 d.) 42,543,234

4.) What is the improper fraction and mixed number for the shaded portion shown below.



- h.) $16/4$ or $3 \frac{1}{4}$ j.) $14/4$ or $3 \frac{1}{2}$ k.) $11/4$ or $3 \frac{1}{2}$ L.) $17/4$ or $3 \frac{2}{3}$

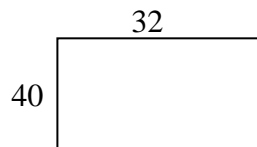
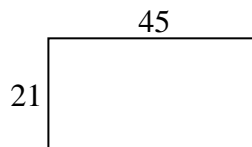
5.) Rigo baked 144 cookies and placed an equal number of cookies in 9 bags. How many cookies were in the 4th bag?

- a.) 123 b.) 14 c.) 15 d.) 16

6.) What is the difference of 6 and 2.61? (Think...where is the decimal on the number 6?)

- h.) 3.49 j.) 3.39 k.) 8.61 L.) 2.67

7.) What is the difference in the area of the rectangles shown below?



- a.) 945 b.) 335 c.) 132 d.) Not here

8.) Steve drank 2 liters of V-8. How many milliliters is this amount?

- h.) 2 j.) 20 k.) 200 L.) 2,000

9.) What is $500,000 + 80,000 + 4,000 + 9$?

- a.) 5,849 b.) 585,900 c.) 589,500 d.) 584,009

10.) About how many gallons does it take to fill a normal sized bath tub?

- h.) 300 j.) 30 k.) 3 L.) Not here

12.) Sandoval Accounting had fixed expenses equaling 200 dollars and variable expenses of 300 dollars. The company had revenues of 1,050 dollars. What was Sandoval Accounting's profit?

- a.) 650 b.) 550 c.) 1,550 d.) 850

Name: _____

4th Grade Math STAAR Warm-up Number 13

1.) Which of the following equations must be multiplied by 1,000 to be true?

- a.) $149 \times \square = 14,900$ b.) $406 \times \square = 406,000$ c.) $203 \times \square = 2,030$ d.) Not here

2.) What is 8,345 rounded the nearest 10 and 100?

- a.) 8,300 and 8,340 b.) 8,400 and 9,000 c.) 8,350 and 8,300 d.) Not here

3.) What number is between 22,030,996 and 22,820,897

- a.) 22,909,090 b.) 22,404,009 c.) 22,899,999 d.) 23,543,234

4.) What is the improper fraction and mixed number for the shaded portion shown below.



- a.) $16/3$ or $3 \frac{1}{3}$ b.) $14/3$ or $3 \frac{1}{3}$ c.) $11/4$ or $3 \frac{1}{2}$ d.) $11/3$ or $3 \frac{2}{3}$

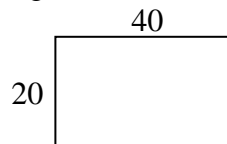
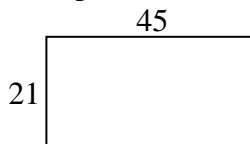
5.) Carlos collects baseballs. He has 228 baseballs and placed an equal number of baseballs in 12 bags. How many baseballs were in the 9th bag?

- a.) 2,736 b.) 19 c.) 15 d.) 16

6.) What is the difference of 5.1 and 2.61?

- a.) 2.49 b.) 2.39 c.) 7.61 d.) 12.12

7.) What is the sum of the perimeters of the two rectangles shown below?



- a.) 945 b.) 66 c.) 252 d.) Not here

8.) Eric drank half a liter of V-8. How many milliliters is this amount? (Think)

- a.) 2 b.) 20 c.) 500 d.) 2,000

9.) What is $(3 \times 100,000) + (4 \times 10,000) + (5 \times 1,000) + (2 \times 100) + (6 \times 1) + (9 \times 1/10) + (1 \times 1/100)$?

- a.) 345,026.91 b.) 345,206.19 c.) 345,206.91 d.) Not here

10.) About how many ounces are there in a small juice box or milk you drink at breakfast or lunch?

- a.) 300 b.) 30 c.) 8 d.) 2,000

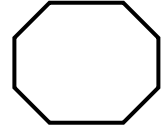
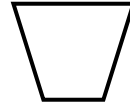
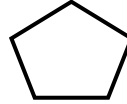
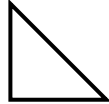
11.) What is the difference between “Betty” and “Sam”? “Betty” = $45 - (4 \times 5)$ “Sam” = $10 + (2 \times 5)$

- a.) 3 b.) 5 c.) 250 d.) 45

Name: _____

4th Grade Math STAAR Warm-up Number 14

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



f.) All shapes are quadrilaterals

h.) All shapes are hexagons

g.) All shapes are pentagons

j.) All shapes are polygons

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

Flowers

| Number of Flower Beds | Total Number of Roses |
|-----------------------|-----------------------|
| 26 | 12 |
| 31 | 17 |
| 45 | 31 |
| 53 | 39 |

Which of the following describes the relationship in the table?

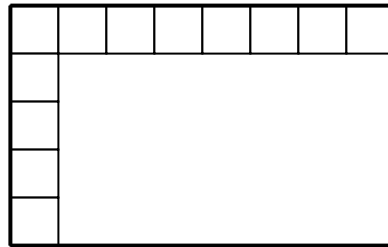
a.) Total Number of Roses + 13 = Number of Flower Beds

b.) Total Number of Roses x 2 = Number of Flower Beds

c.) Total Number of Roses + 14 = Number of Flower Beds

d.) Total Number of Roses - 14 = Number of Flower Beds

3.) The model below shows the length and width of a rectangular garden.



 = 1 square meter

What is the area of this garden in square meters?

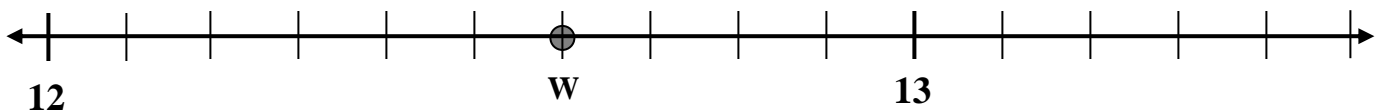
f.) 13 square meters

g.) 26 square meters

h.) 40 square meters

j.) 45 square meters

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



a.) 12.4

b.) 12.9

c.) 13.6

d.) 12.6

5.) At a birthday party on Friday, John turned 13 years old. His brother, Sam, is 5 years older than he is. John's father is twice as old as Sam. John's other brother, Jacob, is 6 years younger than Sam. What is the combined ages of these four people in John's family?

f.) 83 years

h.) 79 years

g.) 56 years

j.) Not Here

6.) The population of Dallas, Texas is 4,636,309. What is the number with the same value in expanded form?

a.) 400,000 + 30,000 + 6,000 + 300 + 9

c.) 4,000,000 + 600,000 + 30,000 + 300 + 9

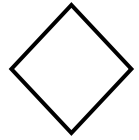
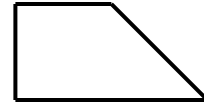
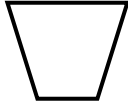
b.) 4,000,000 + 30,000 + 6,000 + 300 + 9

d.) 4,000,000 + 600,000 + 30,000 + 6,000 + 300 + 9

Name: _____

4th Grade Math STAAR Warm-up Number 15

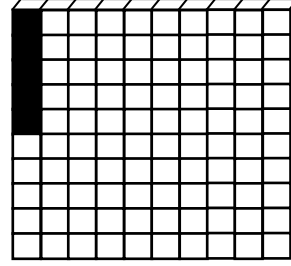
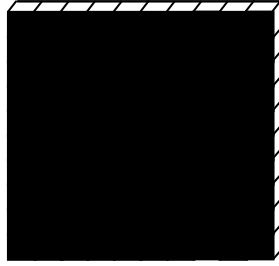
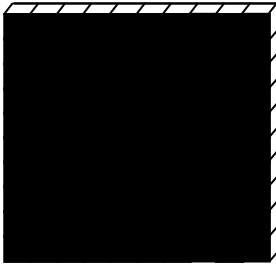
1.) Which is a true statement about the figures shown below?



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

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

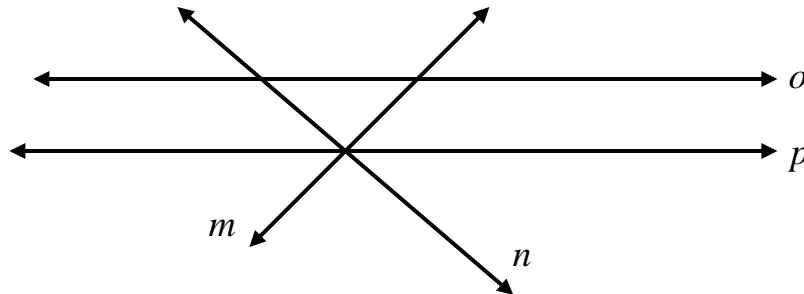
2.) The model below is shaded to represent $2\frac{5}{100}$.



Which decimal does the model represent?

- a.) 2.5 b.) 25.05 c.) 2.05 d.) 2.005

3.) A group of lines is shown below.



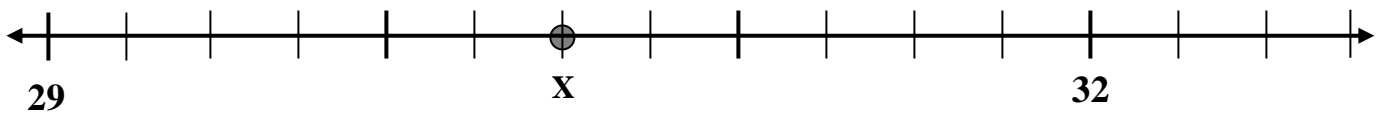
Which two lines appear perpendicular?

- f.) Lines *o* and *p* g.) Lines *m* and *p* h.) Lines *m* and *n* j.) Lines *n* and *o*

Which two lines appear parallel?

- a.) Lines *o* and *p* b.) Lines *m* and *p* c.) Lines *m* and *n* d.) Lines *n* and *o*

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



- a.) $30\frac{1}{4}$ b.) $31\frac{2}{4}$ c.) $30\frac{2}{4}$ d.) $30\frac{3}{4}$

5.) Olga is 30 years old. Valeria is half of Olga's age, and Katerina is 5 years younger than Valeria. What is the difference between Olga's and Katerina's ages?

- f.) 35 years h.) 15 years g.) 20 years j.) Not Here

6.) 53,032,501 people watched the Super Bowl. What is the number with the same value in expanded form?

- a.) $50,000,000 + 30,000 + 2,000 + 500 + 1$ c.) $5,000,000 + 300,000 + 30,000 + 500 + 1$
b.) $50,000,000 + 3,000,000 + 30,000 + 2,000 + 500 + 1$ d.) $5,000,000 + 300,000 + 30,000 + 2,000 + 50 + 1$

Name: _____

4th Grade Math STAAR Warm-up Number 16

1.) Two models below are shaded to represent two different fractions.



Which statement is true using the two fraction models above?

f.) $\frac{5}{12} > \frac{3}{7}$

h.) $\frac{5}{12} < \frac{1}{3}$

g.) $\frac{3}{7} > \frac{5}{12}$

j.) $\frac{3}{7} = \frac{5}{12}$

2.) The number sentence is shown below.

$$\square \times 15 = \triangle$$

Which table shows numbers that correctly complete the number sentence?

a.)

| | | | | |
|-------------|----|----|-----|-----|
| \square | 3 | 5 | 7 | 9 |
| \triangle | 45 | 75 | 105 | 125 |

b.)

| | | | | |
|-------------|----|----|-----|-----|
| \square | 3 | 5 | 7 | 9 |
| \triangle | 30 | 75 | 105 | 125 |

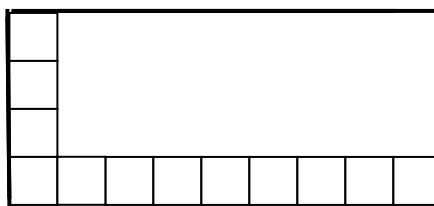
c.)

| | | | | |
|-------------|----|----|-----|-----|
| \square | 3 | 5 | 7 | 9 |
| \triangle | 45 | 75 | 105 | 135 |

d.)

| | | | | |
|-------------|----|----|-----|-----|
| \square | 3 | 5 | 7 | 9 |
| \triangle | 45 | 75 | 105 | 155 |

3.) The model below shows the length and width of a rectangular patio.

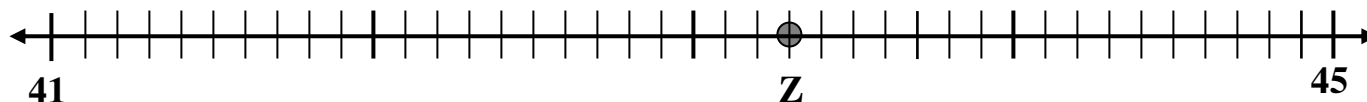


$\square = 1$ square meter

What is the area of this patio in square meters?

- f.) 13 square meters g.) 36 square meters h.) 40 square meters j.) 26 square meters

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



- a.) 42.2 b.) 42.3 c.) 43.2 d.) 43.3

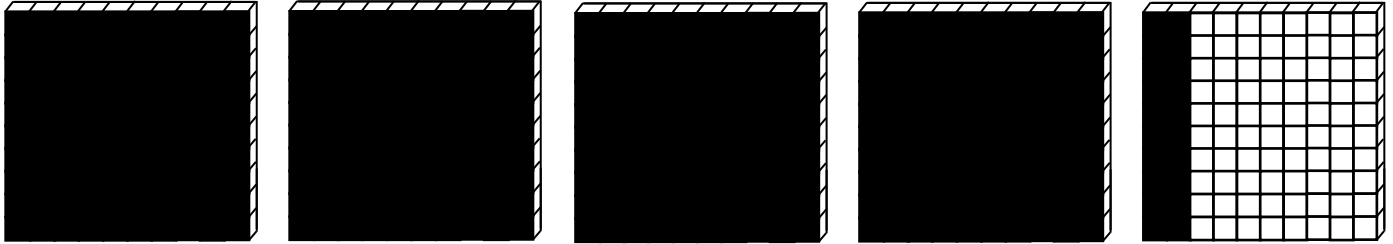
Name: _____

4th Grade Math STAAR Warm-up Number 17

- 1.) Pedro saved 36 dollars every day from his job as a paper boy. He worked every day including Saturdays and Sundays for 52 consecutive days. About how much money did Pedro save over the total days he worked?

f.) 90 dollars g.) 200 dollars h.) 2,000 dollars j.) 20,000 dollars

- 2.) The model below is shaded to represent a decimal.



Which decimal does the model represent?

a.) four and thirty tenths b.) four hundred twenty c.) four and twenty hundredths d.) Not Here

- 3.) Olga drew a quadrilateral. The figure had 2 pairs of congruent sides and 4 right angles. What was the figure that Olga drew? (Draw a picture of each answer choice and match the description in the problem.)

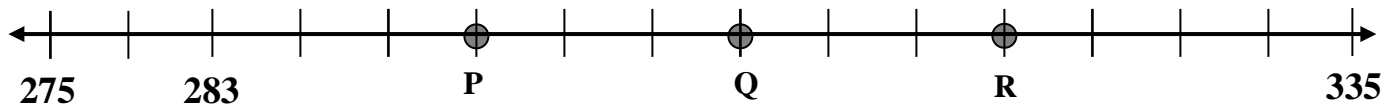
f.) Rectangle g.) trapezoid h.) square j.) rhombus .

- 4.) A theatre made 40,000 dollars over the weekend in total revenues, but total expenses were 19,000. What is the total amount of **profit** the movie theatre made over the weekend? **PROFIT** = _____

- 5.) What is 251.176 rounded to the nearest tenth AND to the nearest hundred?

f.) 251.1 and 200 g.) 251.2 and 251.17 h.) 251.2 and 251.18 j.) 251.2 and 300

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



a.) 319 b.) 295 c.) 327 d.) 307

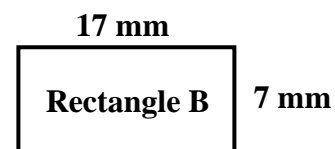
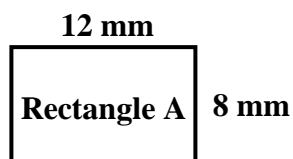
- 7.) Karen had 4 boxes with 8 items in each box. Which number sentence **CANNOT** be used to find the number of total items in the four boxes?

f.) $4 \times 8 = \square$ h.) $\square \div 4 = 8$ g.) $\square + 4 = 8$ j.) $8 \times 4 = \square$

- 8.) Andreas had \$ 5.39 in his pocket. What number is in the hundredths place?

a.) 3 b.) 9 c.) 5 d.) Not Here

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



What is the difference in perimeter between Rectangle A and Rectangle B? _____ millimeters (mm)

Name: _____

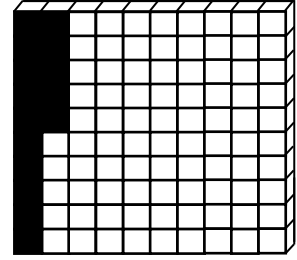
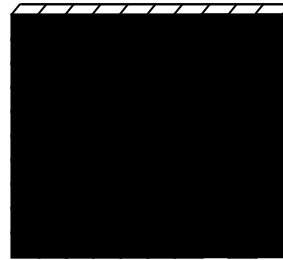
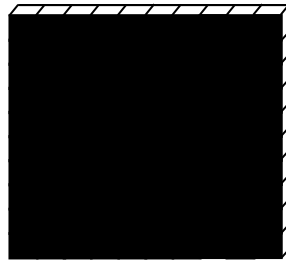
4th Grade Math STAAR Warm-up Number 18

- 1.) Alisa and Andrea purchased 6 radio boom boxes like the one shown below for the 4th grade field trip. The line segment represents the length of the radio boom boxes.



Use the ruler provided to measure the line segment above the radio boom box to the nearest inch. What is the total length of all of the 6 radio boom boxes that Alisa and Andrea purchased?

- f.) 3 in. h.) 6 in. g.) 12 in. j.) 18 inch
- 2.) The model below is shaded to represent $3\frac{15}{100}$.



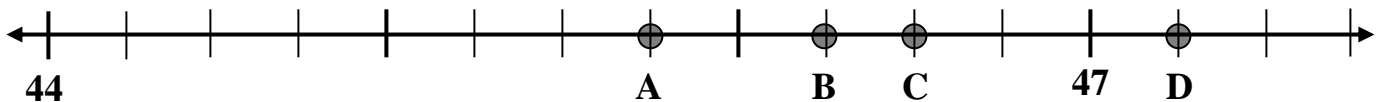
Which decimal does the model represent?

- a.) 31.5 b.) 3.15 c.) 3.51 d.) 3.015
- 3.) The model below is shaded to represent a fraction greater than 1.



Which fraction is represented by this model?

- f.) $\frac{4}{13}$ because there are four figures and 13 figures are shaded.
- g.) $\frac{13}{2}$ because 13 sections are shaded and more than half the figures are shaded.
- h.) $\frac{13}{4}$ because 13 sections are shaded and each figure is divided into 4 equal sections.
- j.) $\frac{13}{3}$ because 13 sections are shaded and 3 figures are completely shaded.
- 4.) Which point best represents point **B** on the number line below?



- a.) $45\frac{1}{4}$ b.) $46\frac{2}{4}$ c.) $46\frac{1}{4}$ d.) $46\frac{3}{4}$

Name: _____

4th Grade Math STAAR Warm-up Number 19

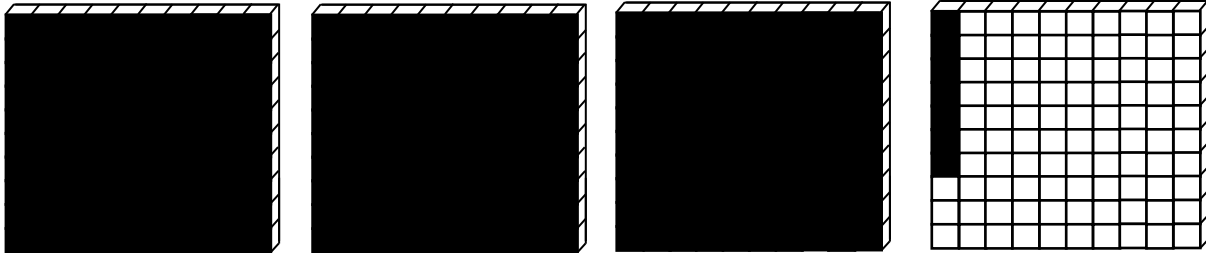
1.) Kisling counted cars for three days last week by her house. The number of cars she counted is listed below.

- ☐ On Tuesday, she counted 138 cars
- ☐ On Wednesday, she counted 253 cars
- ☐ On Friday, she counted 324 cars

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

- f.) 115 g.) 71 h.) 186 j.) 462

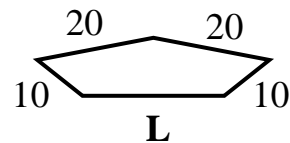
2.) The model below is shaded to represent a decimal.



Which decimal does the model represent?

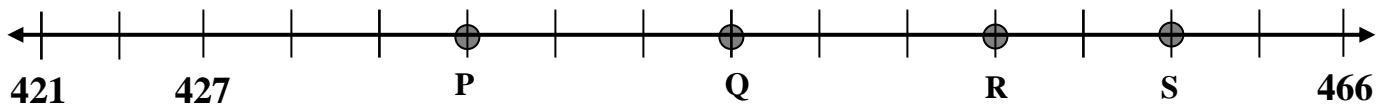
- a.) three and seven tenths b.) three seventy c.) three and seven hundredths d.) Not Here

3.) The pentagon to the right has a perimeter of 100 feet. What is the length of side “L”?



- f.) 160 feet g.) 40 feet h.) 35 feet j.) 60 feet

4.) Which point best represents 454 on the number line below?



- a.) Point P b.) Point Q c.) Point R d.) Point S

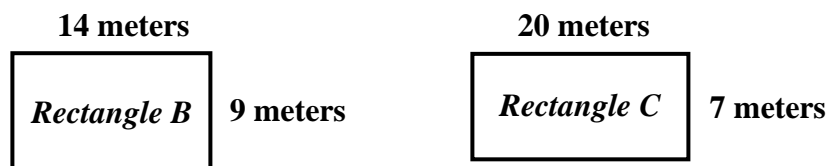
5.) Taylor Intermediate School’s football game had exactly 1,000 people show-up. Each ticket cost \$14. What was the total amount of revenue that was collected at the gate of the football game?

- f.) \$1,400 h.) \$14,000 g.) \$140,000 j.) \$1,400,000

6.) Mabel writes her favorite decimal on a piece of paper. It is 43.0294. What digit is in the tenths place?

- a.) 3 b.) 2 c.) 0 d.) 9

7.) The dimensions of two rectangles are shown to the right.



What is the combined area of Rectangle B and Rectangle C? _____ square meters (m)²

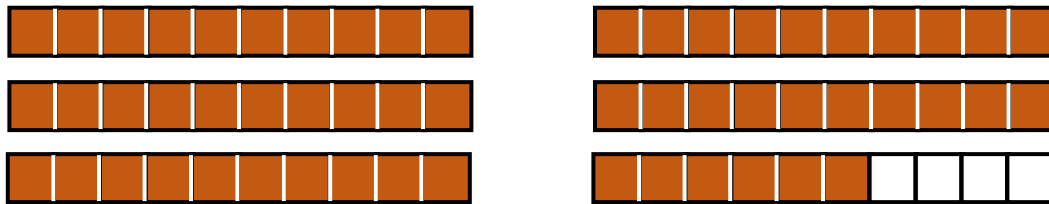
8.) Mabel’s Nail Salon made 2,000 dollars over the weekend in total revenues, but total expenses were 800. What is the total amount of profit the Nail Salon made over the weekend?

- f.) \$1,400 h.) \$2,800 g.) \$1,200 j.) \$1,200,000

Name: _____

4th Grade Math STAAR Warm-up Number 20

1.) The model below is shaded to represent a number greater than 1.



What fraction and decimal represent that number?



f.) $\frac{66}{100}$ and 0.66

h.) $5\frac{66}{100}$ and 5.66



g.) $5\frac{6}{10}$ and 5.06



j.) $5\frac{6}{10}$ and 5.6



2.) The table shows two related sets of numbers.



|  |  |
|---|---|
| 80 | 20 |
| 60 | 15 |
| 48 | 12 |
| 12 | 3 |

Which of the following describes the relationship in the table?

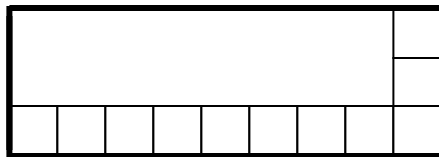
a.)  - 60 = 


b.)  \div 4 = 

c.)  - 45 = 

d.)  \div 3 = 

3.) The model below shows the length and width of a rectangular garden.



 = 1 square feet

What is the perimeter of this garden in feet?

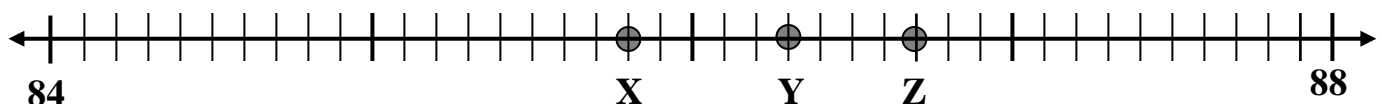
f.) 12 feet

g.) 36 feet

h.) 40 feet

j.) 24 feet

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



a.) 85.8

b.) 86.3

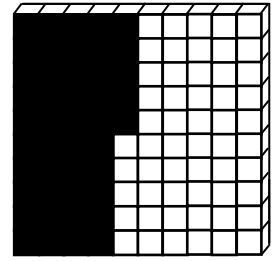
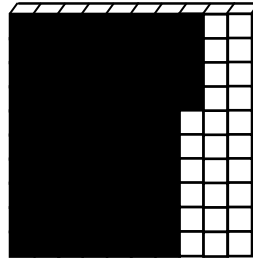
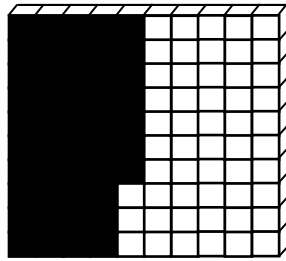
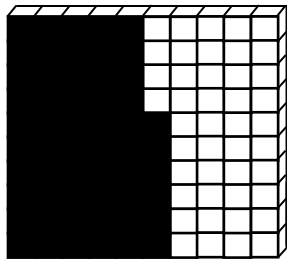
c.) 85.3

d.) 86.7

Name: _____

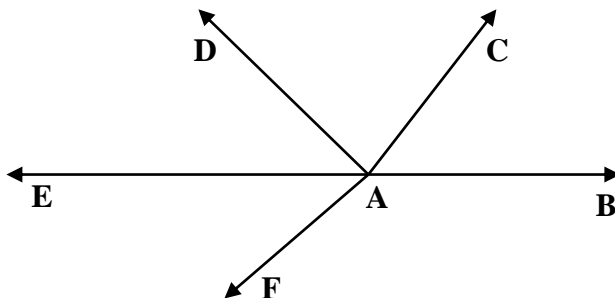
4th Grade Math STAAR Warm-up Number 21

- 1.) The shaded models below represent four different decimal numbers.



Which list shows these decimal numbers in order from least to greatest?

- a.) 0.56 0.47 0.74 0.45
b.) 0.74 0.56 0.47 0.45
c.) 0.45 0.47 0.56 0.74
d.) 0.45 0.47 0.74 0.56
- 2.) Which point best represents $44\frac{3}{4}$ on the number line below?
-
- a.) Point P b.) Point Q c.) Point R d.) Point S
- 3.) Taylor used 435 cubes to make 5 ‘cube’ stacked columns. He used an equal number of cubes in each column. How many cubes did Taylor use in each column?
- f.) 2,175 h.) 430 g.) 87 j.) Not Here
- 4.) Olga writes her favorite decimal on a piece of paper. It is 643.0294. What is the sum of the value of the digits in the ones place and the hundreds place?
- a.) 7 b.) 3 c.) 2 d.) 9
- 5.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:



Angle Measures:

- \angle CAB = 55°
 \angle CAD = 65°
 \angle DAE = 60°
 \angle EAF = 50°
 \angle FAB = 130°

What is the SUM of \angle CAB and \angle CAD, and the DIFFERENCE of \angle FAB and \angle CAD?

- f.) 115° and 65° g.) 105° and 55° h.) 120° and 55° j.) Not Here
- 6.) What is the value of the “4” and the “8” in the following number? 57,134,219.281
- a.) (4×100) and (8×0.01) b.) $(4 \times 1,000)$ and 0.08 c.) 4,000 and $8 \times \frac{1}{100}$ d.) b and c are correct
- 7.) Jenkins Accounting had fixed expenses equaling 200 dollars and variable expenses of 300 dollars. The company had revenues of 1,050 dollars. What was Jenkins Accounting’s profit?
- f.) 650 g.) 550 h.) 1,550 j.) 850

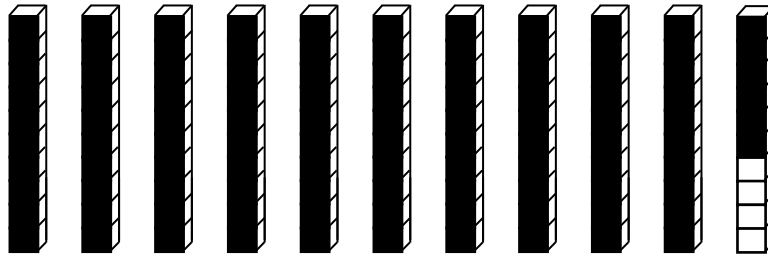
Name: _____

4th Grade Math STAAR Warm-up Number 22

- 1.) Luis spent 417 dollars on an Easter present for his mother and 4 historical fiction books. He spent 305 dollars on the Easter day present for his mother. Each book cost the same amount of money. How much did Luis spend on each book?

- f.) 180.50 dollars, $417 + 305 = 722$ and $722 \div 4 = 180.50$
 g.) 2,888 dollars, because $417 + 305 = 722$ and $722 \times 4 = 2,888$
 h.) 28 dollars, because $417 - 305 = 112$ and $112 \div 4 = 28$
 j.) Not Here

- 2.) The model below is shaded to represent a decimal.

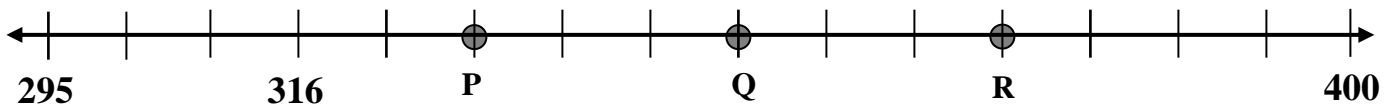


Which decimal does the model represent?

- a.) ten and sixty tenths b.) ten hundred six c.) ten and six tenths d.) one hundred six tenths
- 3.) The fixed expenses each month for Soriano Ballet classes are 3,000 dollars for rent and 300 dollars for shoes. The variable expenses were 10 dollars per student. 70 students attended classes last month. What is the total expenses for Soriano Ballet last month?

- f.) 3,300 dollars g.) 4,000 dollars h.) 3,310 dollars j.) 3,380 dollars

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



- a.) 351 b.) 330 c.) 358 d.) 372

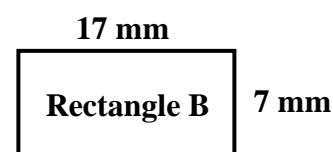
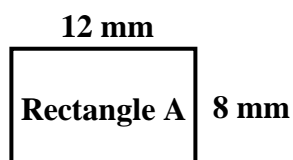
- 5.) Andreas has 9 crates with 5 items in each box. Which number sentence **CANNOT** be used to find the number of total items in the nine crates?

- f.) $5 \times 9 = \square$ h.) $\square \div 5 = 9$ g.) $\square + 5 = 9$ j.) $9 \times 5 = \square$

- 6.) Latrese has \$ 235.98 in his pocket. What digit or number is in the tenths place?

- a.) 3 b.) 9 c.) 5 d.) 8

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



What is the sum of the areas of Rectangle A and Rectangle B? _____square millimeters (mm)²

- 8.) Adriana sold flowers to her teachers. What was her *profit* if she had the following money transactions?

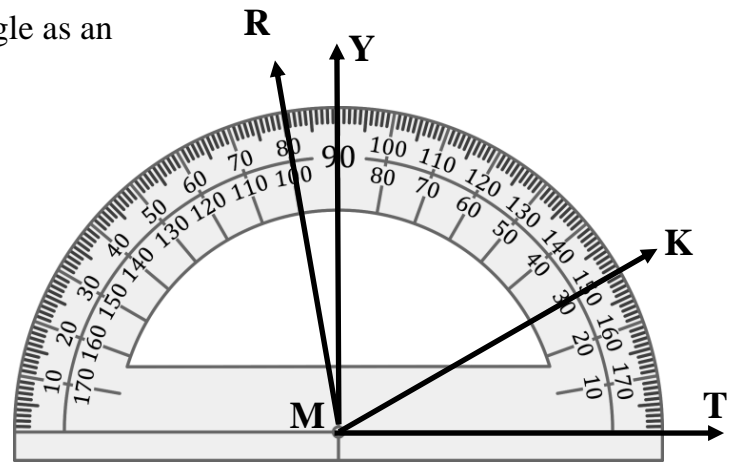
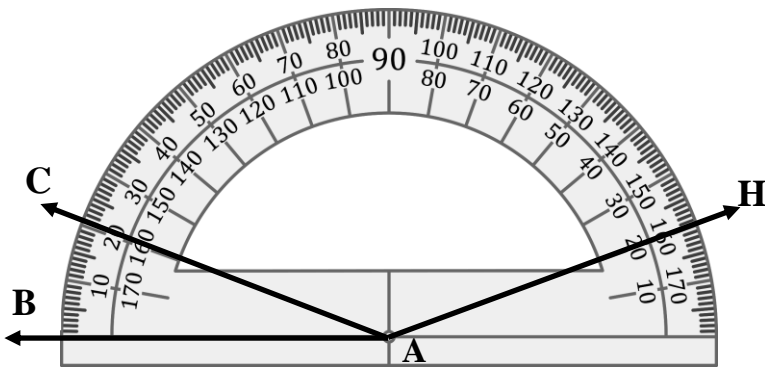
- Her total expenses were \$20.42.
- She sold 10 flowers for \$3 each.

- a.) \$ 52.42 b.) \$ 9.58 c.) \$ 10.48 d.) \$ 23.42

Name: _____

4th Grade Math **STAAR Warm-up Number 23**

- 1.) What is the measure of each angle? Label the angle as an acute, right or an obtuse angle and the measure.



- A.) Angle BAC is an _____ angle with a measure = _____°
 B.) Angle BAH is an _____ angle with a measure = _____°
 C.) Angle TMR is an _____ angle with a measure = _____°
 D.) Angle TMY is a _____ angle with a measure = _____°
 E.) Angle RMY is an _____ angle with a measure = _____°

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

| 1 WHOLE | | | | | | | |
|---------|--|-----|--|-----|--|--|--|
| 1/2 | | | | 1/2 | | | |
| | | 1/3 | | | | | |
| | | | | | | | |
| | | 1/6 | | | | | |
| | | | | | | | |

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

- 3.) Which statement is true about a hexagon?

A.) It has 6 sides and 5 vertices.

C.) It must have a right angle.

B.) It has more vertices than sides.

D.) The number of vertices equals the number of its sides.

- 4.) Ms. Sandoval's class placed 20 dozen cookies into 4 boxes. If she placed an equal number of cookies in each box, how many cookies are put in each box?

F.) 40 cookies

G.) 50 cookies

H.) 60 cookies

I.) 70 cookies

Name: _____

4th Grade Math STAAR Warm-up Number 24

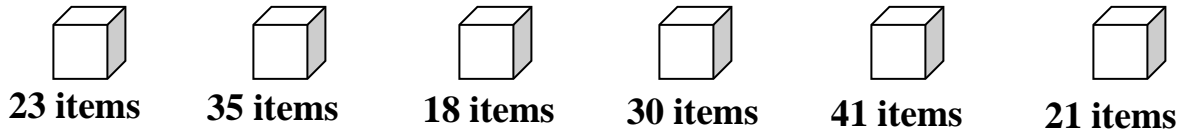
- 1.) Two models below are shaded to represent two different fractions.



Which statement is true using the two fraction models above?

- F.) $\frac{5}{12} > \frac{4}{7}$ G.) $\frac{5}{12} < \frac{1}{3}$ H.) $\frac{4}{7} > \frac{5}{12}$ J.) $\frac{4}{7} = \frac{5}{12}$

- 2.) The picture below shows the number of items in 6 boxes that Jenny has in her attic at home.






If Jenny opened the boxes and put the number of items into 7 equal groups, how many items would be in each group?

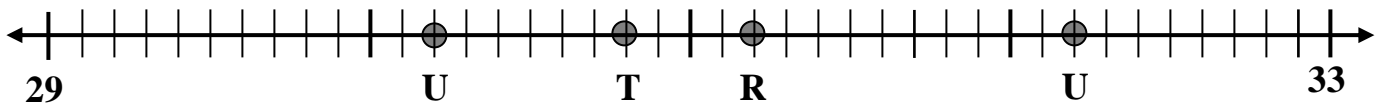
- A.) 42 B.) 24 C.) 168 D.) 34

- 3.) Which figure shows only a picture of a single (90°) rotation of the Letter shown in the box?



- F.)  G.)  H.)  J.) Not Here

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

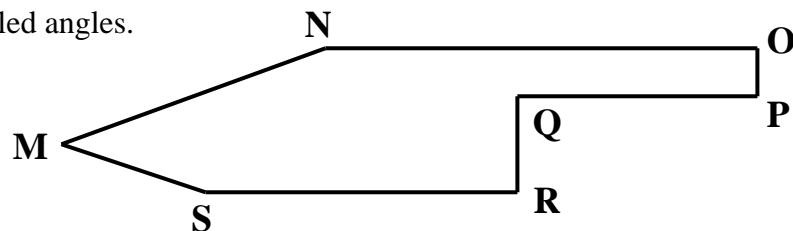


- A.) 30.2 B.) 30.3 C.) 31.8 D.) 30.8

- 5.) There are 32 bottles. Each bottle holds 48 ounces of vinegar. How many ounces of vinegar are in the 32 bottles?

- F.) 112 G.) 80 H.) 1536 J.) Not Here

- 6.) The figure below shows 8 labeled angles.



- A.) List the angles that appear to be **acute** angles on the line. _____
 B.) List the angles that appear to be **right** angles on the line. _____
 C.) List the angles that appear to be **obtuse** angles on the line. _____

- 7.) Which best completes the expression $34 \times 10,000$?

- A.) 340 B.) 3,400 C.) 340,000 D.) 34,000

- 1.) The model below is shaded to represent a fraction greater than 1.



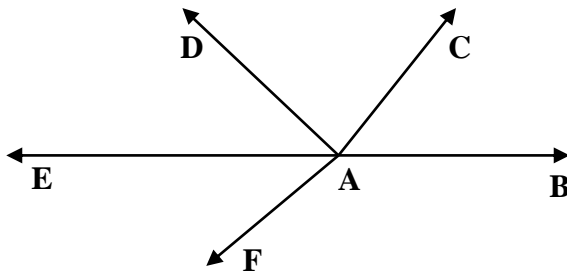
Which fraction is represented by this model?

- F.) $\frac{6}{33}$ because there are 6 figures and 33 sections are shaded.
- G.) $\frac{33}{2}$ because 33 sections are shaded and more than half the figures are shaded.
- H.) $\frac{33}{6}$ because 33 sections are shaded and each figure is divided into 6 equal sections.
- J.) $\frac{33}{5}$ because 33 sections are shaded of 5 figures that are completely shaded.
- 2.) The table below shows the total number of letters with different numbers of stamps.

| Letters | |
|-------------------|------------------------|
| Number of Letters | Total Number of Stamps |
| 13 | 52 |
| 17 | 68 |
| 21 | 84 |
| 26 | 104 |

Which of the following describes the relationship in the table?

- A.) Total Number of Stamps + 29 = Number of Letters
- B.) Total Number of Stamps x 4 = Number of Letters
- C.) Total Number of Stamps ÷ 4 = Number of Letters
- D.) Total Number of Stamps - 29 = Number of Letters
- 3.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:



Angle Measures:

- $\angle CAB = 55^\circ$
- $\angle CAD = 65^\circ$
- $\angle DAE = 60^\circ$
- $\angle EAF = 50^\circ$
- $\angle FAB = 130^\circ$

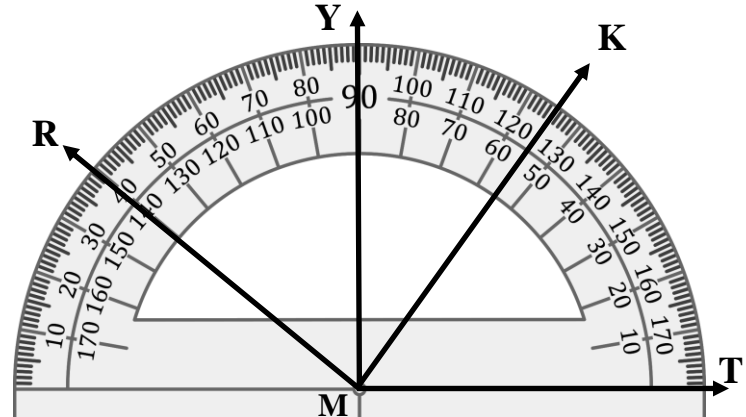
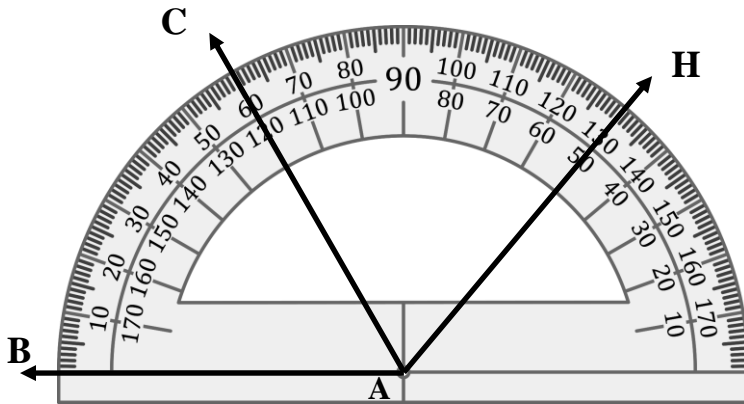
What is the sum of the adjacent angles $\angle DAE$ and $\angle EAF$ compared to a circle's total angle measure (360°)?

- F.) $105^\circ/360^\circ$ G.) $90^\circ/360^\circ$ H.) $110^\circ/360^\circ$ J.) $100^\circ/360^\circ$
- 4.) Ms. Johnson wants to place 24 pints of orange juice into 14 glasses. Each glass can hold 2 pints. Does Ms. Johnson have enough orange juice to fill the 14 glasses?
- A.) Yes. 14 glasses ÷ 2 pints each = 7 pints which is greater than 24 pints.
- B.) Yes. 14 glasses x 2 pints each = 28 pints which is greater than 24 pints.
- C.) Yes. 14 glasses x 24 pints each = 336 pints which is greater than 24 pints.
- D.) No. 14 glasses x 2 pints each ÷ 14 glasses = 14 pints which is less than 24 pints.
- 5.) The decimal number 34.298 is written on the board. Which digits are in the tens and hundredths place?
- F.) 3 and 9 G.) 4 and 2 H.) 2 and 9 J.) 3 and 8

Name: _____

4th Grade Math **STAAR Warm-up Number 26**

- 1.) What is the measure of each angle? Label the angle as an acute, obtuse, right or straight?



- A.) Angle BAC is an _____ angle with a measure = _____°
 B.) Angle BAH is an _____ angle with a measure = _____°
 C.) Angle TMR is an _____ angle with a measure = _____°
 D.) Angle TMY is a _____ angle with a measure = _____°
 E.) Angle RMY is an _____ angle with a measure = _____°

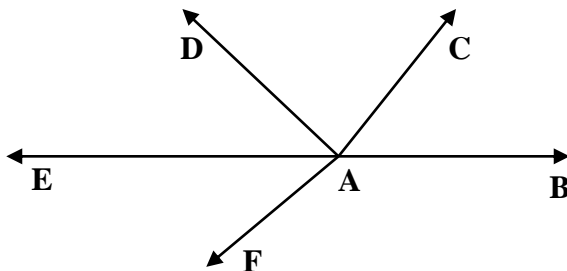
- 2.) The model below is shaded to represent a fraction greater than 1 whole.



Which fraction is represented by this model?

- F.) $\frac{5}{27}$ because there are 5 figures and 27 sections are shaded.
 G.) $\frac{27}{2}$ because 27 sections are shaded and more than half the figures are shaded.
 H.) $\frac{6}{27}$ because 27 sections are shaded and each figure is divided into 6 equal sections.
 J.) $\frac{27}{6}$ because 27 sections are shaded and each figure is divided into 6 equal sections.

- 3.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:



Angle Measures:

- $\angle CAB = 50^\circ$
 $\angle CAD = 60^\circ$
 $\angle DAE = 45^\circ$
 $\angle EAF = 40^\circ$
 $\angle FAB = 140^\circ$

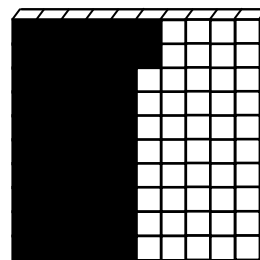
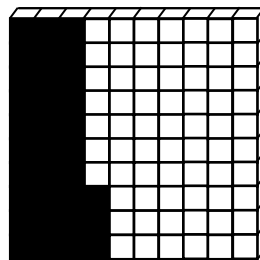
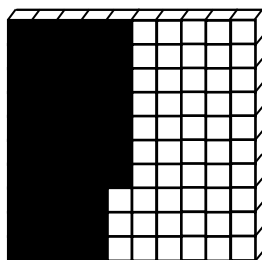
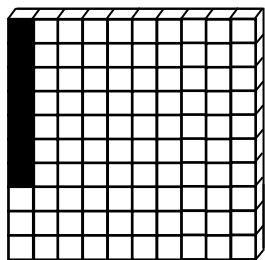
What is the sum of the adjacent angles $\angle FAB$ and $\angle EAF$ compared to a circle's total angle measure (360°)?

- A.) $110^\circ/360^\circ$ B.) $170^\circ/360^\circ$ C.) $180^\circ/360^\circ$ D.) $195^\circ/360^\circ$

Name: _____

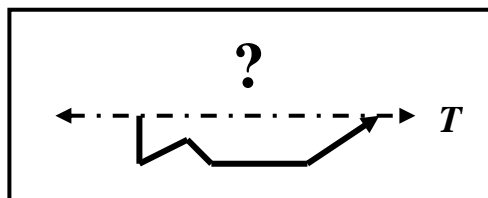
4th Grade Math STAAR Warm-up Number 27

- 1.) The shaded models below represent four different decimal numbers.

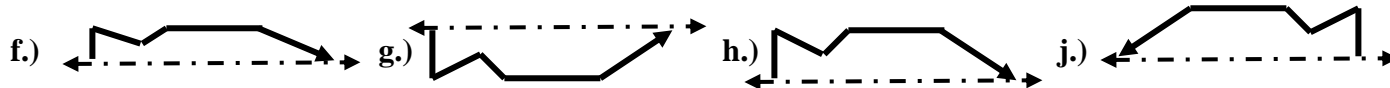


Which list shows these decimal numbers in order from greatest to least?

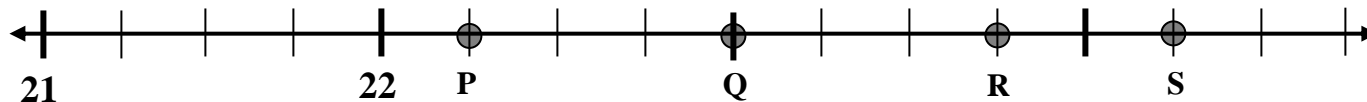
- a.) 0.07 0.47 0.52 0.33
 b.) 0.52 0.47 0.33 0.7
 c.) 0.07 0.33 0.47 0.52
 d.) 0.52 0.47 0.33 0.07
- 2.) The bottom part of a figure is shown. The top part is missing. Line T is a line of symmetry.



Which of the following shows the top part of the figure?



- 3.) Which point best represents $24\frac{1}{4}$ on the number line below?

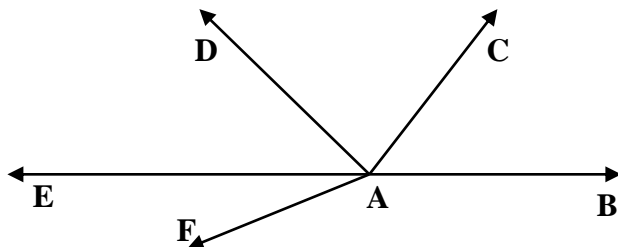


- a.) Point P b.) Point Q c.) Point R d.) Point S
- 4.) A three dimensional figure is shown below. How many more edges than faces does this figure have?



Name the pyramid shown to the left: _____

- f.) 2 h.) 4 g.) 10 j.) Not Here
- 5.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:



Angle Measures:

- \angle CAB = 55°
 \angle CAD = 65°
 \angle DAE = 60°
 \angle EAF = 50°
 \angle FAB = 130°

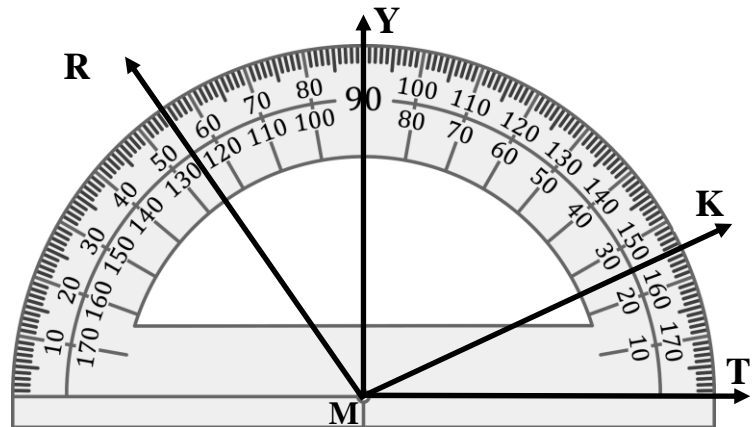
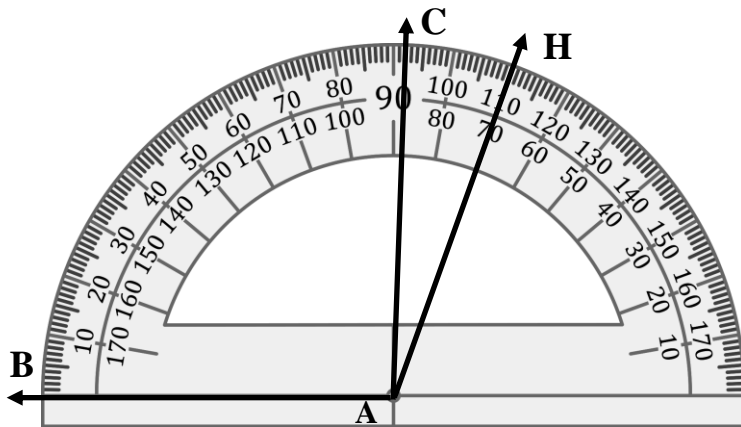
Find the sum of the adjacent angles \angle CAD and \angle DAE compared to a circle's total angle measure (360°)?

- a.) $125^\circ/360^\circ$ b.) $125^\circ/360^\circ$ c.) $130^\circ/360^\circ$ d.) Not Here

Name: _____

4th Grade Math **STAAR Warm-up Number 28**

- 1.) What is the measure of each angle? Label the angle as an acute, obtuse, right or straight?



- A.) Angle BAC is an _____ angle with a measure = _____°
 B.) Angle BAH is an _____ angle with a measure = _____°
 C.) Angle TMR is an _____ angle with a measure = _____°
 D.) Angle TMY is a _____ angle with a measure = _____°
 E.) Angle YMK is an _____ angle with a measure = _____°

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

- 3.) Which statement is true about quadrilaterals?

- A.) They all have 4 sides and 4 vertices. C.) They *may* have a right angle.
 B.) They could be a trapezoid, square, or rectangle. D.) All answers are true of quadrilaterals

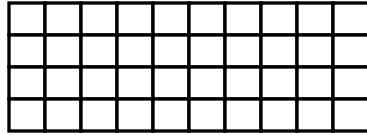
- 4.) Jesus' father's truck weighs 3 tons. His best friend's dad's car weighs 4,035 pounds. What is the difference between these two weights in pounds?

- F.) 4,032 pounds G.) 1,965 pounds H.) 10,035 pounds J.) Not Here

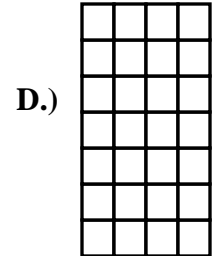
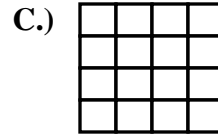
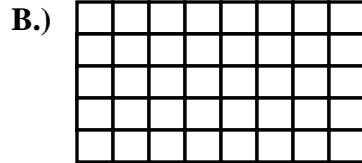
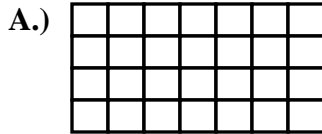
Name: _____

4th Grade Math STAAR Warm-up Number 29

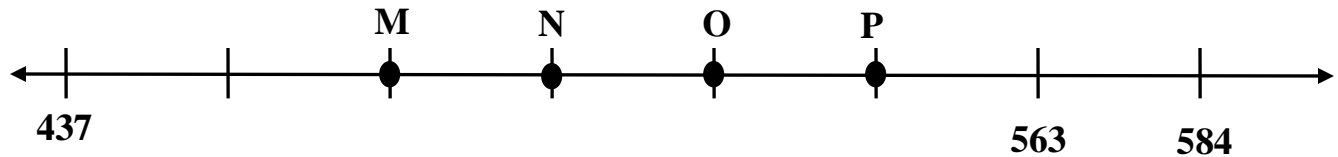
- 1.) The length and width of the array below represent two factors of a number?



Which array below represents two different factors of the same number?



- 2.) Which point represents 521 on the number line below?



F.) Point M

G.) Point N

H.) Point O

J.) Point P

- 3.) There are 360 students at Robert F. Kennedy Middle School. All students are required to join and participate on the schools' soccer teams. The same number of players are on each team. Which group of teams could **NOT** describe the soccer teams at the Middle School?

A.) 12 teams with 30 players on each team.

C.) 10 teams with 36 players on each team.

B.) 15 teams with 22 players on each team.

D.) 9 teams with 40 players on each team.

- 4.) A financial institution may be a bank or a credit union. Andreas walked into his bank. What service does Andreas' bank not offer him?

F.) Offer him loans of money with interest that he will pay back to put a new roof on his business.

G.) Offer to pay him interest on money that he puts in the bank in his savings account.

H.) Offer suggestions on how he should spend his money that he receives from working at his job.

J.) Offer him cash from his savings account where he has deposited money over a long period of time.

- 5.) Bill has a \$10 dollar bill, 2 quarters, 1 dime and 7 nickels. She purchased a poster the cost \$ 6.28. How much money does he have left?

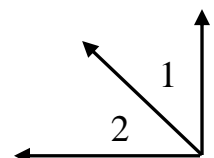
A.) \$ 4.67

B.) \$ 4.77

C.) \$ 4.57

D.) \$ 5.67

- 6.) Angle 1 and angle 2 form a right angle. Angle 2 has a measure of 56°



What is the measure of angle 1?

A.) 44°

B.) 146°

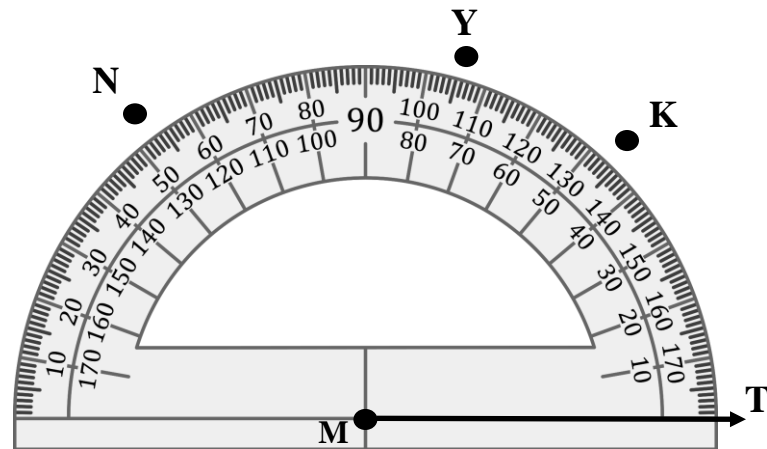
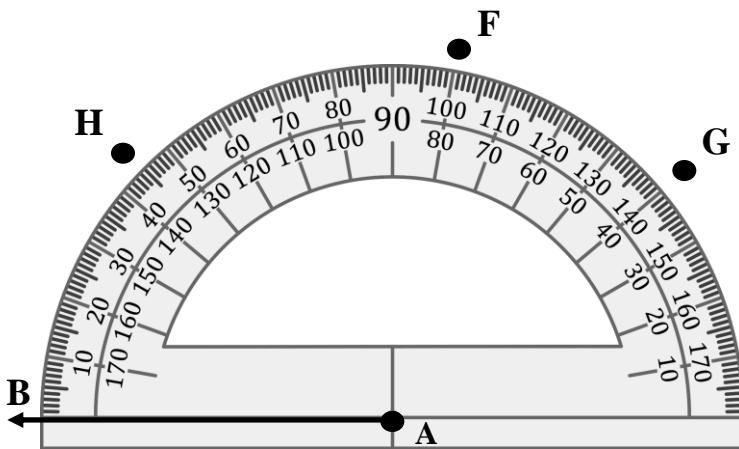
C.) 34°

D.) 24°

Name: _____

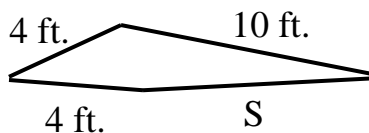
4th Grade Math **STAAR Warm-up Number 30**

- 1.) The two protractors are shown below. Answer the question under each protractor?



- A.) To complete an angle with a measure of 45° , a ray must connect to one of three points. That ray should connect from point **A** to Point _____. Draw the ray.
- B.) To complete an angle with a measure of 105° , a ray must connect to one of three points. That ray should connect from point **M** to Point _____. Draw the ray.

- 2.) What is the length “S” of the missing side of the quadrilateral if the perimeter is 28 feet in length?



S = _____ feet

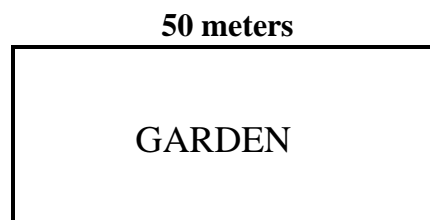
- 3.) Which space figure has exactly 5 vertices?

- A.) Rectangular Prism C.) Rectangular Pyramid
B.) Triangular Prism D.) Triangular Pyramid

- 4.) Which figure cannot have parallel line segments?

- F.) Rectangle G.) Pentagon H.) Triangle I.) Hexagon

- 5.) The garden below was designed in the shape of a rectangle. It has a length of 50 meters. The perimeter of the garden is 150 meters.

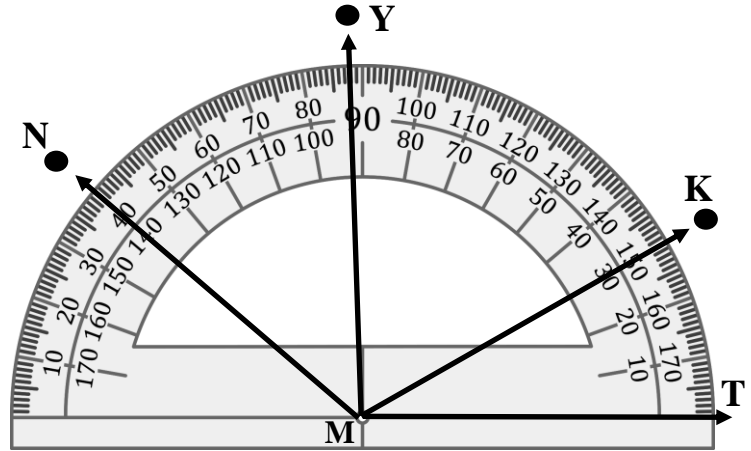


What is the width of the garden in meters?

- A.) 50 meters B.) 25 meters C.) 10 meters D.) 30 meters
- 6.) If the rectangular garden in problem 5.) above has a length of 15 meters and a width of 10 meters, what is the area of the garden?

- A.) 150 square meters B.) 250 square meters C.) 100 square meters D.) Not here

-
- A diagram of a force table. A central point A is the origin. Three forces are represented by vectors: F points vertically upwards (0°), G points towards the 30° mark, and H points towards the 210° mark. The circular scale is graduated in degrees from 0 to 180 in both directions.



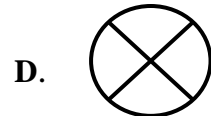
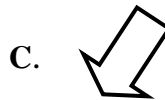
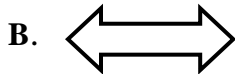
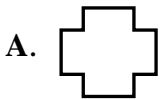
-

- G.)** $\frac{4}{3}$

H.) $\frac{3}{2}$

J.) $\frac{2}{4}$

- 1.) A classroom desk has a mass of 10 kg. Which object has a mass closest to the mass of a desk?
A.) 20 bottles (16 oz.) water B.) motorcycle C.) a 4th grader D.) a school principal
- 2.) The number 581.03 can be expressed in expanded form as?
F.) $(5 \times 100) + (8 \times 100) + (1 \times 1) + (0 \times 0.1) + (3 \times 0.01)$
G.) $(5 \times 10) + (8 \times 100) + (1 \times 1) + (3 \times 0.1) + (0 \times 0.01)$
H.) $(5 \times 100) + (8 \times 10) + (1 \times 1) + (0 \times 0.1) + (3 \times 0.01)$
J.) $(5 \times 1,000) + (8 \times 100) + (1 \times 1) + (0 \times 0.1) + (3 \times 0.01)$
- 3.) Olga, Mabel, Yadira, Kisling and Alisa measured 45 yards on the playground. How many equivalent feet is their measurement of 45 yards?
A.) 90 feet B.) 22.5 feet C.) 135 feet D.) 15 feet
- 4.) Griselda has 152 small dolls in her collection. Griselda has 8 shelves where she places her dolls. If she places an equal number of dolls on each shelf, how many dolls are on each shelf?
F.) 19 dolls G.) 1,216 dolls H.) 190 dolls J.) 160 dolls
- 5.) Which figure appears to have ONLY 1 line of symmetry?



- 6.) Samantha made pancakes for the Padron Elementary teacher breakfast.

- $\frac{4}{9}$ of the pancakes were buttermilk.
- $\frac{3}{9}$ of the pancakes were banana.

If the rest of the pancakes that Samantha made were chocolate chip, what is the fraction of pancakes that were chocolate chip pancakes?

A. $\frac{7}{9}$ because $\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

B. $\frac{1}{9}$ because $\frac{4}{9} - \frac{3}{9} = \frac{1}{9}$

C. $\frac{16}{9}$ because $\frac{4}{9} + \frac{3}{9} = \frac{7}{9}$ and $\frac{9}{9} + \frac{7}{9} = \frac{16}{9}$

D. $\frac{2}{9}$ because $\frac{4}{9} + \frac{3}{9} = \frac{7}{9}$ and $\frac{9}{9} - \frac{7}{9} = \frac{2}{9}$

- 7.) Davina has 24 pizzas. Melinda has half as many hamburgers as Davina has pizzas. Andreas has double the number of hotdogs that Davina has pizzas. How many of food items does each person have?
- g.) Davina = 24, Melinda 12, Andreas = 36 f.) Davina = 24, Melinda 48, Andreas = 12
h.) Davina = 24, Melinda 36, Andreas = 12 i.) Davina = 24, Melinda 12, Andreas = 48

Name: _____

4th Grade Math STAAR Warm-up Number 33

- 1.) Johnny gets off work each day at 5:20 PM. It takes him between 37 to 55 minutes to drive home. What is a reasonable time he gets home each night after driving home?

A.) 5:55 PM B.) 6:55 PM C.) 5:59 PM D.) 6:35 PM

- 2.) Which statement is true about the number: 835,491.27?

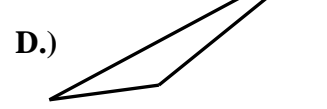
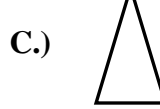
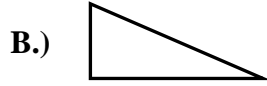
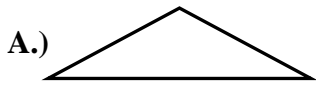
F.) The digit 9 has a value of (9×100)

G.) The digit 5 has a value of $(5 \times 10,000)$

H.) The digit 2 has a value of (2×0.1)

J.) The digit 3 has a value of $(3 \times 100,000)$

- 3.) Which triangle appears to be an acute triangle?



- 4.) Which comparison of fractions is true?

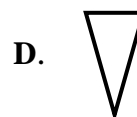
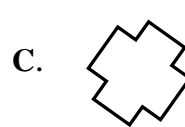
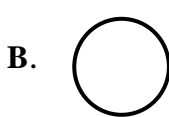
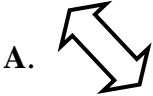
F.) $\frac{2}{5} > \frac{3}{9}$

G.) $\frac{4}{9} < \frac{5}{12}$

H.) $\frac{2}{3} > \frac{4}{5}$

J.) $\frac{4}{7} = \frac{5}{9}$

- 5.) Which figure appears to have more than 2 lines of symmetry?



- 6.) James made cookies for the Graham Elementary carnival.

- $\frac{4}{8}$ of the cookies were pecan.
- $\frac{3}{8}$ of the cookies were peanut butter.

If the rest of the cookies that James made were chocolate chip, what is the fraction of cookies that were NOT chocolate chip **with** the correct explanation?

A. $\frac{7}{8}$ because $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

B. $\frac{1}{8}$ because $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$

C. $\frac{15}{8}$ because $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$ and $\frac{8}{8} + \frac{7}{8} = \frac{15}{8}$

D. $\frac{1}{8}$ because $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$ and $\frac{8}{8} - \frac{7}{8} = \frac{1}{8}$

- 7.) Betty has 32 tacos. Priscilla has half as many sandwiches as Betty has tacos. Luis has triple the number of burgers that Priscilla has sandwiches. How many of food items does each person have?

h.) Betty = 32, Priscilla 64, Luis = 192

f.) Betty = 32, Priscilla 16, Luis = 64

i.) Betty = 32, Priscilla 16, Luis = 48

k.) Betty = 32, Priscilla 12, Luis = 36

Name: _____

4th Grade Math STAAR Warm-up Number 34

- 1.) Janna goes to work each morning at 6:10 AM. It takes her between 35 to 65 minutes to drive there. What is a reasonable time she arrives at work each morning?

A.) 6:30 AM B.) 7:31 AM C.) 6:35 AM D.) 7:10 AM

- 2.) Victor bought a new truck. He did not pay cash. He financed the car so he would make the same monthly payments until the truck was paid off. What kind of an expense are new car and truck payments?

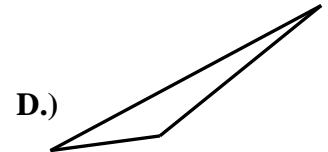
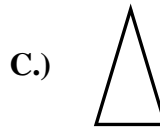
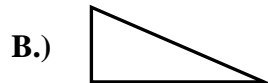
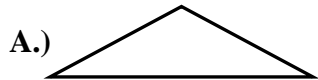
F.) Variable Expense

G.) Fixed Expense then a Variable Expense

H.) Fixed Expense

J.) An expense I wish I did not have!

- 3.) Which triangle appears to be a right triangle?



- 4.) Which comparison of fractions is true?

F.) $\frac{1}{5} > \frac{3}{4}$

G.) $\frac{2}{9} < \frac{5}{11}$

H.) $\frac{1}{3} > \frac{2}{5}$

J.) $\frac{4}{9} = \frac{3}{9}$

- 5.) The distance between a school building and its playground is 450 feet. What is this distance in yards?

A. 1,350 yards

B. 1,050 yards

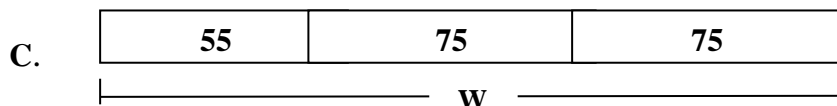
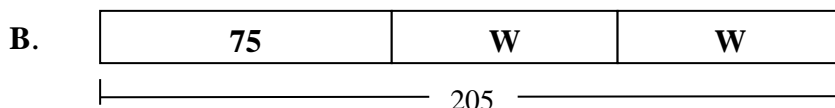
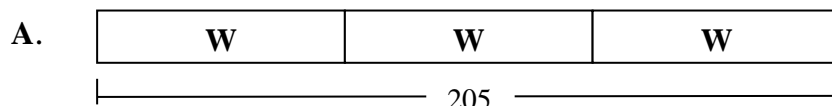
C. 150 yards

D. 15 yards

- 6.) Joe read a total of 205 pages in three days.

- On the first day, he read 75 pages.
- On the second and third days, he read the same number of pages.

Which diagram shows a way to find **W**, the number of pages Joe reads on the third day?



- 7.) Brendan made \$ 421.15 from selling three old computers. He had the following expenses from repairing the old computers: 150 dollars paying a computer repairman and \$45.15 for hard drives. What was his profit?

h.) \$ 226.30

i.) 228.00

k.) \$ 226.00

f.) Not Here

Name: _____

4 Grade Math **STAAR Warm-up Number 35**

- 1.) $4\frac{7}{100}$ full. Which decimal is equivalent to this number?

A.) 4.70 B.) 4.7 C.) 4.07 D.) 7.04

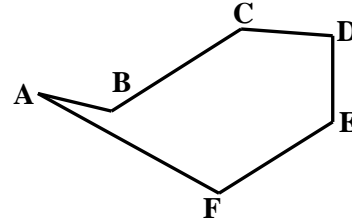
- 2.) Which line segments appear to be perpendicular and which ones parallel in the figure? ***Choose two answers!***

J.) Line segments BC & FE are parallel, and...

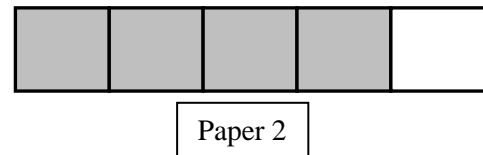
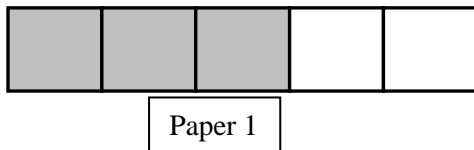
K.) Line segments _____ are parallel, and...

L.) Line segments AF _____ are perpendicular.

M.) Line segments _____ DE are perpendicular.



- 3.) Mary divided two sheets of paper into equal segments as shown below. The shaded portion represents what Mary used. What fraction of the rolls did Mary use?



F.) $\frac{3}{5}$

G.) $\frac{7}{5}$

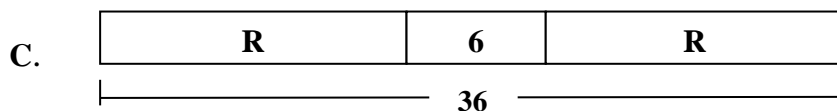
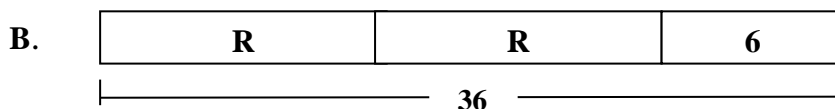
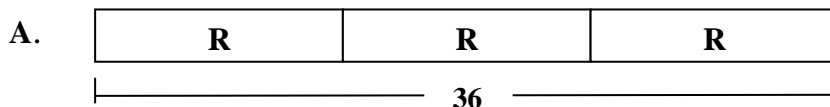
H.) $\frac{4}{5}$

J.) $\frac{5}{7}$

- 4.) Gail ran each day for a total of 36 miles in 3 days.

- On the first and second day, she ran the same number of miles each day.
- On the third day, she ran 6 miles.

Which diagram shows a way to find **R**, the number of miles Gail ran on the second day?



- 5.) The population of the United States is 323,069,000. What is this number in expanded form?

f.) $300,000,000 + 2,000,000 + 300,000 + 60,000 + 9,000$

k.) $300,000,000 + 20,000,000 + 3,000,000 + 60,000 + 9,000$

g.) $30,000,000 + 2,000,000 + 300,000 + 60,000 + 9,000$

i.) $300,000,000 + 20,000,000 + 3,000,000 + 600,000 + 90,000$

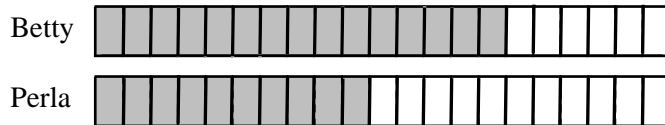
Name: _____

4th Grade Math **STAAR Warm-up Number 36**

- 1.) The current population of the United States is 329,568,041. What is the value of the 3?

A.) 30,000,000 B.) 3,000,000 C.) 300,000,000 D.) Not here

- 2.) Betty and Perla walked together to their house. Perla stopped at the store, and Betty stopped at her friend's house. The shaded part of each fraction represents the distance that each girl walked.



Which expression can be used to find the difference in the distance that Betty walked and the distance that Perla walked?

F.) $\frac{15}{21} + \frac{10}{21} = ?$ G.) $\frac{15}{21} - \frac{10}{21} = ?$ H.) $\frac{21}{15} - \frac{21}{10} = ?$ J.) Not here

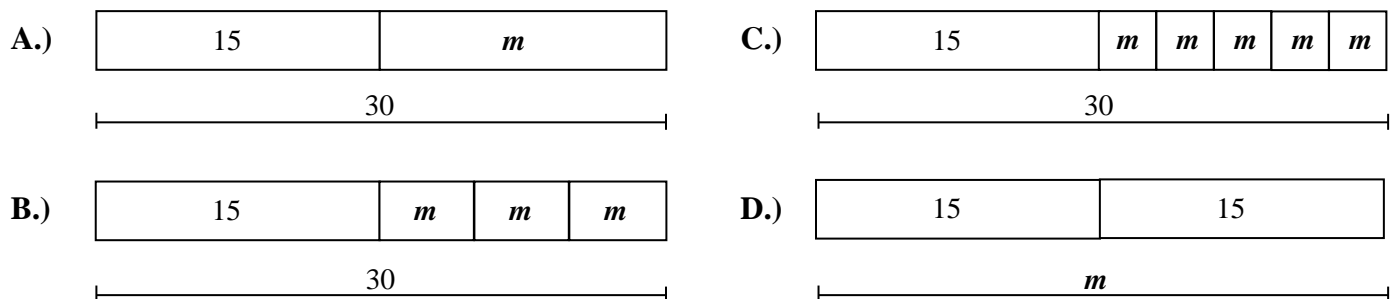
- 3.) What is the decimal equivalent of $\frac{40}{100}$?

A.) 4.1 B.) 0.041 C.) 0.4 D.) 41.41

- 4.) What do banks do for their customers?

F.) They provide coupons to save money on groceries. H.) They loan money to buy cars and houses.
G.) They provide checking and savings accounts. J.) Both H and G choices are correct

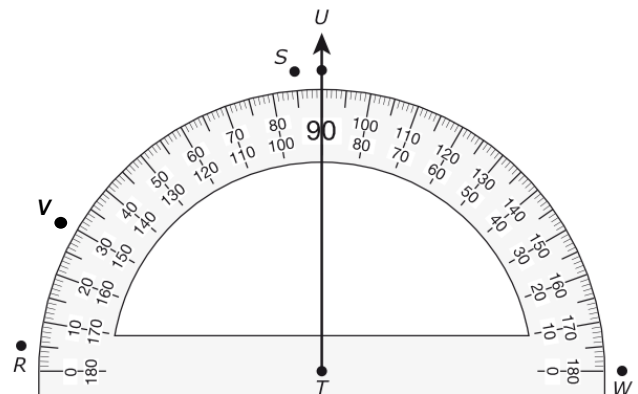
- 5.) Olga had 30 dollars last week. She gave half of the money to her sister. She gave the rest of the money to her 5 brothers. Each brother received the same amount. Which model accurately describes a way to find 'm' – how much money each brother received from Olga?



- 6.) A ray TU has been drawn on the protractor to the right.

To construct an angle that has a measure of 60° , another ray can be drawn that starts at point T and passes through –

F.) Point R H.) Point S
G.) Point V J.) Point W



- 7.) Jesus has 4 bags. Each bag has 5 packs of gum in it. He put an equal number of the packs of gum into 3 boxes. How many packs of gum were left over? _____ packs of gum

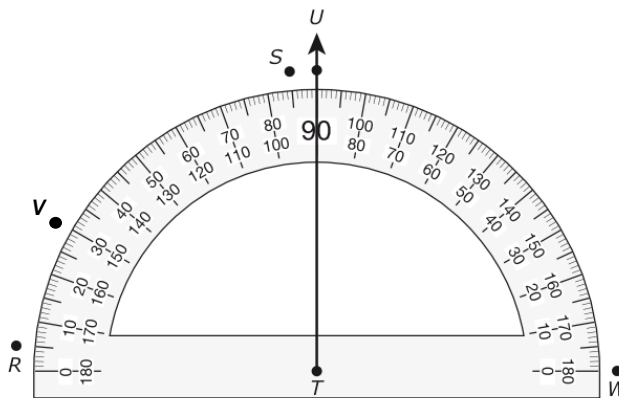
Name: _____

4th Grade Math **STAAR Warm-up Number 37**

- 1.) A ray TU has been drawn on the protractor to the right.

To construct an angle that has a measure of 5° , another ray can be drawn that starts at point **T** and passes through –

- F.) Point *R* H.) Point *S*
G.) Point *V* J.) Point *W*

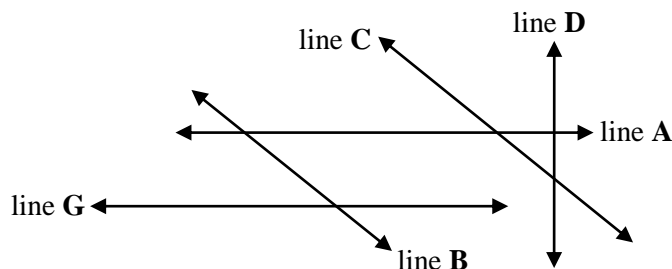


- 2.) Carl has 7 bags. Each bag has 6 small toys in it. He put an equal number of the toys into 8 boxes. How many toys were left over?

_____ toys

- 3.) What line is perpendicular to line **G**?

- A.) line *A* C.) line *C*
B.) line *B* D.) line *D*



- 4.) Alisa has $5\frac{1}{2}$ feet of red rope. She also has $\frac{14}{2}$ feet of blue rope.

What comparison can be made between the red and the blue rope?

- F.) $5\frac{1}{2} < \frac{14}{2}$ G.) $5\frac{1}{2} = \frac{14}{2}$ H.) $5\frac{1}{2} > \frac{14}{2}$ J.) None of these.

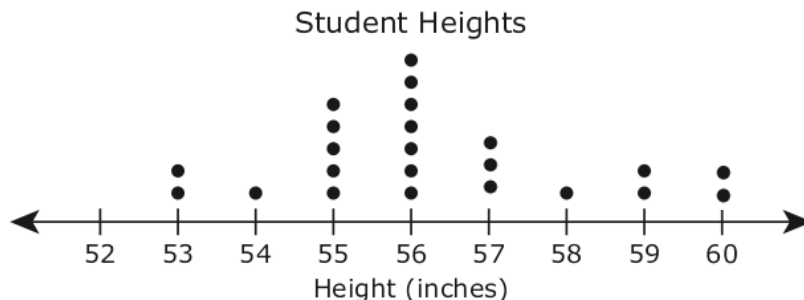
- 5.) What fraction is equivalent to the decimal 1.8?

- A.) $\frac{10}{18}$ B.) $\frac{18}{2}$ C.) $\frac{18}{12}$ D.) $\frac{18}{10}$

- 6.) The table shows the heights of students in Ms. Garcia's 5th grade classroom.

A dot plot was constructed to show this data. But, **there is a mistake on the dot plot.**

| Student Heights | |
|-----------------|--------------------|
| Height (inches) | Number of Students |
| 53 | |
| 54 | |
| 55 | |
| 56 | |
| 57 | |
| 58 | |
| 59 | |



At what height is the mistake on the dot plot? _____ inches

- 7.) Vanessa has 3 gallons and 2 quarts of water. Jenny has 2 gallons and 3 quarts of water. What is the sum of water that the girls have in gallons and quarts?

- F.) 5 gallons and 4 quarts G.) 6 gallons and 1 quart H.) 6 quarts J.) 7 quarts

Name: _____

4th Grade Math **STAAR Warm-up Number 38**

- 1.) Mr. Phillips' garden is 32 feet long and 28 feet wide. What is the area of Mr. Phillips' garden?

A.) 886 square feet B.) 896 square feet C.) 786 square feet D.) 566 square feet

- 2.) The model to the right represents one whole.



Model W is shaded to represent a number greater than one.



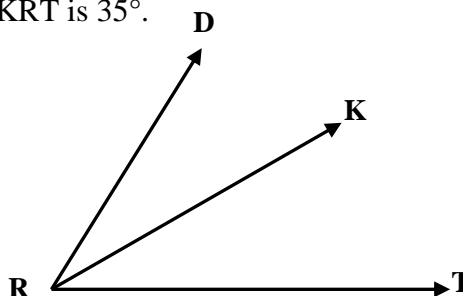
Which expression **cannot** be used to represent this number for Model W?

F.) $\frac{4}{5} + \frac{4}{5} + \frac{4}{5}$ G.) $\frac{5}{5} + \frac{5}{5} + \frac{2}{5}$ H.) $\frac{5}{5} + \frac{5}{5} + \frac{1}{5} + \frac{1}{5}$ J.) $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

- 3.) The measure of angle DRT is 75° . The angle of KRT is 35° .

What is the measure of angle DRK?

A.) 110° C.) 40°
B.) 45° D.) Not here



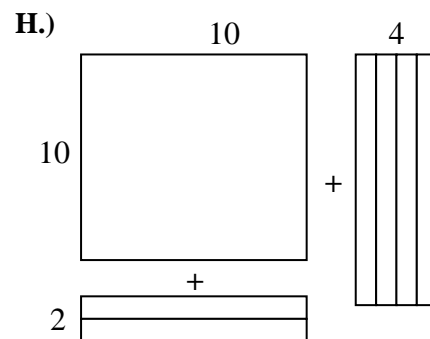
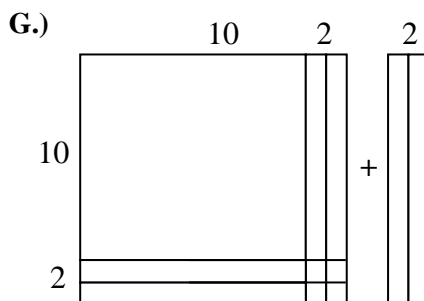
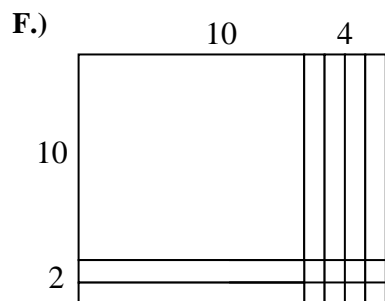
- 4.) What expression has a quotient of about 8?

F.) $43 \div 7 = ?$ G.) $25 \div 3 = ?$ H.) $55 \div 5 = ?$ J.) $63 \div 5 = ?$

- 5.) Write the number 46,094.03 in expanded notation.

A.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 100) + (4 \times 1) + (3 \times 0.01)$
B.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 10) + (4 \times 1) + (3 \times 0.1)$
C.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 10) + (4 \times 1) + (3 \times 0.1)$
D.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 10) + (4 \times 1) + (3 \times 0.01)$

- 6.) Which model represents 12×14 ?



- 7.) Find the difference and sum of 4,571.15 and 209.8

Difference: _____

Sum: _____

Name: _____

- 1.) The model to the right represents one whole. 

Model C is shaded to represent a number greater than one.

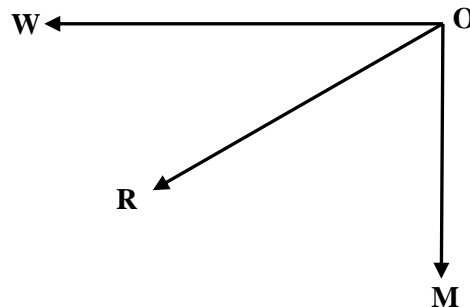
Model C:  +  + 

Which expression **cannot** be used to represent this number for Model C?

- F.) $\frac{2}{3} + \frac{2}{3} + \frac{2}{3}$ G.) $\frac{3}{3} + \frac{3}{3}$ H.) $\frac{1}{3} + \frac{2}{3} + \frac{1}{3} + \frac{1}{3}$ J.) $\frac{2}{3} + \frac{1}{3} + \frac{3}{3}$

- 2.) The measure of angle WOM is 90°. The angle of WOR is 40°.

What is the measure of angle ROM?



- A.) 130° C.) 130°
B.) 50° D.) 60°

- 3.) What expression has a quotient of about 4?

- F.) $41 \div 10 = ?$ G.) $28 \div 3 = ?$ H.) $51 \div 4 = ?$ J.) $62 \div 8 = ?$

- 4.) Write the number 89,020.17 in expanded notation.

- A.) $(8 \times 10,000) + (9 \times 1,000) + (2 \times 100) + (1 \times 0.1) + (7 \times 0.01)$
B.) $(8 \times 10,000) + (9 \times 1,000) + (2 \times 10) + (1 \times 1) + (7 \times 0.1)$
C.) $(8 \times 10,000) + (9 \times 1,000) + (2 \times 10) + (1 \times 0.1) + (7 \times 0.01)$
D.) $(8 \times 10,000) + (9 \times 100) + (2 \times 10) + (1 \times 0.1) + (7 \times 0.01)$

- 5.) Jessica draws two lines – Line **A** and Line **B**. Measure the difference in the two lines to the nearest centimeter using the ruler that the teacher provides you. Write your answer on the line provided.

Line **A** _____

Line **B** _____

Answer: _____ cm.

- 6.) The table to the right shows the number of inches and equivalent feet.

Ronald has a long rope that is 96 inches long.

How many equivalent feet is the length of Ronald's rope?

- F.) 6 feet H.) 8 feet
G.) 7 feet J.) 9 feet

Inches-to-Feet Conversion

| Inches | Feet |
|--------|------|
| 24 | 2 |
| 36 | 3 |
| 48 | 4 |
| 60 | 5 |

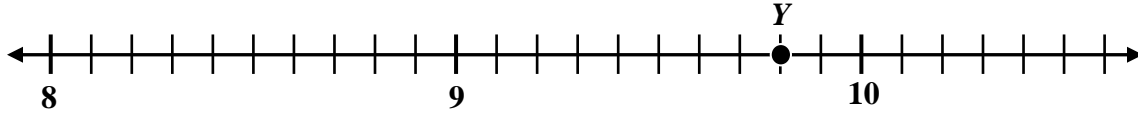
- 7.) What is the sum and difference between 5,904.08 and 319.3?

Sum: _____ Difference: _____

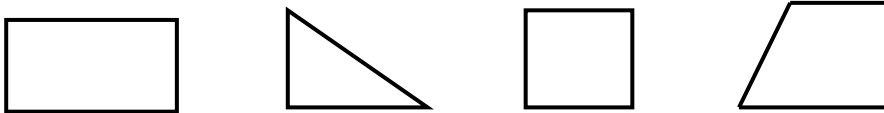
Name: _____

- 1.) A television show is $\frac{8}{15}$ completed. About how much of the TV show is left to watch?
- A.) $\frac{8}{9}$ B.) $\frac{15}{8}$ C.) $\frac{4}{8}$ D.) $\frac{3}{4}$

- 2.) The number line shows point *Y*. What number does Point *Y* represent?



- F.) 8.08 G.) 9.08 H.) 9.8 J.) 9.7
- 3.) The polygons below all have characteristics in common.



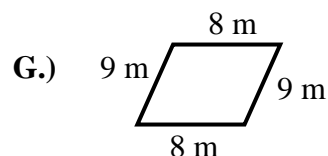
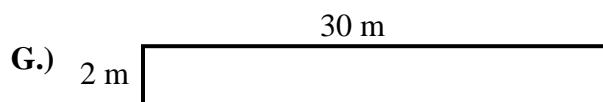
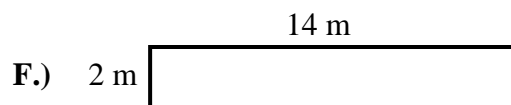
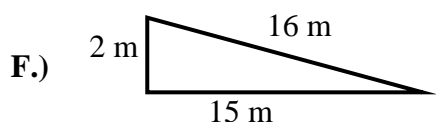
- A.) They all have an acute angle. C.) They all have at least two sides that are perpendicular.
- B.) They all have a right angle. D.) Both B.) and C.) are correct.
- 4.) Which fraction comparison is true?
- F.) $\frac{1}{2} > \frac{3}{6}$ H.) $\frac{4}{8} > \frac{3}{6}$
- G.) $\frac{5}{6} < \frac{1}{2}$ J.) $\frac{4}{10} < \frac{1}{2}$

- 5.) The table shows ‘INPUT’ to ‘OUTPUT.’”

Which rule shows how to find the OUTPUT when given the INPUT?

| INPUT | OUTPUT |
|-------|--------|
| 5 | 26 |
| 7 | 30 |
| 8 | 31 |
| 11 | 34 |
| 12 | 35 |

- A.) Subtract 23 C.) Multiply 23
- B.) Add 23 D.) Divide 23
- 6.) Which shape below has a perimeter of 32 meters?



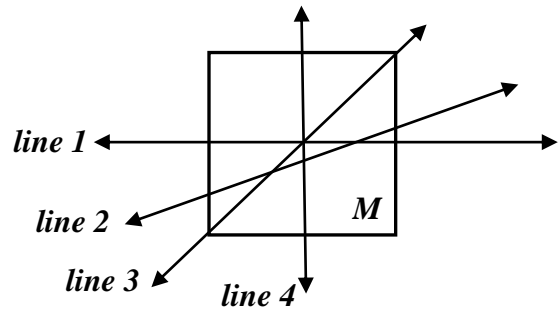
Name: _____

4th Grade Math STAAR Warm-up Number 42

- 1.) A figure shows lines passing through square M. Three of the lines are lines of symmetry.

Which line is NOT a line of symmetry?

Write answer: _____



- 2.) Richard dug a hole. He stacked $5 \frac{5}{6}$ cubic feet of dirt next to his hole. Jennifer also did some digging. She put $8 \frac{2}{6}$ cubic feet of dirt next to the hole she dug. What expression is one way to find the the correct sum of dirt that both Richard and Jennifer dug?

A.) $8 \frac{2}{6} - 5 \frac{5}{6} = ?$ B.) $\frac{50}{6} - \frac{35}{6} = ?$ C.) $8 \frac{2}{6} + 5 \frac{5}{6} = ?$ D.) Not here

- 3.) Find the sum of the mixed numbers.

$$9 \frac{2}{8} + 5 \frac{3}{8} = 9 + 5 + \frac{2}{8} + \frac{3}{8} = \underline{\hspace{2cm}}$$

- 4.) Find the sum of the mixed numbers by separating each mixed number into a whole number and proper fraction (as was done in problem 3 above).

$$3 \frac{1}{4} + 6 \frac{2}{4} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

- 5.) The population of Bakersfield, California is given by expanded notation below:

$$(4 \times 100,000) + (7 \times 1,000) + (6 \times 100) + (5 \times 1)$$

What is this number written in standard form? Write answer here: _____

- 6.) The list of times shows the number of people that attended a 3-hour concert from 7 PM to 10 PM.

- At 7 PM, 389 people showed up.
- At 8 PM, 571 people showed up, but 265 people left.
- At 9 PM, 247 people showed up, but 109 people left.

How many people were at the concert at 10 PM?

F.) 843 people G.) 833 people H.) 678 people J.) 679 people

- 7.) Which fraction below correctly fits in the \square to make the comparison true. $\frac{5}{12} > \square$

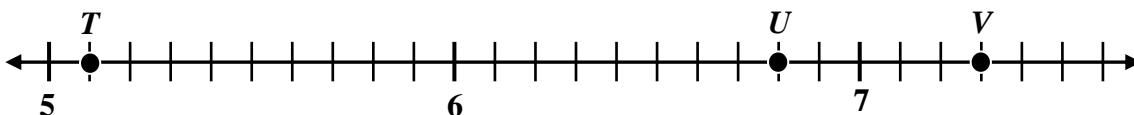
A.) $\frac{3}{5}$ B.) $\frac{6}{9}$ C.) $\frac{2}{8}$ D.) $\frac{5}{8}$

- 8.) Write the decimals on the number line on the lines for T, U and V.

T = _____

U = _____

V = _____



Name: _____

4th Grade Math **STAAR Warm-up Number 43**

- 1.) Which fraction and decimal shown below are NOT equivalent?

A.) $15.75 = 15 \frac{75}{100}$ B.) $12.06 = 12 \frac{6}{10}$ C.) $23.90 = 23 \frac{9}{10}$ D.) $6.09 = 6 \frac{9}{100}$

- 2.) The Smith Index Store sells pens for 80 cents each and erasers for 35 cents apiece. Sharia purchases 2 pens and 1 eraser. Sharia has 130 cents in her pocket.

How much more money does Sharia need to purchase the 2 pens and 1 eraser?

- F.) 55 cents G.) 115 cents H.) 65 cents J.) 245 cents

- 3.) James is looking at a 4 sided figure that has two sides parallel to one another and the other two sides are not parallel. None of the sides are perpendicular. What figure is James looking at?

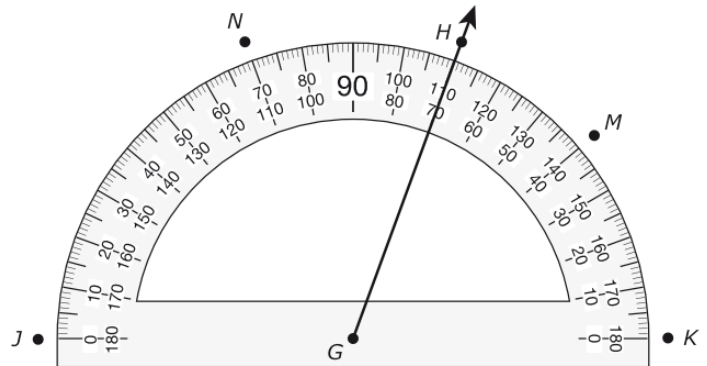
- A.) parallelogram B.) trapezoid C.) square D.) rhombus

- 4.) Jeffery has 2,408 dollars. If Jeffery has only \$2 dollar bills, how many two-dollar bills does he have?

_____ two-dollar bills

- 5.) Ray GH has been drawn on the protractor.

To construct an angle that has a measure of 40° , another ray can be drawn that starts at point G and passes through what point?

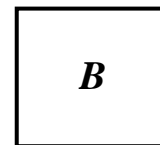


- F.) Point J G.) Point N H.) Point M J.) Point K

- 6.) A square (**B**) room has a side that is equal to 30 feet. What is the perimeter (**P**) and area (**A**) of the room?

A.) **P** = 90 feet; **A** = 90 sq. ft. C.) **P** = 120 feet; **A** = 900 sq. ft.

B.) **P** = 60 feet; **A** = 900 sq. ft. D.) **P** = 120 feet; **A** = 90 sq. ft.



30 feet

- 7.) Andreas has 14 packages of straws. There are 25 straws in each package.

If Andreas puts 7 straws in a bag, how many bags will he need?

- F.) 25 bags G.) 7 bags H.) 40 bags J.) 50 bags

- 8.) Ms. Paredes buys used doll clothes and sells them. She bought a small jacket and a pair of pants for a total of 18 dollars.

- She sold the jacket for 30 dollars.
- She sold the pants for 15 dollars.

Ms. Paredes' total **profit** she made from selling the jacket and pants is _____ dollars.

- 9.) Does a triangle ever have parallel sides?

Yes or No (*Circle your answer*)

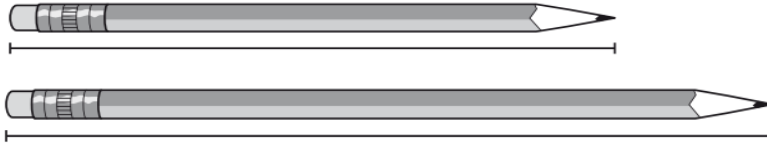
- 10.) $33 \div 4$ has a quotient close to what number?

Write your quotient on the line: _____

Name: _____

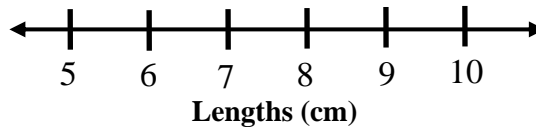
- 1.) The data list shows the measurements of 10 pencil lengths in centimeters. There are 2 measurements missing. Use the ruler provided by your teacher and measure the two pencils below to the nearest centimeter. Write the two pencil measurements in the boxes below.

6, 5, 7, 8, 5, 6, 10, 5, ,

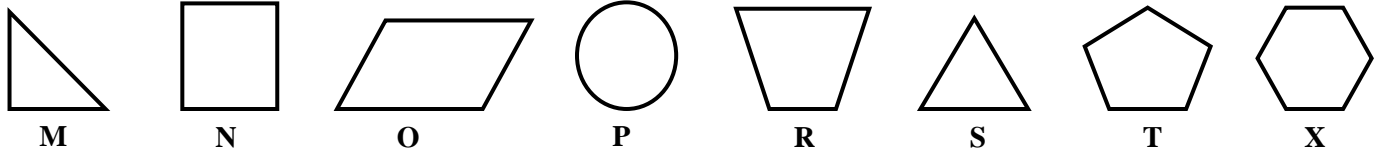


Plot the 10 measurements on the dot plot below.

Pencil Lengths



- 2.) A group of figures is shown below. Use the figures' letters to answer the questions below.



Question **2A.)** Which figures above have at least one right angle? _____

Question **2B.)** Which figures above have at least one set of parallel lines? _____

Question **2C.)** Which figures above have at least one obtuse angle? _____

Question **2D.)** Which figures above have at least one acute angle? _____

Question **2E.)** Which figures above have at least one set of perpendicular lines? _____

- 3.) The table to the right is called an Input-Output Math Machine.

What is the rule to find the output when the input number is given?

A.) + 9 C.) ÷ 2

B.) x 1.56 D.) - 9

- 4.) Victor threw a baseball 35.02 meters. Which fraction below is equivalent?

F.) $35 \frac{20}{100}$ H.) $35 \frac{2}{100}$

G.) $35 \frac{2}{10}$ J.) $35 \frac{20}{10}$

Math Machine

| Input | Output |
|-------|--------|
| 27 | 18 |
| 28 | 19 |
| 30 | 21 |
| 34 | 25 |

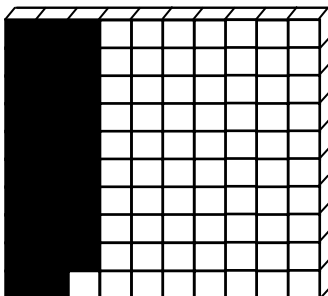
Name: _____

4th Grade Math **STAAR Warm-up Number 45**

- 1.) James owns 1,350 Pokeman collectable cards. He decides to give his entire collection to 10 friends. Each friend will receive an equal number of cards. How many cards did the 7th friend get?

A.) 13,500 cards B.) 1,350 cards C.) 135 cards D.) Not here

- 2.) The model shows a decimal that is less than 1 whole. What value is represented by the shaded portion?



F.) thirty-nine tenths
G.) thirty-nine hundredths
H.) twenty-nine tenths
J.) twenty-nine hundredths

- 3.) What is the value of 451,292.47 when the number is rounded to the nearest **ten-thousand** and **tenth**?

A.) 500,000 and 451,292.6 C.) 450,000 and 451,292.5
B.) 400,000 and 451,292.6 D.) 440,000 and 451,292.5

- 4.) Johnny rides the school bus. The bus holds 72 students. About how long is a school bus in feet?

F.) 10 feet G.) 13 feet H.) 35 feet J.) 100 feet

- 5.) Jill purchased 3 toys that each cost \$ 4.81. Her best friend, Jack, bought a magazine for \$6.05. About how much money did Jack and Jill spend together before they walked up the hill? (*Estimate to the nearest dollar*)

A.) \$ 15.00 B.) \$ 21.00 C.) \$ 6.00 D.) \$ 25.00

- 6.) The Sacramento Kings basketball team played 5 games against the Los Angeles Lakers. The games were sold out and all tickets were purchased for each game. If 5,280 tickets were purchased for each game, what was the total number of people who attended all 5 games?

F.) 1,056 people G.) 21,120 people H.) 26,400 people J.) 31,680 people

- 7.) Figure out Betty's number. She chose a '5' in the hundreds place, and a '3' in the hundredths place. She also selected a 7 in the hundred-thousands place. What number below is Betty's number?

A.) 4,728,309.35 B.) 9,708,501.23 C.) 1,726,309.15 D.) Not here

- 8.) Mitch ran 7 miles on a Saturday morning. The shaded portion shows how far he was able to run. What fraction of the 7 miles did Mitch **NOT** run?



F.) $\frac{2}{7}$ G.) $\frac{5}{7}$ H.) $\frac{7}{7}$ J.) $\frac{7}{2}$

- 9.) About what is the quotient of $49 \div 6$? The quotient is about: _____

Name: _____

4th Grade Math **STAAR Warm-up Number 46**

- 1.) Mr. Blosscock's garden has dimensions of 20 feet by 15 feet. What is his garden's perimeter?

Perimeter of garden = _____ feet

- 2.) There are 15 rows of cans on a supermarket's shelf. Each row contains 8 cans. Ashley takes the cans off the shelf and puts them in 3 boxes. There are an equal number of cans in each box. How many cans are in each box?

A.) 40 cans B.) 90 cans C.) 30 cans D.) 120 cans

- 3.) A customer purchased 4 pounds and 9 ounces of ground beef. The customer also purchased 2 pounds and 8 ounces of cheese to make queso. What is the total amount of weight in pounds and ounces that the customer purchased at the store?

F.) 12 pounds 10 ounces G.) 7 pounds 1 ounce H.) 7 pounds 9 ounces J.) 6 pounds 12 ounces

- 4.) Chris' teacher wrote 4 fraction comparisons on the board. Those comparisons are given in the table. What fraction comparisons are correct?

Table of Fraction Comparisons

A.) Only M

B.) Only M & P

C.) Only O

D.) Only M & O

| M | N | O | P |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| $\frac{2}{3} > \frac{1}{3}$ | $\frac{4}{8} > \frac{5}{3}$ | $\frac{6}{8} > \frac{3}{6}$ | $\frac{1}{2} > \frac{4}{8}$ |

- 5.) Phillip won the 100-meter race by thirty-five hundredths of a second. What digit is in the tenths place?

F.) 0.5 G.) 0.3 H.) 0.05 J.) 0.03

- 6.) Yessica ordered 38 boxes of art supplies for her church. Each box had 100 packages of colored chalk. What was the total number of packages of colored chalk that Yessica ordered?

Colored Chalk packages = _____

- 7.) Kim's mother requires her daughter to read a chapter book for at least 45 minutes each evening. If Kim begins reading at 6:20 PM, what time is she allowed to stop reading?

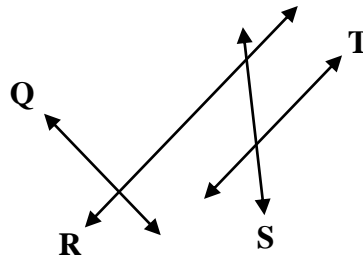
A.) 6:55 PM B.) 7:05 PM C.) 7:15 PM D.) Not here

- 8.) Identify lines that appear to be perpendicular?

_____ and _____ _____ and _____

- 9.) What two lines appear to be parallel?

_____ and _____



- 10.) Mr. Smith's children were playing with a large ball. He decided to have a contest to determine which of his 2 children could throw a ball the furthest. Johnathan threw the ball 4.05 meters. Ralph threw the ball 2.9 meters. Calculate the sum and difference of the distances his children threw the ball.

Sum = _____

Difference = _____

Name: _____

1.) Priscilla made the following batch of cookies.

- $\frac{3}{8}$ of the cookies were peanut butter.
- $\frac{2}{8}$ of the cookies were oatmeal.
- The rest of the cookies were sugar cookies.

What statement is true concerning the cookies that the baker made?

- A.) $\frac{2}{8}$ of the cookies were sugar cookies. C.) over $\frac{1}{2}$ of the cookies were sugar cookies.
- B.) $\frac{1}{8}$ of the cookies were sugar cookies. D.) less than $\frac{1}{2}$ of the cookies were sugar cookies.

2.) Brett's Auto Parts Store pays its expenses monthly. The table shows the business' monthly expenditures over the last three months.

a.) What payments are variable expenses:

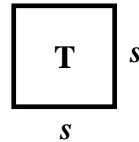
b.) What payments are fixed expenses:

Brett's Auto Parts Store Month Expenses

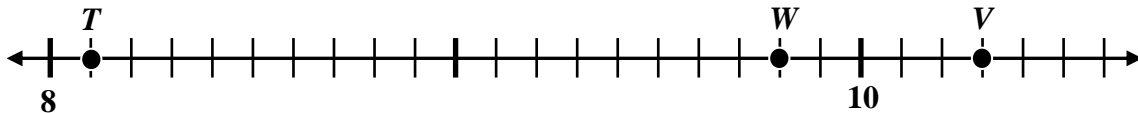
| Payments | May | June | July |
|-------------|-----------|-----------|-----------|
| Rent | \$ 1,000 | \$ 1,000 | \$ 1,000 |
| Water | \$ 414.12 | \$ 201.67 | \$ 308.02 |
| Electricity | \$ 56.45 | \$ 109.54 | \$ 104.49 |
| Telephone | \$ 150.04 | \$ 150.04 | \$ 150.04 |

3.) A square **T** has a perimeter of 32 feet and an area of 64 feet squared. Find the side 's' of the square.

s = _____ feet



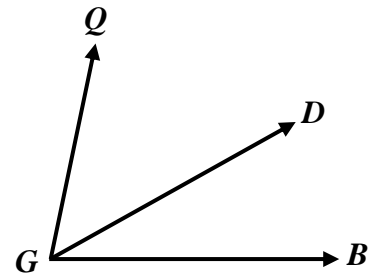
4.) Point **W** represents what point on the number line?



- F.) 8.18 G.) 8.9 H.) 9.8 J.) Not here

5.) Angle QGD measures 42°. Angle QGB measures 85°.

What is the measure of Angle DGB? _____°



6.) Write the **decimal** equivalent of each fraction.

- a.) $\frac{1}{2}$ = _____ b.) $\frac{4}{4}$ = _____ c.) $\frac{63}{100}$ = _____ d.) $\frac{13}{10}$ = _____

Name: _____

4th Grade Math **STAAR Warm-up Number 48**

- 1.) A rectangle has a perimeter of 40 meters and an area of 75 meters squared. Which rectangle below represents this model?

A.) $\begin{array}{|c|} \hline 25 \\ \hline \end{array} 15$ B.) $\begin{array}{|c|} \hline 15 \\ \hline \end{array} 5$ C.) $\begin{array}{|c|} \hline 18 \\ \hline \end{array} 2$ D.) $\begin{array}{|c|} \hline 35 \\ \hline \end{array} 5$

- 2.) The list shows the days each month that Betty exercised at the gym over the last 12 months.

5, 8, 9, 12, 9, 15, 11, 3, 9, 10, 14, 8

Which row of the frequency table is incorrect?

- F.) The row showing 0 to 5.
G.) The row showing 6 to 10.
H.) The row showing 11 to 15.
J.) All rows are correct.

Betty's Gym Days

| Gym Days | Months |
|----------|--------|
| 0 to 5 | |
| 6 to 10 | |
| 11 to 15 | |

- 3.) 4 friends went on a hike. They all planned to walk the same distance – one mile. The table below shows the fraction that each of the boys was able to hike.

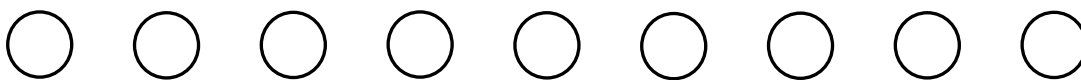
Which of these fractions is greater than $\frac{3}{4}$?

- A.) Only Billy's and Franco's
B.) Only Billy's and Zachary's
C.) Only Billy's and James'
D.) Only Franco's and Zachary's

Fraction of a mile

| Boy's Name | Distance Hiked |
|------------|----------------|
| Billy | $\frac{7}{8}$ |
| James | $\frac{8}{10}$ |
| Franco | $\frac{9}{16}$ |
| Zachary | $\frac{5}{12}$ |

- 4.) Shade the circle model to represent $\frac{7}{9}$.



What is one way that this model **cannot** be represented?

- F.) $\frac{4}{9} + \frac{4}{9} - \frac{1}{9} = ?$ H.) $\frac{2}{9} + \frac{7}{9} - \frac{3}{9} = ?$
G.) $\frac{2}{9} + \frac{4}{9} + \frac{1}{9} = ?$ J.) $\frac{1}{9} + \frac{3}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} = ?$

- 5.) Jack drew 4 quadrilaterals on his computer.



What statement is accurate in classifying the quadrilaterals?

- A.) Each figure has one right angle. C.) Each figure has one set of perpendicular sides.
B.) Each figure has at least one acute angle. D.) Each figure has at least one set of parallel sides.

Name: _____

4th Grade Math **STAAR Warm-up Number 49**

- 1.) San Jose High School’s football team beat Piedmont High School by 15 points on Friday night. Last year, San Jose scored 3 times that number of points on Piedmont as they did on Friday night. What two equations provide the total points (*P*) that San Jose High School scored on Piedmont in the last two years?

A.) $3 \times 15 = 45$
 $45 + 15 = P$

B.) $3 \times 10 = 30$
 $30 + 15 = P$

C.) $45 \div 3 = 15$
 $15 + 15 = P$

D.) $15 - 3 = 12$
 $12 + 15 = P$

- 2.) Which of these statements best explains what a bank can do for its customers?

- I.) Loan money to its customers to buy cars, boats and houses.
 II.) Mail letters for its customers so they do not have to drive to the post office.
 III.) Provide their customers checking and savings accounts.
 IV.) Provide advice on how to raise their customers’ children to be good citizens.

F.) I and II only.

G.) I, II, and III only.

H.) IV only.

J.) I and III only.

- 3.) Miss Cantu’s and Miss Roberts’ class are going on a field trip. There are 24 students in Ms. Cantu’s class and 25 students in Ms. Roberts. If 6 students can ride in each van, what is the least number of vans that are needed to carry all the children to the field trip?

F.) 49 vans

B.) 7 vans

C.) 8 vans

D.) 9 vans

- 4.) Draw a quadrilateral that has TWO right angles, ONE acute angle and ONE obtuse angle.

- 5.) The list of data below shows the distances (in feet) that Carl threw the shot-put at Wednesday’s practice.

31 45 38 51 40 42 48 37 39 42 54 50

The stem and leaf plot also shows the distances in feet that Carl threw the shot put.

Complete the stem and leaf plot by filling in each box on the plot to the right.

- 6.) Pedro wrote a number with a ‘3’ in the hundredths place. He also wrote a ‘2’ in the millions place and a ‘0’ in the thousands place.

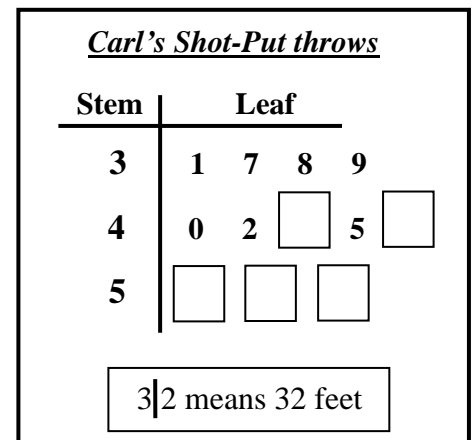
What number below did Pedro write?

F.) 12,402,914.23

H.) 20,412,914.23

G.) 12,480,914.23

J.) 2,410,314.69



- 7.) There are 4 fourth grade classes at Hill Elementary. Each class made a paper project that required each student to use 5 pieces of paper. If there are 25 students in each class, how many pieces of paper did all the students use to create their paper project?

_____ pieces of paper used

- 8.) Ercimin has 20 photos on her phone. Julie has 2 times as many photos as Ercimin on her phone. What is the total number of photos that the two girls have on their phones?

_____ photos

Name: _____

4th Grade Math STAAR Warm-up Number 50

- 1.) Which fraction is equivalent to 23.04?

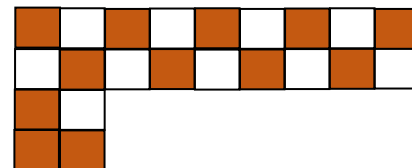
A.) 2.34 B.) $23 \frac{4}{100}$ C.) $23 \frac{4}{10}$ D.) $23 \frac{4}{1,000}$

- 2.) A rectangular playground has the following dimensions: Length = 40 feet Width = 15 feet

a.) Compute the playground's perimeter = _____ feet

b.) Compute the playground's area = _____ sq. feet

- 3.) An "L-Shaped" rectangular floor has the tile pattern shown to the right.



Calculate the fraction of shaded tiles on this floor.

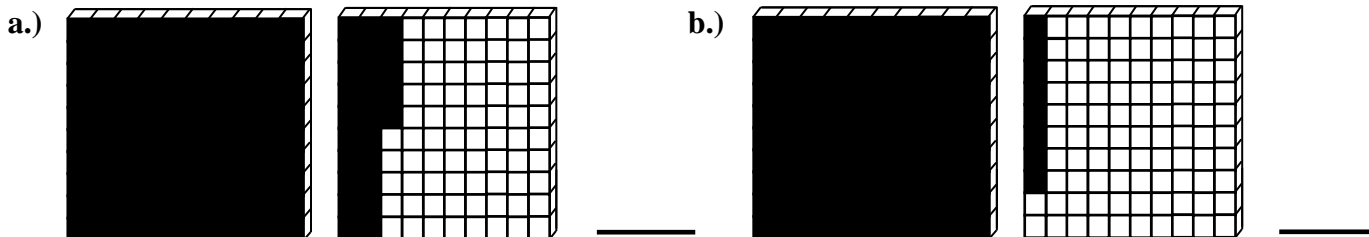
F.) $\frac{5}{22} + \frac{4}{22} + \frac{1}{22} + \frac{2}{22} = ?$

H.) $\frac{8}{22} + \frac{7}{22} + \frac{5}{22} + \frac{2}{22} = ?$

G.) $\frac{5}{22} - \frac{4}{22} + \frac{1}{22} + \frac{2}{22} = ?$

J.) $\frac{9}{22} - \frac{7}{22} - \frac{1}{22} + \frac{1}{22} = ?$

- 4.) Write the decimal represented by each model on the line provided.



- 5.) Jeff poured 5 quarts and 2 cups of water. His friend, Craig poured 2 quarts and 3 cups of water. What was the sum of liquid poured by both Jeff and Craig in quarts and cups?

A.) 7 quarts and 2 cups B.) 8 quarts and 1 cup C.) 8 quarts and 2 cups D.) 8 quarts

- 6.) Mr. Johnson drove his car 89 miles on Monday, 105 miles on Tuesday, and 62 miles of Wednesday. About what is the total amount of miles that Mr. Johnson drove over the three days?

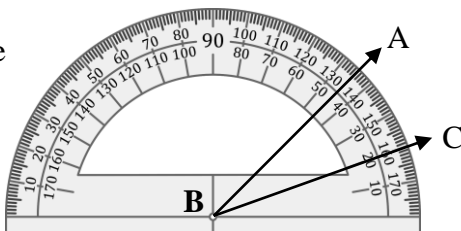
F.) 260 miles G.) 160 miles H.) 240 miles J.) 270 miles

- 7.) Which fraction comparison is correct?

A.) $\frac{4}{12} > \frac{5}{12}$ B.) $\frac{7}{8} < \frac{5}{12}$ C.) $\frac{3}{4} > \frac{8}{16}$ D.) $\frac{5}{10} < \frac{9}{20}$

- 8.) What is the measure of angle ABC?

_____ °



- 9.) Priscilla's year-old baby girl, Perla, walked 13 feet without falling to the ground. How many inches is 13 feet?

_____ inches

4th Grade STAAR
Preps

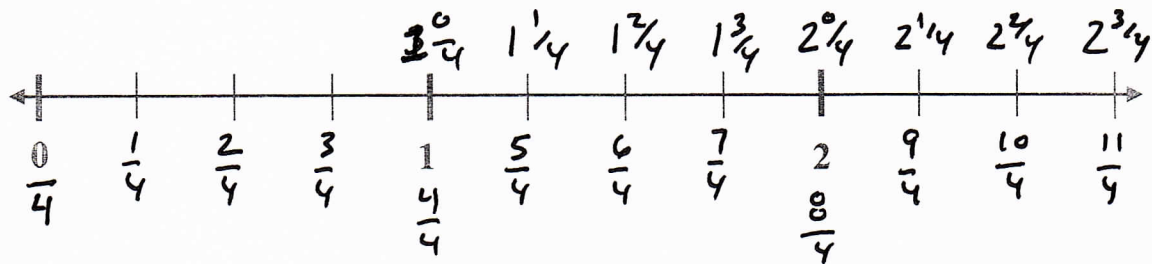
SOLUTIONS
for

50 Practice Pages

Name: Solutions

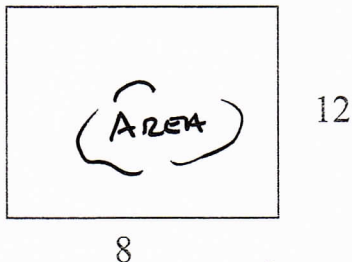
4th Grade Math STAAR Warm-up Number 1

- 1.) Label the number line...all proper and improper fractions and mixed numbers.



- 2.) Calculate the area in part a.) and perimeter in part b.) in the problems below.

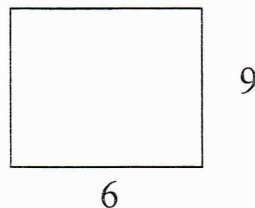
a.)



- a.) 20
b.) 40
c.) 96
d.) 120

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$$

b.)



- a.) 15
b.) 18
c.) 30
d.) 54

$$\begin{array}{l} (9+6) \times 2 = 30 \\ 15 \times 2 = 30 \end{array}$$

- 3.) Find the number in each box or triangle.

$$\boxed{12} \times \triangle 4 = 48$$

$$\boxed{12} - 8 = \triangle 4$$

a.) square = 8
triangle = 6

b.) square = 4
triangle = 12

c.) square = 12
triangle = 4

d.) square = 24
triangle = 2

- 4.) Hector spent \$2.39 at the store. John and Adam each spent \$4.00 at the movie theater. Hector's favorite color is red. What was the sum of the amount of money all three boys spent?

a.) \$10.39

b.) \$6.39

c.) \$1.61

d.) Not Here

$$\begin{array}{r} 4.00 \\ 4.00 \\ 2.39 \\ \hline 10.39 \end{array}$$

- 5.) What is 20,954.62 in expanded place value form?

a.) $20,000 + 900 + 50 + 4 + 0.6 + 0.02$

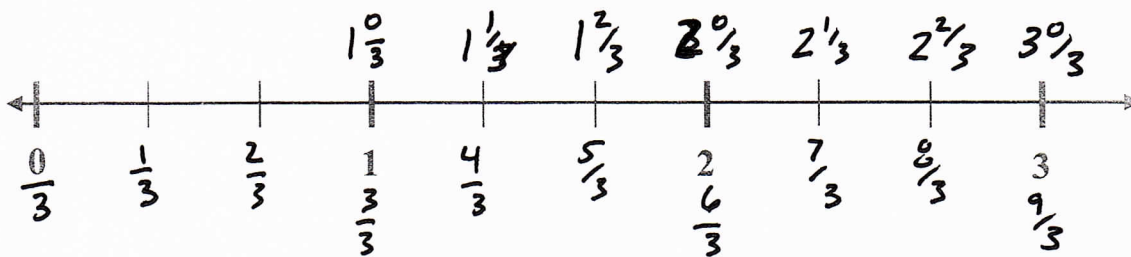
b.) $(2 \times 10,000) + (0 \times 1,000) + (9 \times 100) + (5 \times 10) + (4 \times 1) + (6 \times 0.1) + (2 \times 0.01)$

c.) $(2 \times 10,000) + (0 \times 1,000) + (9 \times 100) + (5 \times 10) + (4 \times 1) + (6 \times 1/10) + (2 \times 1/100)$

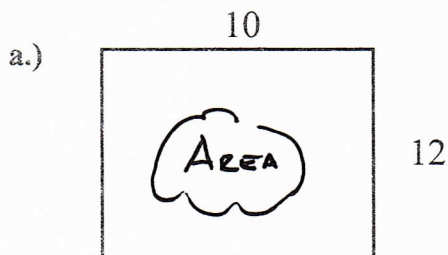
d.) $20,000 + 0 + 900 + 50 + 4 + 6/10 + 2/100$

e.) All of the answer choices are correct.

- 1.) Label the number line...all
- proper and improper fractions
- and
- mixed numbers
- .

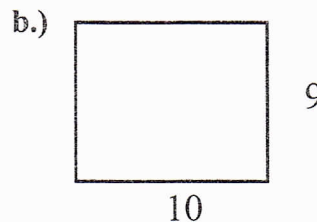


- 2.) Calculate the
- area
- for part a.) and
- perimeter
- for part b.) in the problems below.



- a.) 120
b.) 140
c.) 44
d.) 22

$$\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$$



- a.) 19
b.) 38
c.) 90
d.) 54

$$\begin{array}{l} (10 + 9) \times 2 = \\ 19 \times 2 = 38 \end{array}$$

- 3.) Find the number in each box or triangle.

$$\boxed{9} \times \triangle_{12} = 108$$

$$\boxed{9} + 3 = \triangle_{12}$$

- a.) square = 9 triangle = 12 b.) square = 6 triangle = 9 c.) square = 12 triangle = 15 d.) square = 20 triangle = 23

- 4.) Jessica spent \$3.25 on a gift for her teacher, and \$2.09 on her principal. If she paid for these gifts with a 10 dollar bill, how much change did she receive?

a.) \$6.75

b.) \$1.16

c.) \$14.66

d.) \$4.66

$$\begin{array}{r} 3.25 \\ 2.09 \\ \hline 5.34 \end{array}$$

$$\begin{array}{r} 10.00 \\ - 5.34 \\ \hline 4.66 \end{array}$$

- 5.) What is 432,904.8 in expanded place value form?

a.) 400,000 + 30,000 + 2,000 + 900 + 0 + 4 + 0.8

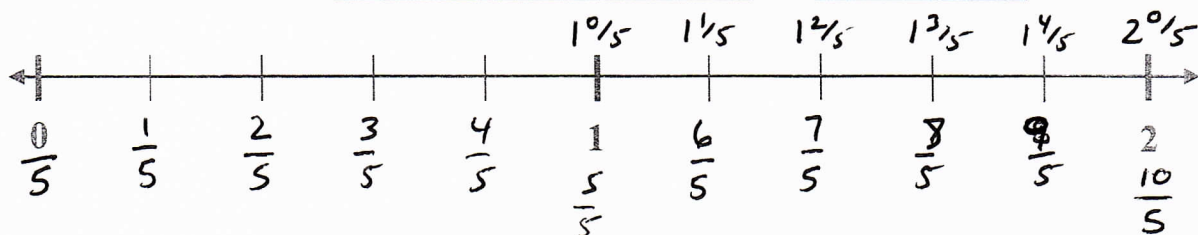
b.) (4 x 100,000) + (3 x 10,000) + (2 x 1,000) + (9 x 100) + (0 x 10) + (4 x 1) + (8 x 0.1)

c.) (4 x 100,000) + (3 x 10,000) + (2 x 1,000) + (9 x 100) + (8 x 1/100)

d.) 400,000 + 30,000 + 2,000 + 900 + 4 + 8/100

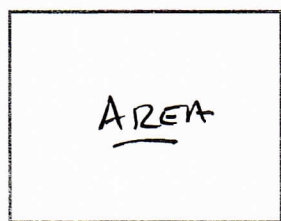
e.) Only a.) and b.) answer choices are correct.

- 1.) Label the number line...all
- proper and improper fractions
- and
- mixed numbers
- .



- 2.) Calculate the
- area
- for part a.) and
- perimeter
- for part b.) in the problems below.

a.)



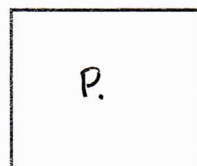
20

15

- a.) 32
b.) 64
c.) 300
d.) 70

$$\begin{array}{r} 20 \\ \times 15 \\ \hline 300 \end{array}$$

b.)



10

17

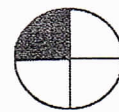
- a.) 29
b.) 54
c.) 170
d.) 204

$$\begin{aligned} (10 + 17) \times 2 &= \\ 27 \times 2 &= 54 \end{aligned}$$

- 3.) Order the decimals from
- Greatest to Least
- on the line provided below.

5 3 2 1 6 4
0.96 0.90 0.50 0.04 1.09 0.87
0.04, 0.5, 0.9, 0.87, 0.96, 1.09

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$4 \frac{1}{4} = \frac{17}{4}$$

- a.) 22/4 or 3 1/4 b.) 13/4 or 3 1/4 c.) 17/4 or 4 1/4 d.) 19/4 or 4 3/4

- 5.) Find the difference of 3.5 and 1.04?

- a.) 4.54 b.) 6.04 c.) 2.46 d.) 1.66

$$\begin{array}{r} 3.50 \\ - 1.04 \\ \hline 2.46 \end{array}$$

- 6.) Destiny worked the following division problem correctly:
- $32.46 \div 3 = 10.82$

Round the quotient to the nearest whole number.

- a.) 10.8 b.) 32 c.) 10 d.) 11

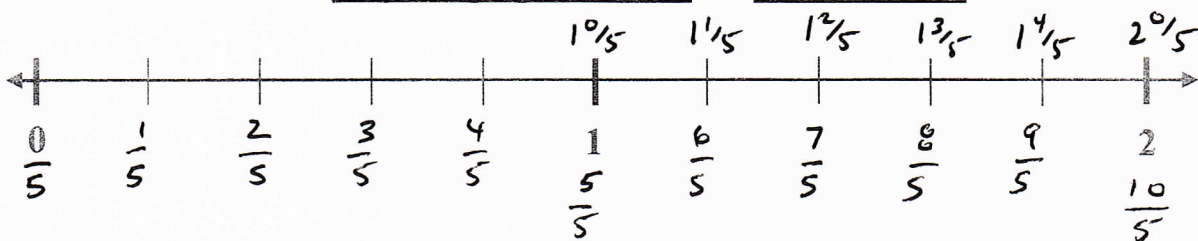
- 7.) Finish expanding the following number to the correct place value expressions:

$$45,908.7 = (4 \times 10,000) + (5 \times 1,000) + (9 \times 100) + (8 \times 10) + (7 \times \frac{1}{10})$$

Name: SOLUTIONS

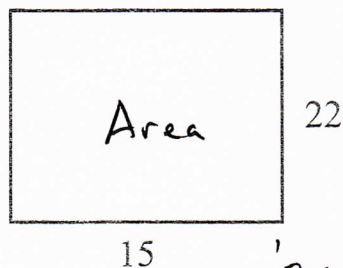
4th Grade Math STAAR Warm-up Number 4

- 1.) Label the number line...all proper improper fractions and mixed numbers.

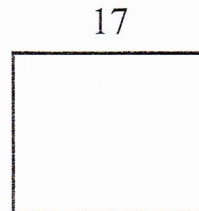


- 2.) Calculate the area for part a.) and perimeter for part b.) in the problems below.

a.)



b.)



$$(12 + 17) \times 2 = 29 \times 2 = 58$$

- a.) 330
b.) 64
c.) 240
d.) 74

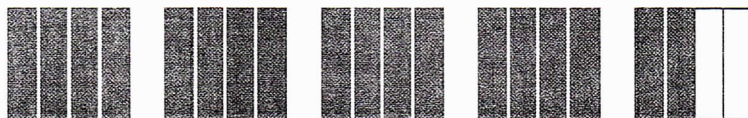
$$\begin{array}{r} 22 \\ \times 15 \\ \hline 110 \\ 22 \\ \hline 330 \end{array}$$

- a.) 29
b.) 58
c.) 114
d.) 204

- 3.) Order the decimals from Least to Greatest on the line provided below.

0.08 0.9 0.94 0.01 1.07 0.8

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$4 \frac{2}{4} = \frac{18}{4}$$

- a.) 22/4 or 3 1/4 b.) 13/4 or 3 1/4 c.) 18/4 or 4 2/4 d.) 19/4 or 4 3/4

- 5.) Find the sum of 3.5 and 1.04?

- a.) 4.54 b.) 6.04 c.) 2.46 d.) 1.66

$$\begin{array}{r} 3.50 \\ 1.04 \\ \hline 4.54 \end{array}$$

- 6.) Finish expanding the following number in correct place value form.

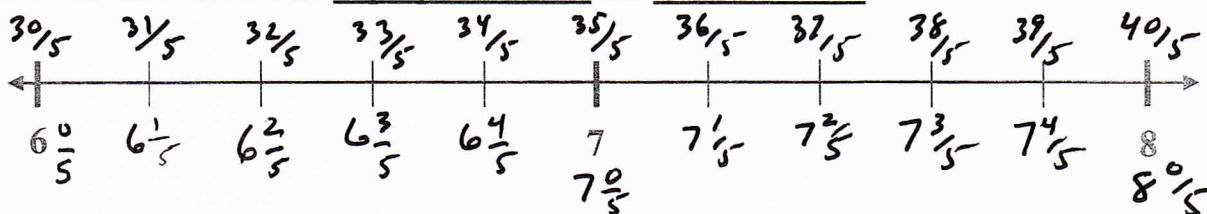
$$653,002.69 = 600,000 + 50,000 + 3,000 + 2 + \frac{6}{10} + \frac{9}{100}$$

$$0.6 + 0.09$$

- 7.) What is the number 653,002.69 rounded to the nearest one hundred thousand place value?

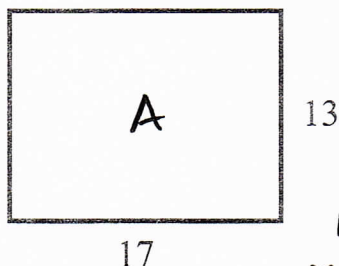
- a.) 600,000 b.) 100,000 c.) 700,000 d.) 653,000

- 1.) Label the number line...all
- improper fractions
- and
- mixed numbers
- .



- 2.) Calculate the
- area
- for part a.) and
- perimeter
- for part b.) in the problems below.

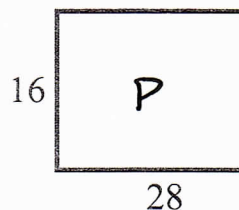
a.)



- a.) 30
b.) 60
c.) 221
d.) 71

$$\begin{array}{r} 17 \\ \times 13 \\ \hline 51 \\ 17 \\ \hline 221 \end{array}$$

b.)



- a.) 34
b.) 88
c.) 448
d.) Not here

$$\begin{array}{r} 28 \\ + 16 \\ \hline 44 \times 2 = 88 \end{array}$$

- 3.) Order the decimals from
- Least to Greatest
- on the line provided below.

0.03 0.02 0.9⁰ 0.2⁰ 1.07 0.4⁰
0.02, 0.03, 0.2, 0.4, 0.9, 1.07

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$3\frac{3}{5} = \frac{18}{5}$$

- a.) 22/4 or 3 1/4 b.) 18/5 or 3 3/5 c.) 16/5 or 5 1/5 d.) 21/5 or 5 3/5

- 5.) Find the difference of 3.52 and 1.9?

a.) 5.42

b.) 1.62

c.) 2.62

d.) 1.66

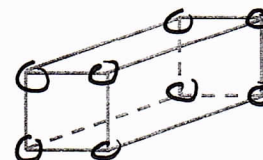
$$\begin{array}{r} 3.52 \\ - 1.9 \\ \hline 1.62 \end{array}$$

- 6.) Given the following numbers: 7, 56, 8 Write the fact family (4 operations, needed).

$$8 \times 7 = 56, \quad 7 \times 8 = 56, \quad 56 \div 7 = 8, \quad 56 \div 8 = 7$$

- 7.) Find the number of edges, vertices, and faces on the
- rectangular prism
- below.

$$\begin{array}{l} V = 8 \\ E = 12 \\ F = 6 \end{array}$$



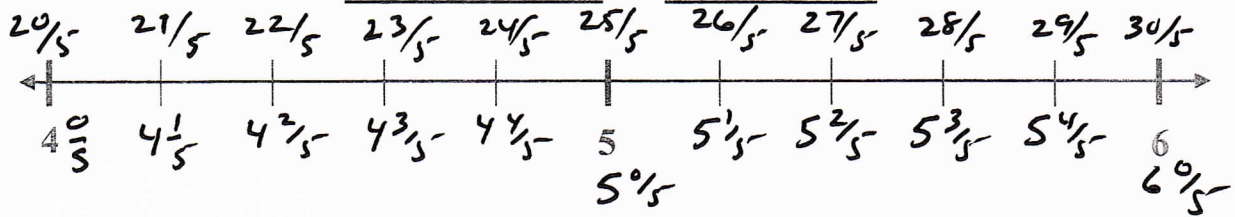
- a.) E=8, V=8, F=6 b.) E=12, V=8, F=6 c.) E=10, V=6, F=8 d.) Not here

- 8.) Solve for "H" in the expression:
- $H = 5 \times (2 \times 3)$

$$5 \times 6 = 30$$

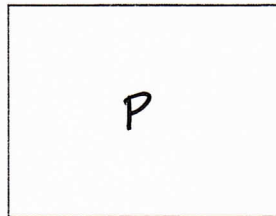
$$H = 30$$

- 1.) Label the number line...all
- improper fractions
- and
- mixed numbers
- .



- 2.) Calculate the
- perimeter
- in part a.) and
- area
- in part b.) in the problems below.

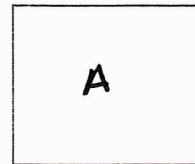
a.)



17

13

b.)



28

16

- a.) 30
☒ b.) 60
☒ c.) 221
☐ d.) 71

$$(17 + 13) \times 2 = 60$$

- a.) 34
☐ b.) 68
☒ c.) 448
☐ d.) 1204

$$\begin{array}{r} 28 \\ \times 16 \\ \hline 168 \\ 280 \\ \hline 448 \end{array}$$

- 3.) Order the decimals from
- Greatest to Least
- on the line provided below.

0.08 0.07 0.8° 0.7° 1.41 0.3°
0.07 0.08 0.3 0.7 0.8 1.41

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$3 \frac{4}{5} = \frac{19}{5}$$

- a.) 22/4 or 3 1/4 b.) 18/5 or 3 3/5 ☒ c.) 19/5 or 3 4/5 d.) 21/5 or 5 3/5

- 5.) Find the difference of 10 and 1.92? (Check by adding)

a.) 9.08

b.) 7.62

☒ c.) 8.08

d.) 11.92

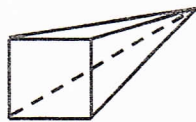
$$\begin{array}{r} 10.00 \\ - 1.92 \\ \hline 8.08 \end{array}$$

$$\begin{array}{r} 8.08 \\ + 1.92 \\ \hline 10.00 \end{array} \checkmark$$

- 6.) Given the following numbers: 3, 24, 8 Write the fact family (4 operations, needed).

$$\underline{3 \times 8 = 24 \quad 8 \times 3 = 24 \quad 24 \div 8 = 3 \quad 24 \div 3 = 8}$$

- 7.) Find the number of edges, vertices, and faces on the pyramid shown below.



$$\begin{array}{l} V = 5 \\ F = 5 \\ E = 8 \end{array}$$

Name the pyramid shown to the left: Square pyramid

- a.) E=8, V=8, F=6 b.) E=12, V=8, F=6 c.) E=5, V=5, F=5 ☒ d.) Not here

- 8.) Subtract and check by adding:
- $2 - 0.751 = \underline{1.249}$
- (Hint: Where is the decimal point on the number 2?)

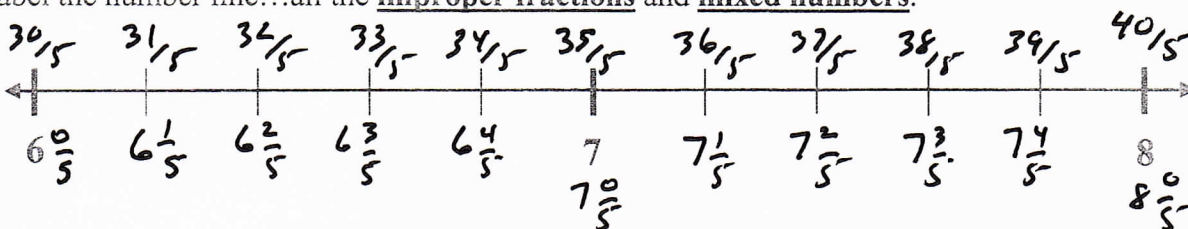
$$\begin{array}{r} 2.000 \\ - 0.751 \\ \hline 1.249 \end{array}$$

$$\begin{array}{r} 1.249 \\ + 0.751 \\ \hline 2.000 \end{array} \checkmark$$

Name: SOLUTIONS

4th Grade Math STAAR Warm-up Number 7

- 1.) Label the number line...all the improper fractions and mixed numbers.



- 2.) Andrea is twice as old as Karen. Karen is 15. How old is Andrea?

a.) 30

b.) 17

c.) 37

d.) 10

$$\begin{aligned} K &= 15 \\ A &= 2 \times K \\ A &= 2 \times 15 \\ &= 30 \end{aligned}$$

- 3.) Order the decimals from Least to Greatest on the line provided below.

0.31 0.02 0.9 0.20 2.07 1.4

0.02 0.20 0.31 0.9 1.4 2.07

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$3 \frac{3}{4} = \frac{15}{4}$$

a.) 22/4 or 3 3/4

b.) 15/4 or 3 3/4

c.) 19/4 or 3 3/4

d.) 21/4 or 3 3/4

- 5.) Derrick saves photographs in a 4 page photo album (book). He has 28 pictures on the first page and 20 pictures on the second page. If he has 100 total photographs in his album and there are an equal number of photographs on each of the last two pages, how many photographs are on the last page?

$$\begin{array}{r} 28 \\ + 20 \\ \hline 48 \\ 100 - 48 \\ \hline 52 \\ 52 \div 2 \\ \hline 26 \end{array}$$

a.) 112

b.) 80

c.) 26

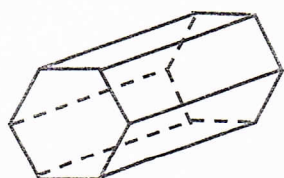
d.) 560

28 20 26 26

- 6.) Given the following numbers: 9, 72, 8 Write the fact family (4 operations, needed).

$$8 \times 9 = 72 \quad 9 \times 8 = 72 \quad 72 \div 9 = 8 \quad 72 \div 8 = 9$$

- 7.) Find the number of edges, vertices, and faces on the prism shown below.



$$\begin{aligned} F &= 8 \\ E &= 6 + 3 = 18 \\ V &= 12 \end{aligned}$$

Name the prism shown to the left: Hexagonal Prism

a.) E=8, V=8, F=6

b.) E=18, V=12, F=8

c.) E=10, V=6, F=8

d.) Not here

- 8.) Solve for "T" in the following expression: $T = 3 \times (4 + 2) - 10$

(Hint: Parenthesis say, "Do me First!")

$$\begin{aligned} 3 \times 6 &= 18 \\ 18 - 10 &= 8 \end{aligned}$$

T = 8

- 1.) Andreas wants to run one mile. He has already run 1000 feet. How many feet does he have left to run?

a.) 300

b.) 4280

c.) 1260

d.) 1000

$$\begin{array}{r} 5,280 \\ -1,000 \\ \hline 4,280 \end{array}$$

- 2.) Gloria is three times as old as Valerie. Karen is 3 years older than Valerie. How old is Karen, if Gloria is 30 years old? (Think. Hint: Write each girl's name with their age next to the name.)

a.) 30

b.) 17

c.) 13

d.) 10

$$\begin{array}{l} G = 3 \times V \\ 30 = 3 \times V \\ V = 10 \end{array}$$

- 3.) Order the decimals from Least to Greatest on the line provided below. (Think!!!)

0.09 4.021 0.9 0.20 2.073 4.01

0.09 0.20 0.9 2.073 4.01 4.021

$$\begin{array}{l} K = V + 3 \\ = 10 + 3 \\ = 13 \end{array}$$

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$3 \frac{2}{3} = \frac{11}{3}$$

a.) 22/3 or 3 2/4

b.) 11/3 or 3 2/3

c.) 11/4 or 3 2/4

d.) 11/3 or 2 2/3

- 5.) Al saves photographs in a 4-page photo album (book). He has 28 pictures on the first page and 20 pictures on the second page. On the last two pages he has 23 on each page. How many photographs does he have in all?

a.) 112

b.) 94

c.) 26

d.) 560

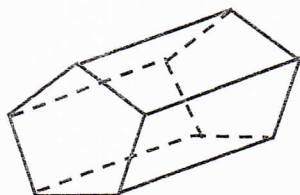
$$\begin{array}{|c|c|c|c|} \hline 28 & 20 & 23 & 23 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ 46 \\ \hline 94 \end{array}$$

- 6.) Given the following numbers: 27, 3, 9 Write the fact family (4 operations, needed).

$$3 \times 9 = 27, 9 \times 3 = 27, 27 \div 9 = 3, 27 \div 3 = 9$$

- 7.) Find the number of edges, vertices, and faces shown on the prism below.



Name the prism shown to the left: pentagonal prism

$$\begin{array}{l} E = 15 \\ V = 10 \\ F = 7 \end{array}$$

- a.) E=15, V=10, F=7 b.) E=18, V=12, F=8 c.) E=10, V=6, F=8 d.) Not here

- 8.) Amanda loves orange juice. She already drank 13 ounces, but she wants to drink a total of 2 cups. How many more ounces of orange juice does Amanda need to drink?

a.) 16

b.) 3

c.) 6

d.) 10

$$\begin{array}{r} 16 \\ -13 \\ \hline 3 \end{array}$$

- 9.) Solve for "Amanda" in the expression:
(Hint: PEMDAS)...one step at a time!

$$\begin{array}{l} \text{Amanda} = 20 - 3 \times (8 \div 2) \\ 20 - 3 \times (4) \\ 20 - 12 \\ = 8 \end{array}$$

$$\text{Amanda} = \underline{8}$$

Name: SOLUTIONS

4th Grade Math STAAR Warm-up Number 9

- 1.) Andreas wants to run two miles. He has already run 5,000 feet. How many feet does he have left to run?

a.) 300

b.) 5,280

c.) 3,020

d.) 5,560

$$\begin{array}{r} 5,280 \\ 5,280 \\ \hline 10,560 \\ - 5,000 \\ \hline 5,560 \end{array}$$

- 2.) Olga is two times as old as Valerie. Valerie is 2 years younger than Lisa. How old is Lisa, if Olga is 20 years old?

a.) 30

b.) 12

c.) 13

d.) 20

$$\begin{array}{l} O = 2 \times V \\ 20 = 2 \times V \\ V = 10 \\ V = L - 2 \\ 10 = L - 2 \\ L = 12 \end{array}$$

- 3.) Order the decimals from Greatest to Least on the line provided below. (Think!!!)

0.6 0.021 0.24 0.2 5.073 2.021

5.073 2.021 0.6 0.24 0.2 0.021

- 4.) What is the improper fraction and mixed number for the shaded portion shown below?



$$3\frac{1}{2} = \frac{7}{2}$$

a.) $22/2$ or $3\frac{1}{2}$

b.) $7/2$ or $3\frac{1}{2}$

c.) $11/3$ or $3\frac{2}{3}$

d.) $11/3$ or $2\frac{2}{3}$

- 5.) 183 children are going to the museum on a field trip. If only 90 children can be seated on each bus, how many buses are needed to take all 183 children to the museum?

a.) 1

b.) 2

c.) 3

d.) 93

$$\begin{array}{r} 4.511 \\ 2.03 \\ \hline 6.541 \end{array}$$

90 90 3

$90 \overline{) 183} \begin{array}{l} 2 \\ r 3 \end{array}$
Used 1 more bus

- 6.) What is the sum of 2.03 and 4.511?

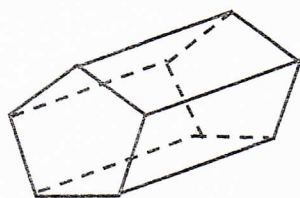
a.) 6.541

b.) 2.508

c.) 2.408

d.) 12.12

- 7.) Find the number of edges, vertices, and faces on the prism shown below.



$$\begin{array}{l} F = 7 \\ E = 15 \\ V = 10 \end{array}$$

Name the prism shown to the left:

pentagonal prism

a.) E=15, V=10, F=7

b.) E=18, V=12, F=8

c.) E=10, V=6, F=8

- 8.) Mabel loves apple juice. She already drank 20 ounces, but she wants to drink 3 cups. How many more ounces of apple juice does Mabel need to drink?

a.) 16

b.) 3

c.) 6

d.) 4

$$\begin{array}{r} 24 \\ - 20 \\ \hline 4 \end{array}$$

- 9.) What is the perimeter of a rectangle with a length of 5 feet and a width of 4 feet? (Thinking required)

a.) $2 \times (5 \times 4)$

b.) $2 \times (5 - 4)$

c.) $2 \times (5 + 4)$

d.) $5 + 4$

$$\begin{array}{r} 4 + 5 = 9 \\ \times 2 \\ \hline 18 \end{array}$$

Name: SOLUTIONS

4th Grade Math STAAR Warm-up Number 10

1.) Andreas wants to run one mile. He has already run 2000 feet. How much does he have left to run?

a.) 300

b.) 3280

c.) 3020

d.) 1000

$$\begin{array}{r} 5,280 \\ -2,000 \\ \hline 3,280 \end{array}$$

2.) Olga is half as old as Valerie. Valerie is 2 years older than Lisa. How old is Lisa, if Olga is 5 years old?

a.) 30

b.) 12

c.) 8

d.) 20

$$L = V - 2 = 8$$

$$\begin{array}{l} V = 2 \times O \\ V = 2 \times 5 \\ = 10 \end{array}$$

3.) What number is between 3,490,921 and 3,120,009

a.) 3,909,090

b.) 3,004,009

c.) 3,209,999

d.) 3,543,234

4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$3 \frac{3}{4} = 15 \frac{3}{4}$$

a.) $13/4$ or $3 \frac{1}{4}$

b.) $7/4$ or $3 \frac{1}{4}$

c.) $15/4$ or $3 \frac{3}{4}$

d.) $11/4$ or $3 \frac{2}{4}$

5.) 5 children can fit in 1 car. If 27 children are going to a movie, how many total cars are needed to take the children?

a.) 6

b.) 5

5 5 5 5 5 2 6 cars

c.) 135

d.) 5 R 2

$$\begin{array}{r} 5 \overline{)27} \\ \underline{25} \\ 2 \end{array} \begin{array}{l} 5 \text{ r } 2 \\ \text{Extra car} \end{array}$$

6.) What is the sum of 2 and 4.511? (Think...where is the decimal on the 2?)

a.) 6.511

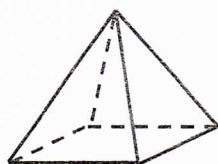
b.) 2.508

c.) 2.408

d.) 12.12

$$\begin{array}{r} 2.000 \\ 4.511 \\ \hline 6.511 \end{array}$$

7.) Find the number of edges, vertices, and faces on the pyramid shown below.



Name the pyramid shown to the left: square pyramid

$$\begin{array}{l} V = 5 \\ E = 8 \\ F = 5 \end{array}$$

a.) $E=15, V=10, F=7$

b.) $E=8, V=5, F=5$

c.) $E=10, V=6, F=8$

d.) Not here

8.) Winter drank 30 ounces of water, but she wants to drink 4 cups. How many more ounces does Winter need to drink?

$$32 - 30 = 2$$

a.) 16

b.) 2

c.) 6

d.) 4

9.) What is the product of "Mabel" and "Andrea"?

$$\text{"Mabel"} = 5 \times 2 = 10$$

$$\text{"Andrea"} = 8 - (4 + 1) = 8 - 5 = 3$$

a.) 13

b.) 21

c.) 30

d.) 7

$$10 \times 3 = 30$$

Name: SOLUTIONS

4th Grade Math STAAR Warm-up Number 11

- 1.) Which of the following equations are correct?

~~a.)~~ $300 \times 10 = 30,000$ **b.)** $3,280 \times 10 = 32,800$ ~~c.)~~ $250 \times 100 = 2,500$ ~~d.)~~ Not here

- 2.) Adrienne is half as old as Chao-Lin. Chao-Lin is 3 times older than Lisa. How old is Lisa, if Adrienne is 12 years old? (This is a 5th grade problem, but you can do it...one person at a time.)

a.) 30 b.) 12 **c.)** 8 d.) 20

$$\begin{aligned} 2 \times A &= C - L \\ 2 \times 12 &= C - L \\ 24 &= C - L \\ 8 & \end{aligned}$$

- 3.) What number is between 23,090,921 and 23,120,899

a.) 23,909,090 b.) 23,004,009 c.) 23,109,999 d.) 23,543,234

- 4.) What is the improper fraction and mixed number for the shaded portion shown below.

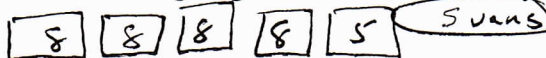


a.) $16/5$ or $3 \frac{1}{5}$ b.) $7/5$ or $3 \frac{1}{5}$ c.) $11/5$ or $3 \frac{1}{5}$ **d.)** $17/5$ or $3 \frac{2}{5}$

$$3 \frac{2}{5} = \frac{17}{5}$$

- 5.) 8 children can fit in 1 van. If 35 children are going to a movie, how many total vans are needed to take the children?

a.) 6 **b.)** 5 c.) 272 d.) Not Here



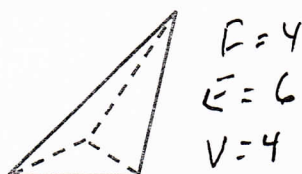
$$\begin{array}{r} 4 \text{ r } 3 \\ 8 \overline{) 35} \\ \underline{32} \\ 3 \end{array}$$

- 6.) What is the sum of 5 and 4.613? (Think...where is the decimal on the number 5?)

a.) 6.511 **b.)** 9.613 c.) 4.618 d.) 12.12

$$\begin{array}{r} 5.000 \\ 4.613 \\ \hline 9.613 \end{array}$$

- 7.) Find the number of edges, vertices, and faces on the pyramid shown below.



Name the pyramid shown to the left: triangular pyramid

a.) $E=15, V=10, F=7$ **b.)** $E=6, V=4, F=6$ ~~c.)~~ $E=10, V=6, F=8$ **d.)** Not here

- 8.) Jordan drank 39 ounces of water, but he wants to drink 5 cups. How many more ounces does Jordan need to drink?

a.) 16 b.) 2 c.) 6 **d.)** 1

$$\begin{array}{r} 40 \\ -39 \\ \hline 1 \end{array}$$

- 9.) What is $30,000 + 200 + 9 + 0.2$? = 30,209.2

a.) 329.2 b.) 3,209.02 **c.)** 30,209.2 d.) 302,009.2

- 10.) What is the sum of "Mabel" and "Andrea"? "Mabel" = 4×3 "Andrea" = $8 - (4 \times 2)$

a.) 13 **b.)** 12 c.) 30 d.) 0

$$\begin{array}{r} 12 \\ + 0 \\ \hline 12 \end{array}$$

1.) Which of the following equations are correct?

- a.) $203 \times 10 = 20,300$ \times **b.) $203 \times 100 = 20,300$** \times $203 \times 100 = 2,030$ d.) Not here

2.) What is 3,567 rounded the nearest 100 and 1,000?

- a.) 3,600 and 3,000 b.) 3,500 and 4,000 **c.) 3,600 and 4,000** d.) Not here

3.) What number is between 41,190,999 and 42,120,899

- a.) 42,909,090 \times b.) 41,004,009 \times **c.) 41,809,999** d.) 42,543,234

4.) What is the improper fraction and mixed number for the shaded portion shown below.

h.) $16/$ or $3 \frac{1}{4}$ **j.) $14/4$ or $3 \frac{1}{2}$** k.) $11/4$ or $3 \frac{1}{2}$ L.) $17/4$ or $3 \frac{2}{3}$ 5.) Rigo baked 144 cookies and placed an equal number of cookies in 9 bags. How many cookies were in the 4th bag?

a.) 123

b.) 14

c.) 15

d.) 16

6.) What is the difference of 6 and 2.61? (Think...where is the decimal on the number 6?)

h.) 3.49

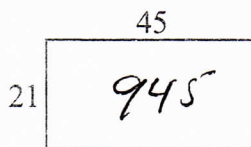
j.) 3.39

k.) 8.61

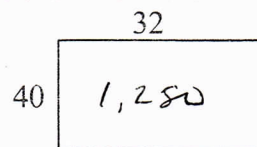
L.) 2.67

7.) What is the difference in the area of the rectangles shown below?

$$\begin{array}{r} 45 \\ 21 \\ \hline 945 \end{array}$$



a.) 945

b.) 335

c.) 132

d.) Not here

8.) Steve drank 2 liters of V-8. How many milliliters is this amount?

h.) 2

j.) 20

k.) 200

L.) 2,0009.) What is $500,000 + 80,000 + 4,000 + 9$? **584,009**

a.) 5,849

b.) 585,900

c.) 589,500

d.) 584,009

10.) About how many gallons does it take to fill a normal sized bath tub?

h.) 300

j.) 30

k.) 3

L.) Not here

12.) Sandoval Accounting had fixed expenses equaling 200 dollars and variable expenses of 300 dollars.

The company had revenues of 1,050 dollars. What was Sandoval Accounting's profit?

a.) 650

b.) 550 $P = R - E$

c.) 1,550

d.) 850

$$E = 200 + 300 = 500$$

1.) Which of the following equations must be multiplied by 1,000 to be true?

- a.) $149 \times \frac{\square}{100} = 14,900$ **b.)** $406 \times \frac{\square}{1000} = 406,000$ c.) $203 \times \frac{\square}{10} = 2,030$ d.) Not here

2.) What is 8,345 rounded the nearest 10 and 100? 8,350 8,300

- a.) 8,300 and 8,340 b.) 8,400 and 9,000 **c.)** 8,350 and 8,300 d.) Not here

3.) What number is between 22,030,996 and 22,820,897

- a.) 22,909,090 **b.)** 22,404,009 c.) 22,899,999 d.) 23,543,234

4.) What is the improper fraction and mixed number for the shaded portion shown below.



$$3 \frac{2}{3} = \frac{11}{3}$$

- a.) $16/3$ or $3 \frac{1}{3}$ b.) $14/3$ or $3 \frac{1}{3}$ c.) $11/4$ or $3 \frac{1}{2}$ **d.)** $11/3$ or $3 \frac{2}{3}$

5.) Carlos collects baseballs. He has 228 baseballs and placed an equal number of baseballs in 12 bags. How many baseballs were in the 9th bag?

- a.) 2,736 **b.)** 19 c.) 15 d.) 16

$$\begin{array}{r} 19 \\ 12 \overline{) 228} \\ \underline{12} \\ 108 \\ \underline{108} \\ 0 \end{array}$$

19 in every bag

6.) What is the difference of 5.1 and 2.61?

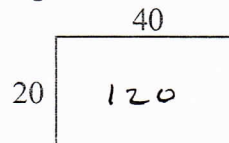
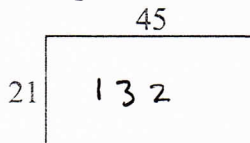
- a.)** 2.49 b.) 2.39 c.) 7.61 d.) 12.12

$$\begin{array}{r} 5.10 \\ \underline{2.61} \\ 2.49 \end{array}$$

$$\begin{array}{r} 2.49 \\ \underline{2.61} \\ 5.10 \end{array}$$

7.) What is the sum of the perimeters of the two rectangles shown below?

$$\begin{array}{r} 21 \\ + 45 \\ \hline 66 \times 2 \end{array}$$



$$\begin{array}{r} 132 \\ \underline{120} \\ 252 \end{array}$$

- a.) 945 b.) 66 **c.)** 252 d.) Not here

8.) Eric drank half a liter of V-8. How many milliliters is this amount? (Think)

- a.) 2 b.) 20 500 **c.)** 500 d.) 2,000

9.) What is $(3 \times 100,000) + (4 \times 10,000) + (5 \times 1,000) + (2 \times 100) + (6 \times 1) + (9 \times 1/10) + (1 \times 1/100)$?

- a.)** 345,026.91 345,206.910 b.) 345,206.19 c.) 345,206.91 d.) Not here

10.) About how many ounces are there in a small juice box or milk you drink at breakfast or lunch?

- a.) 300 b.) 30 **c.)** 8 d.) 2,000

11.) What is the difference between "Betty" and "Sam"?

"Betty" = $45 - (4 \times 5)$ "Sam" = $10 + (2 \times 5)$

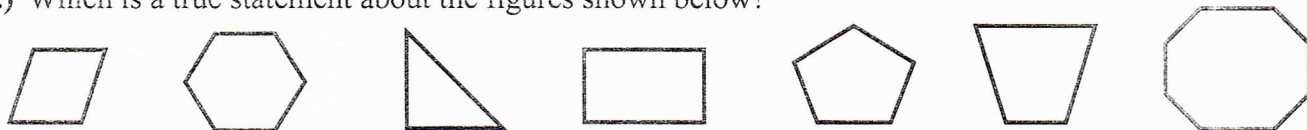
- a.) 3 **b.)** 5 c.) 250 d.) 45

$$\begin{array}{r} 25 \\ - 20 \\ \hline 5 \end{array}$$

Name: SOLUTION

4th Grade Math STAAR Warm-up Number 14

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



f.) All shapes are quadrilaterals no

g.) All shapes are pentagons no

h.) All shapes are hexagons no

j.) All shapes are polygons yes

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

Flowers

| Number of Flower Beds | Total Number of Roses |
|-----------------------|-----------------------|
| 26 <u>-14</u> | 12 |
| 31 <u>-14</u> | 17 |
| 45 <u>-14</u> | 31 |
| 53 <u>-14</u> | 39 |

Which of the following describes the relationship in the table?

a.) Total Number of Roses + 13 = Number of Flower Beds

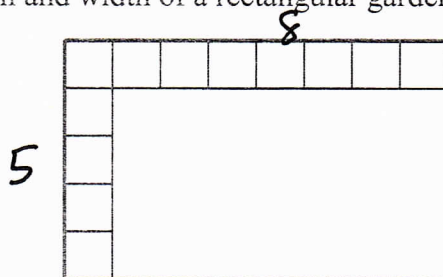
b.) Total Number of Roses x 2 = Number of Flower Beds

c.) Total Number of Roses + 14 = Number of Flower Beds

d.) Total Number of Roses - 14 = Number of Flower Beds

3.) The model below shows the length and width of a rectangular garden.

$$\begin{array}{r} \times 8 \\ 5 \\ \hline 40 \end{array}$$



= 1 square meter

What is the area of this garden in square meters?

f.) 13 square meters

g.) 26 square meters

h.) 40 square meters

j.) 45 square meters

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



a.) 12.4

b.) 12.9

c.) 13.6

d.) 12.6

5.) At a birthday party on Friday, John turned 13 years old. His brother, Sam, is 5 years older than he is.

John's father is twice as old as Sam. John's other brother, Jacob, is 6 years younger than Sam.

What is the combined ages of these four people in John's family?

f.) 83 years

h.) 79 years

g.) 56 years

j.) Not Here

6.) The population of Dallas, Texas is 4,636,309. What is the number with the same value in expanded form?

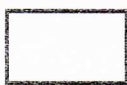
a.) 400,000 + 30,000 + 6,000 + 300 + 9

c.) 4,000,000 + 600,000 + 30,000 + 300 + 9

b.) 4,000,000 + 30,000 + 6,000 + 300 + 9

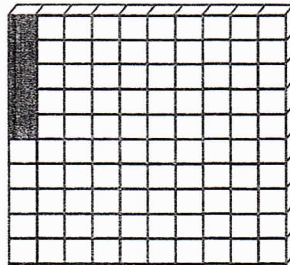
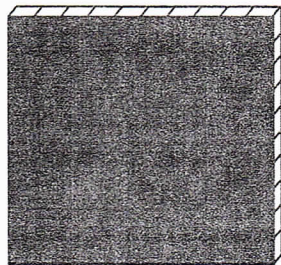
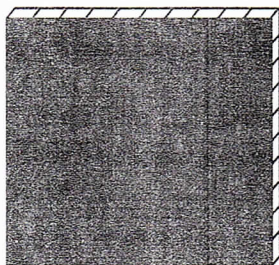
d.) 4,000,000 + 600,000 + 30,000 + 6,000 + 300 + 9

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



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

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

2.) The model below is shaded to represent $2\frac{5}{100}$.

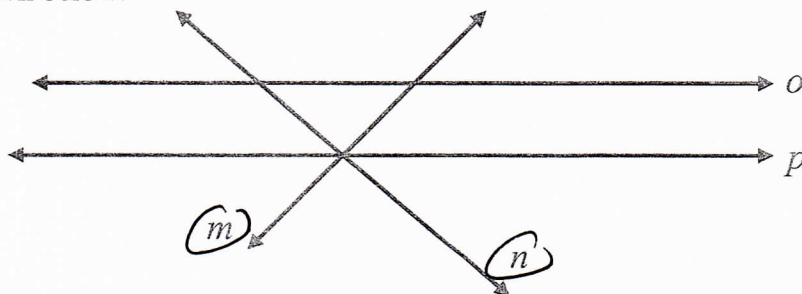
$$2\frac{5}{100} = 2.05$$

check $\Rightarrow 2.05 = 2\frac{5}{100}$ ✓

Which decimal does the model represent?

- a.) 2.5 b.) 25.05 c.) 2.05 d.) 2.005

3.) A group of lines is shown below.



Which two lines appear perpendicular?

- f.) Lines o and p g.) Lines m and p h.) Lines m and n j.) Lines n and o

Which two lines appear parallel?

- a.) Lines o and p b.) Lines m and p c.) Lines m and n d.) Lines n and o

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



- a.) $30\frac{1}{4}$ b.) $31\frac{2}{4}$ c.) $30\frac{2}{4}$ d.) $30\frac{3}{4}$

5.) Olga is 30 years old. Valeria is half of Olga's age, and Katerina is 5 years younger than Valeria. What is the difference between Olga's and Katerina's ages?

- f.) 35 years h.) 15 years g.) 20 years j.) Not Here

$$\begin{array}{r} 30 \\ -10 \\ \hline 20 \end{array}$$

6.) 53,032,501 people watched the Super Bowl. What is the number with the same value in expanded form?

- a.) $50,000,000 + 30,000 + 2,000 + 500 + 1$ c.) $5,000,000 + 300,000 + 30,000 + 500 + 1$
b.) $50,000,000 + 3,000,000 + 30,000 + 2,000 + 500 + 1$ d.) $5,000,000 + 300,000 + 30,000 + 2,000 + 50 + 1$

1.) Two models below are shaded to represent two different fractions.



$\frac{5}{12}$



$\frac{3}{7}$

Which statement is true using the two fraction models above?

☒ a.) $\frac{5}{12} > \frac{3}{7}$

h.) $\frac{5}{12} < \frac{3}{7}$

☒ g.) $\frac{3}{7} > \frac{5}{12}$

j.) $\frac{3}{7} = \frac{5}{12}$

2.) The number sentence is shown below.

x 15 =

$$\begin{array}{r} 4 \\ 15 \\ \times 9 \\ \hline 135 \end{array}$$

Which table shows numbers that correctly complete the number sentence?

a.)

| | | | | |
|----------------------|----|----|-----|-----|
| <input type="text"/> | 3 | 5 | 7 | 9 |
| <input type="text"/> | 45 | 75 | 105 | 125 |

~~b.)~~

| | | | | |
|----------------------|----|----|-----|-----|
| <input type="text"/> | 3 | 5 | 7 | 9 |
| <input type="text"/> | 30 | 75 | 105 | 125 |

☒ c.)

| | | | | |
|----------------------|----|----|-----|-----|
| <input type="text"/> | 3 | 5 | 7 | 9 |
| <input type="text"/> | 45 | 75 | 105 | 135 |

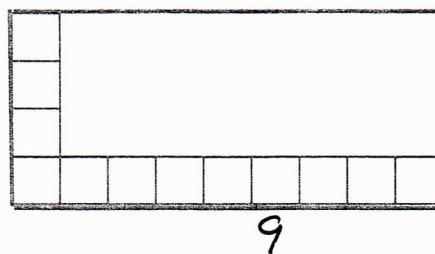
d.)

| | | | | |
|----------------------|----|----|-----|-----|
| <input type="text"/> | 3 | 5 | 7 | 9 |
| <input type="text"/> | 45 | 75 | 105 | 155 |

3.) The model below shows the length and width of a rectangular patio.

$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

4

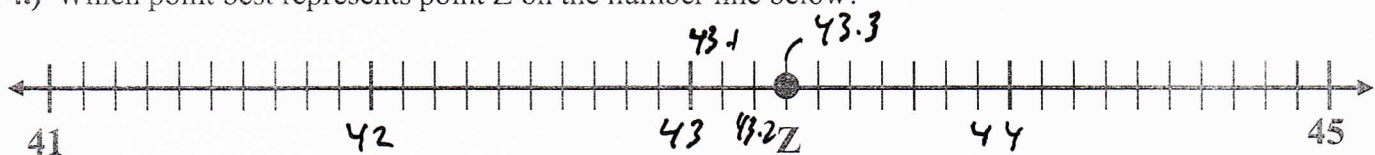


= 1 square meter

What is the area of this patio in square meters?

- f.) 13 square meters ☒ g.) 36 square meters h.) 40 square meters j.) 26 square meters

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



a.) 42.2

b.) 42.3

c.) 43.2

☒ d.) 43.3

Name: Solution

4th Grade Math STAAR Warm-up Number 17

- 1.) Pedro saved 36 dollars every day from his job as a paper boy. He worked every day including Saturdays and Sundays for 52 consecutive days. About how much money did Pedro save over the total days he worked?

$$\begin{array}{r} 52 \times 36 = 1872 \\ 52 \times 30 = 1560 \\ 52 \times 6 = 312 \\ \hline 1872 \end{array}$$

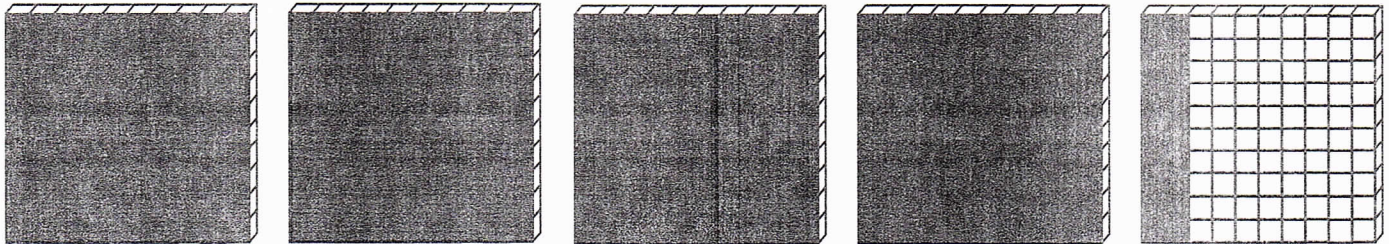
f.) 90 dollars

g.) 200 dollars

h.) 2,000 dollars

j.) 20,000 dollars

- 2.) The model below is shaded to represent a decimal.



Which decimal does the model represent?

4 20/100

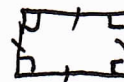
- a.) four and thirty tenths b.) four hundred twenty c.) four and twenty hundredths d.) Not Here

- 3.) Olga drew a quadrilateral. The figure had 2 pairs of congruent sides and 4 right angles. What was the figure that Olga drew? (Draw a picture of each answer choice and match the description in the problem.)

f.) Rectangle

g.) trapezoid

h.) square



j.) rhombus

- 4.) A theatre made 40,000 dollars over the weekend in total revenues, but total expenses were 19,000. What is the total amount of profit the movie theatre made over the weekend? **PROFIT** = 21,000

$P = R - E = 40000 - 19000 = 21000$

- 5.) What is 251.176 rounded to the nearest tenth AND to the nearest hundredth?

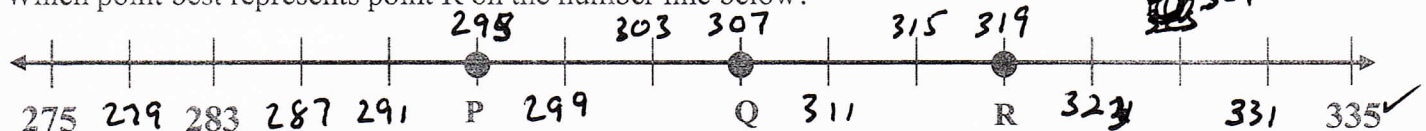
f.) 251.1 and 200

g.) 251.2 and 251.17

~~h.) 251.2~~ and 251.18

j.) 251.2 and 300

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



a.) 319

b.) 295

c.) 327

d.) 307

- 7.) Karen had 4 boxes with 8 items in each box. Which number sentence **CANNOT** be used to find the number of total items in the four boxes?

f.) $4 \times 8 = \square$

h.) $\square \div 4 = 8$

g.) $\square + 4 = 8$

j.) $8 \times 4 = \square$

- 8.) Andreas had \$ 5.39 in his pocket. What number is in the hundredths place?

a.) 3

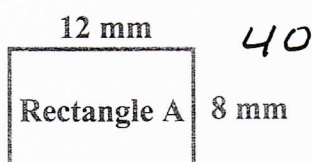
b.) 9

c.) 5

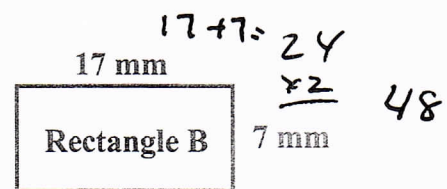
d.) Not Here

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

$(12 + 8) \times 2 = 40$

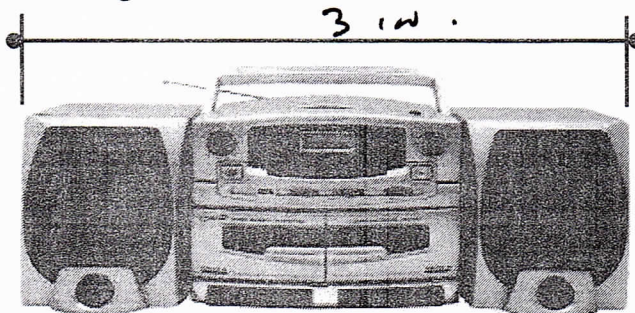


$48 - 40 = 8$



What is the difference in perimeter between Rectangle A and Rectangle B? 8 millimeters (mm)

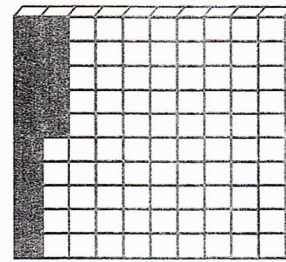
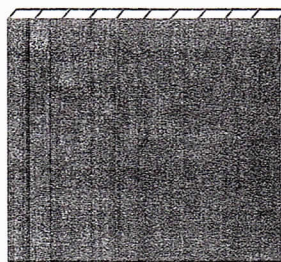
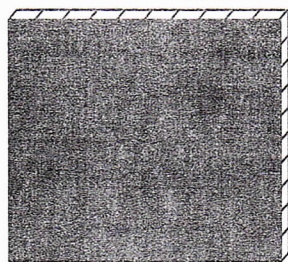
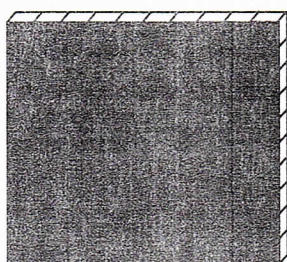
- 1.) Alisa and Andrea purchased 6 radio boom boxes like the one shown below for the 4th grade field trip. The line segment represents the length of the radio boom boxes.



$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

Use the ruler provided to measure the line segment above the radio boom box to the nearest inch. What is the total length of all of the 6 radio boom boxes that Alisa and Andrea purchased?

- f.) 3 in. h.) 6 in. g.) 12 in. j.) 18 inch
- 2.) The model below is shaded to represent $3\frac{15}{100}$.



Which decimal does the model represent?

- a.) 31.5 b.) 3.15 c.) 3.51 d.) 3.015
- 3.) The model below is shaded to represent a fraction greater than 1.



$$3\frac{1}{4} = \frac{13}{4}$$

Which fraction is represented by this model?

- f.) $\frac{4}{13}$ because there are four figures and 13 figures are shaded.
- g.) $\frac{13}{2}$ because 13 sections are shaded and more than half the figures are shaded.
- h.) $\frac{13}{4}$ because 13 sections are shaded and each figure is divided into 4 equal sections.
- j.) $\frac{13}{3}$ because 13 sections are shaded and 3 figures are completely shaded.

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



- a.) $45\frac{1}{4}$ b.) $46\frac{2}{4}$ c.) $46\frac{1}{4}$ d.) $46\frac{3}{4}$

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

- ☐ On Tuesday, she counted 138 cars
☐ On Wednesday, she counted 253 cars
☐ On Friday, she counted 324 cars

$$\begin{array}{r} 324 \\ - 138 \\ \hline 186 \end{array}$$

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

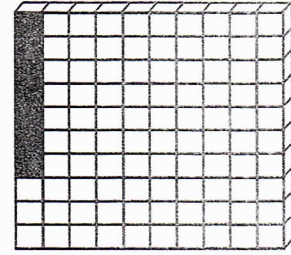
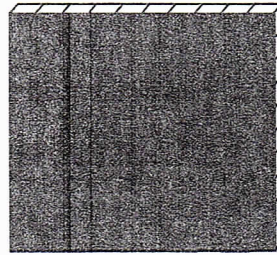
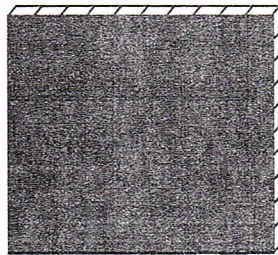
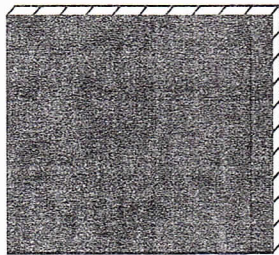
f.) 115

g.) 71

(h.) 186

j.) 462

- 2.) The model below is shaded to represent a decimal.



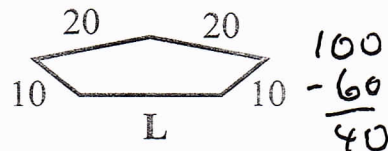
$$3\frac{7}{100}$$

$$3.07$$

Which decimal does the model represent?

- a.) three and seven tenths b.) three seventy (c.) three and seven hundredths d.) Not Here

- 3.) The pentagon to the right has a perimeter of 100 feet.
What is the length of side "L"?



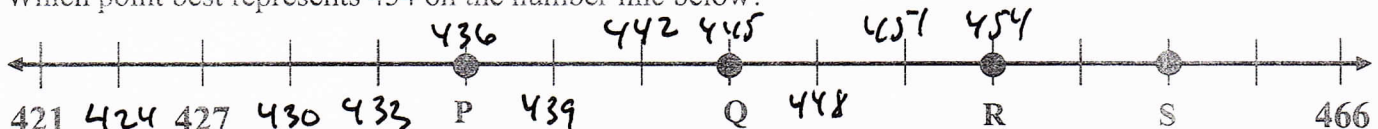
f.) 160 feet

(g.) 40 feet

h.) 35 feet

j.) 60 feet

- 4.) Which point best represents 454 on the number line below?



a.) Point P

b.) Point Q

(c.) Point R

d.) Point S

- 5.) Taylor Intermediate School's football game had exactly 1,000 people show-up. Each ticket cost \$14. What was the total amount of revenue that was collected at the gate of the football game?

f.) \$1,400

(h.) \$14,000

g.) \$140,000

j.) \$1,400,000

- 6.) Mabel writes her favorite decimal on a piece of paper. It is 43.0294. What digit is in the tenths place?

a.) 3

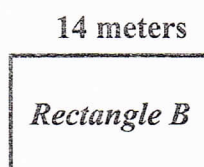
b.) 2

(c.) 0

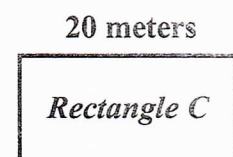
d.) 9

- 7.) The dimensions of two rectangles are shown to the right.

$$\begin{array}{r} 126 \\ 140 \\ \hline 266 \end{array}$$



$$\begin{array}{r} 14 \\ \times 9 \\ \hline 126 \end{array}$$



$$\begin{array}{r} 140 \\ 140 \\ \hline 140 \end{array}$$

What is the combined area of Rectangle B and Rectangle C? 266 square meters (m)²

- 8.) Mabel's Nail Salon made 2,000 dollars over the weekend in total revenues, but total expenses were 800.
What is the total amount of profit the Nail Salon made over the weekend?

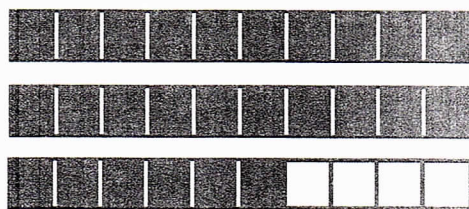
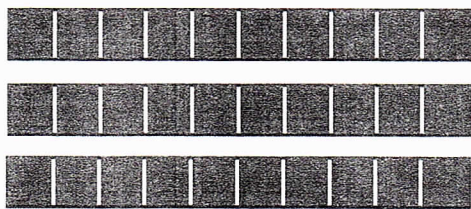
f.) \$1,400

h.) \$2,800

(g.) \$1,200

j.) \$1,200,000

1.) The model below is shaded to represent a number greater than 1.



$5\frac{6}{10}$
5.6

What fraction and decimal represent that number?

f.) $\frac{66}{100}$ and 0.66

h.) $5\frac{66}{100}$ and 5.66

g.) $5\frac{6}{10}$ and 5.06

j.) $5\frac{6}{10}$ and 5.6

2.) The table shows two related sets of numbers.

| $80 \div 4$ | 20 |
|-------------|----|
| $60 \div 4$ | 15 |
| $48 \div 4$ | 12 |
| $12 \div 4$ | 3 |

Which of the following describes the relationship in the table?

a.) - 60 =

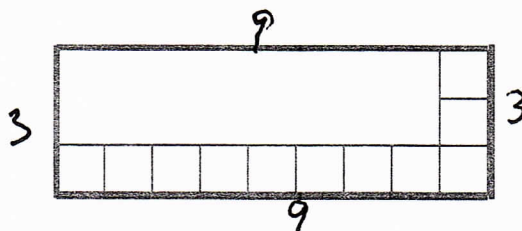
b.) $\div 4$ =

c.) - 45 =

d.) $\div 3$ =

3.) The model below shows the length and width of a rectangular garden.

$18 + 6 = 24$



= 1 square feet

What is the perimeter of this garden in feet?

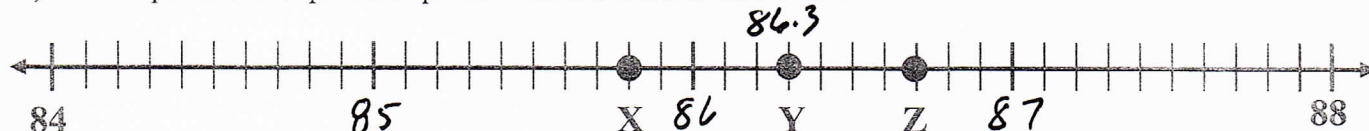
f.) 12 feet

g.) 36 feet

h.) 40 feet

j.) 24 feet

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



a.) 85.8

b.) 86.3

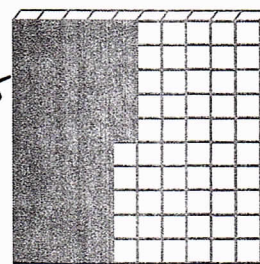
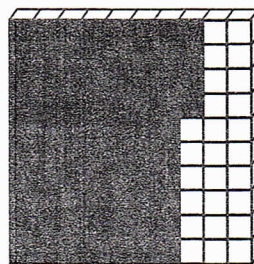
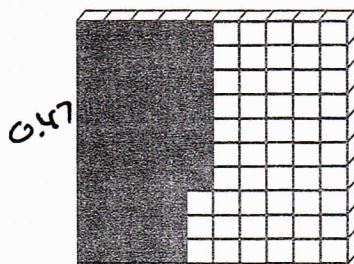
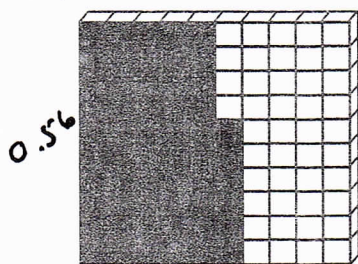
c.) 85.3

d.) 86.7

Name: Solution

4th Grade Math STAAR Warm-up Number 21

1.) The shaded models below represent four different decimal numbers.



Which list shows these decimal numbers in order from least to greatest?

a.) 0.56 0.47 0.74 0.45

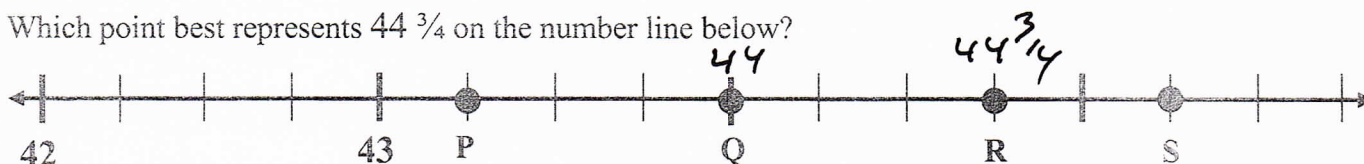
b.) 0.74 0.56 0.47 0.45

c.) 0.45 0.47 0.56 0.74

d.) 0.45 0.47 0.74 0.56

0.45 0.47 0.56 0.74

2.) Which point best represents $44\frac{3}{4}$ on the number line below?



a.) Point P

b.) Point Q

c.) Point R

d.) Point S

3.) Taylor used 435 cubes to make 5 'cube' stacked columns. He used an equal number of cubes in each column. How many cubes did Taylor use in each column?

f.) 2,175

h.) 430

g.) 87

j.) Not Here

$$\begin{array}{r} 87 \\ 5 \overline{) 435} \\ \underline{40} \\ 35 \end{array}$$

4.) Olga writes her favorite decimal on a piece of paper. It is 643.0294. What is the sum of the value of the digits in the ones place and the hundreds place?

a.) 7

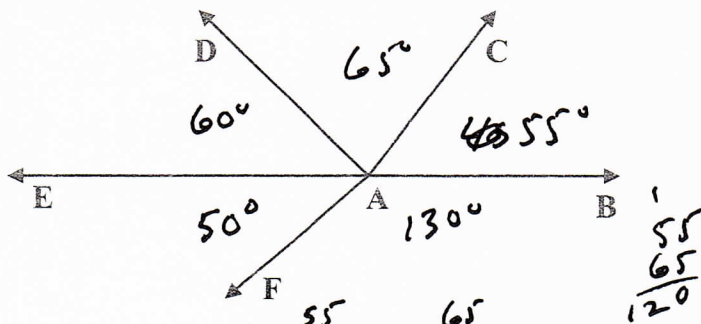
b.) 3

c.) 2

d.) 9

$$3 + 6 = 9$$

5.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:



Angle Measures:

$\angle CAB = 55^\circ$

$\angle CAD = 65^\circ$

$\angle DAE = 60^\circ$

$\angle EAF = 50^\circ$

$\angle FAB = 130^\circ$

$$\begin{array}{r} 130 \\ - 65 \\ \hline 65 \end{array}$$

What is the SUM of $\angle CAB$ and $\angle CAD$, and the DIFFERENCE of $\angle FAB$ and $\angle CAD$?

f.) 115° and 65°

g.) 105° and 55°

h.) 120° and 55°

j.) Not Here

120 and 65

6.) What is the value of the "4" and the "8" in the following number? 57,134,219.281

a.) (4×100) and (8×0.01)

b.) $(4 \times 1,000)$ and 0.08

c.) 4,000 and $8 \times \frac{1}{100}$ d.) b and c are correct

7.) Jenkins Accounting had fixed expenses equaling 200 dollars and variable expenses of 300 dollars. The company had revenues of 1,050 dollars. What was Jenkins Accounting's profit?

f.) 650

g.) 550

h.) 1,550

j.) 850

$$\begin{array}{r} 1,050 \\ - 500 \\ \hline 550 \end{array}$$

Name: SOLUNON

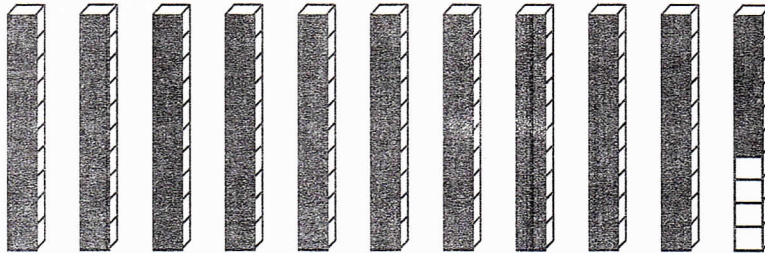
4th Grade Math STAAR Warm-up Number 22

- 1.) Luis spent 417 dollars on a Easter present for his mother and 4 books. He spent 305 dollars on the Easter day present for his mother. Each book cost the same amount of money. How much did Luis spend on each book?

- f.) 180.50 dollars, $417 + 305 = 722$ and $722 \div 4 = 180.50$
 g.) 2,888 dollars, because $417 + 305 = 722$ and $722 \times 4 = 2,888$
 h.) 28 dollars, because $417 - 305 = 112$ and $112 \div 4 = 28$ ✓
 j.) Not Here

$$\begin{array}{r} 417 \\ - 305 \\ \hline 112 \end{array} \quad \begin{array}{r} 28 \\ 4 \overline{) 112} \\ \underline{8} \\ 32 \end{array}$$

- 2.) The model below is shaded to represent a decimal.



$$10\frac{6}{10} = 10.6$$

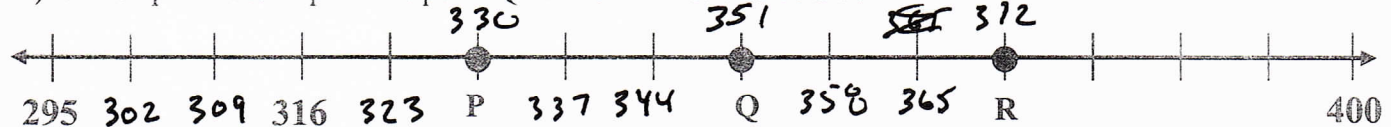
Which decimal does the model represent?

- a.) ten and sixty tenths b.) ten hundred six c.) ten and six tenths d.) one hundred six tenths
- 3.) The fixed expenses each month for Soriano Ballet classes are 3,000 dollars for rent and 300 dollars for shoes. The variable expenses were 10 dollars per student. 70 student attended classes last month. What is the total expenses for Soriano Ballet last month?

- f.) 3,300 dollars g.) 4,000 dollars h.) 3,310 dollars j.) 3,380 dollars

$$\begin{array}{r} 3,000 \\ + 300 \\ + 380 \\ \hline 3,680 \end{array}$$

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



- a.) 351 b.) 330 c.) 358 d.) 372

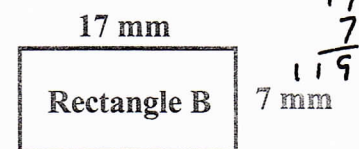
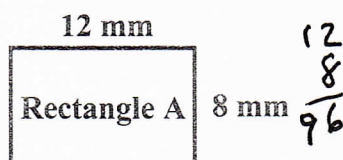
- 5.) Andreas has 9 crates with 5 items in each box. Which number sentence **CANNOT** be used to find the number of total items in the nine crates?

- f.) $5 \times 9 = \square$ h.) $\square \div 5 = 9$ g.) $\square + 5 = 9$ j.) $9 \times 5 = \square$

- 6.) Latrese has \$ 235.98 in his pocket. What digit or number is in the tenths place?

- a.) 3 b.) 9 c.) 5 d.) 8

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



$$\begin{array}{r} 119 \\ + 96 \\ \hline 215 \end{array}$$

What is the sum of the areas of Rectangle A and Rectangle B? 215 square millimeters (mm)²

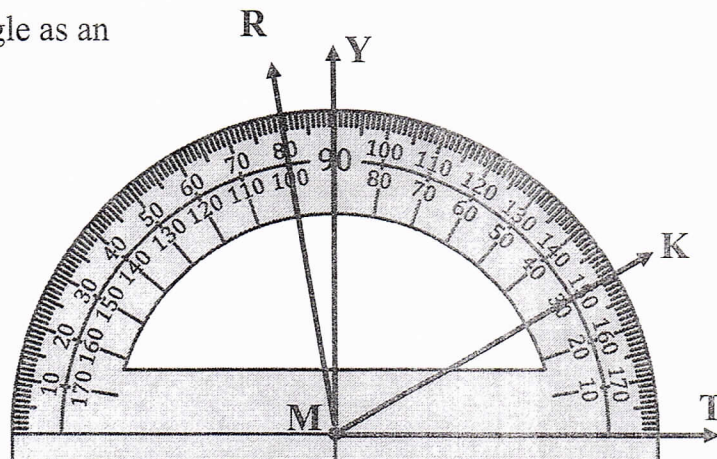
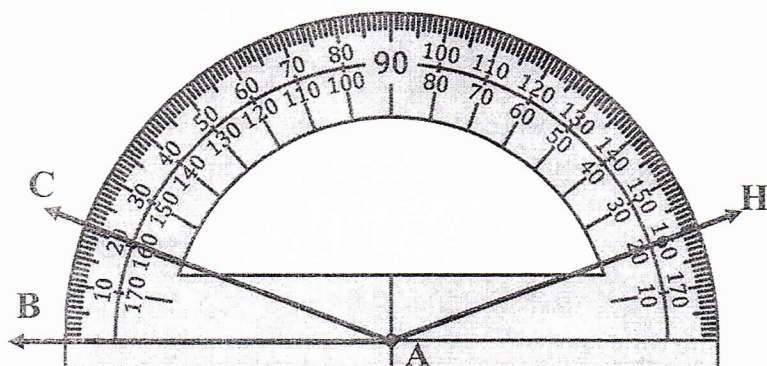
- 8.) Adriana sold flowers to her teachers. What was her **profit** if she had the following money transactions?

- Her total expenses were \$20.42.
- She sold 10 flowers for \$3 each.

- a.) \$ 52.42 b.) \$ 9.58 c.) \$ 10.48 d.) \$ 23.42

$$\begin{array}{r} 30.00 \\ - 20.42 \\ \hline 9.58 \end{array}$$

- 1.) What is the measure of each angle? Label the angle as an acute, right or an obtuse angle and the measure.



- A.) Angle BAC is an acute angle with a measure = 20 °
 B.) Angle BAH is an obtuse angle with a measure = 160 °
 C.) Angle TMR is an obtuse angle with a measure = 100 °
 D.) Angle TMY is a right angle with a measure = 90 °
 E.) Angle RMY is an acute angle with a measure = 10 °

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

| 1 WHOLE | | | | | | | |
|---------------|--|---------------|--|---------------|--|--|--|
| $\frac{1}{2}$ | | | | $\frac{1}{2}$ | | | |
| | | $\frac{1}{3}$ | | | | | |
| | | $\frac{1}{4}$ | | | | | |
| | | $\frac{1}{6}$ | | | | | |
| | | $\frac{1}{8}$ | | | | | |

Which list shows fractions in order from greatest to least?

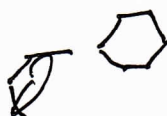
F.) $\frac{1}{3}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

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

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

- 3.) Which statement is true about a hexagon?

- A.) It has 6 sides and 5 vertices.
 B.) It has more vertices than sides.



- C.) It must have a right angle.
D.) The number of vertices equals the number of its sides.

$$\begin{array}{r} 20 \\ \times 12 \\ \hline 40 \\ 200 \\ \hline 240 \end{array}$$

- 4.) Ms. Sandoval's class placed 20 dozen cookies into 4 boxes. If she placed an equal number of cookies in each box, how many cookies are put in each box?

$$6 \times 240$$

$$240 \div 4 = 60$$

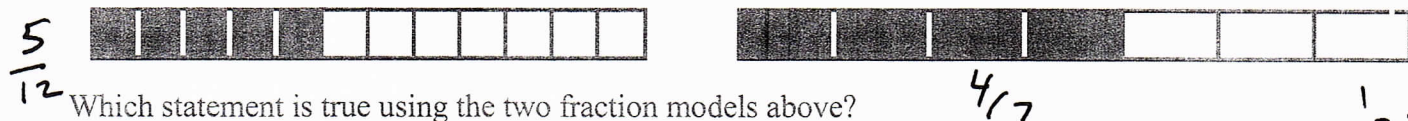
- F.) 40 cookies
 G.) 50 cookies
 Copyright © 2016, Celestial Numeracy

- H.) 60 cookies
 I.) 70 cookies
 Available at Formative Loop

Name: SOLUTION

4th Grade Math STAAR Warm-up Number 24

- 1.) Two models below are shaded to represent two different fractions.



Which statement is true using the two fraction models above?

F.) $\frac{5}{12} > \frac{4}{7}$

G.) $\frac{5}{12} < \frac{4}{7}$

H.) $\frac{4}{7} > \frac{5}{12}$

J.) $\frac{4}{7} = \frac{5}{12}$

- 2.) The picture below show the number of items in 6 boxes that Jenny has in her attic at home.



If Jenny opened the boxes and put the number of items into 7 equal groups, how many items would be in each group?

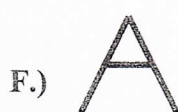
A.) 42

B.) 24

C.) 168

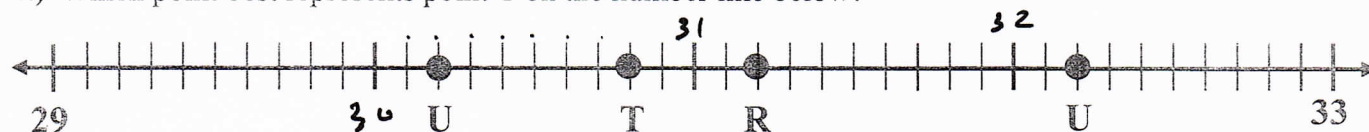
D.) 34

- 3.) Which figure shows only a picture of a single (90°) rotation of the Letter shown in the box?



J.) Not Here

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



A.) 30.2

B.) 30.3

~~C.) 31.8~~

D.) 30.8

- 5.) There are 32 bottles. Each bottle holds 48 ounces of vinegar. How many ounces of vinegar are in the 32 bottles?

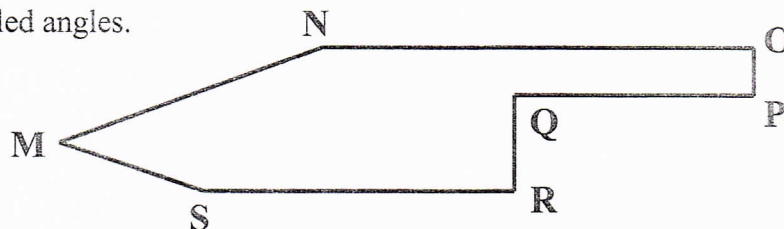
F.) 112

G.) 80

H.) 1536

J.) Not Here

- 6.) The figure below shows 8 labeled angles.



A.) List the angles that appear to be **acute** angles on the line. $\angle M$ (M)

B.) List the angles that appear to be **right** angles on the line. $\angle O, \angle P, \angle Q, \angle R$ (O, P, Q, R)

C.) List the angles that appear to be **obtuse** angles on the line. $\angle S, \angle N$ (S, N)

- 7.) Which best completes the expression $34 \times 10,000$?

A.) 340

B.) 3,400

C.) 340,000

D.) 34,000

- 1.) The model below is shaded to represent a fraction greater than 1.



$$5\frac{3}{6} = \frac{33}{6}$$

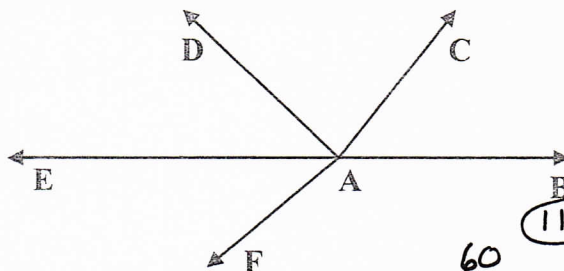
Which fraction is represented by this model?

- F.) $\frac{6}{33}$ because there are 6 figures and 33 sections are shaded.
- G.) $\frac{33}{2}$ because 33 sections are shaded and more than half the figures are shaded.
- H.) $\frac{33}{6}$ because 33 sections are shaded and each figure is divided into 6 equal sections.
- J.) $\frac{33}{5}$ because 33 sections are shaded of 5 figures that are completely shaded.
- 2.) The table below shows the total number of letters with different numbers of stamps.

| Letters | | |
|-------------------|------------|------------------------|
| Number of Letters | | Total Number of Stamps |
| 13 | $\times 4$ | 52 |
| 17 | $\times 4$ | 68 |
| 21 | $\times 4$ | 84 |
| 26 | $\times 4$ | 104 |

Which of the following describes the relationship in the table?

- A.) Total Number of Stamps + 29 = Number of Letters
- B.) Total Number of Stamps \times 4 = Number of Letters
- C.) Total Number of Stamps \div 4 = Number of Letters
- D.) Total Number of Stamps - 29 = Number of Letters
- 3.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:

Angle Measures:

- $\angle CAB = 55^\circ$
- $\angle CAD = 65^\circ$
- $\angle DAE = 60^\circ$
- $\angle EAF = 50^\circ$
- $\angle FAB = 130^\circ$

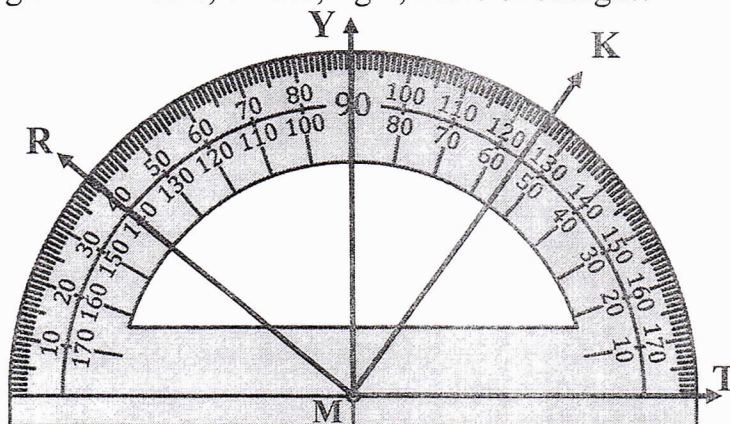
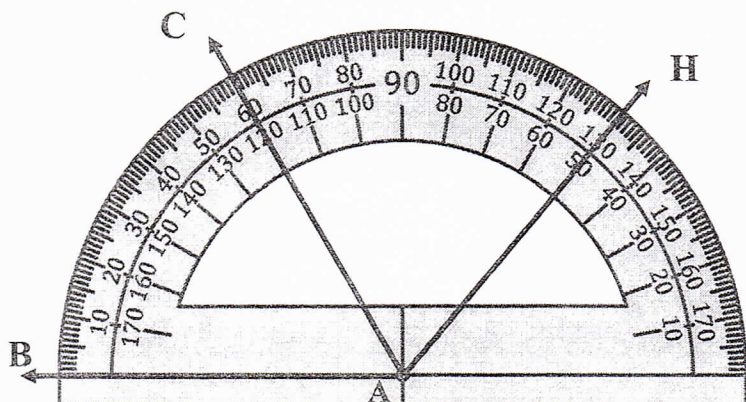
What is the sum of the adjacent angles $\angle DAE$ and $\angle EAF$ compared to a circle's total angle measure (360°)?

- F.) $105^\circ/360^\circ$ G.) $90^\circ/360^\circ$ H.) $110^\circ/360^\circ$ J.) $100^\circ/360^\circ$
- 4.) Ms. Johnson wants to place 24 pints of orange juice into 14 glasses. Each glass can hold 2 pints. Does Ms. Johnson have enough orange juice to fill the 14 glasses?
- A.) Yes. 14 glasses \div 2 pints each = 7 pints which is greater than 24 pints.
- B.) Yes. 14 glasses \times 2 pints each = 28 pints which is greater than 24 pints.
- C.) Yes. 14 glasses \times 24 pints each = 336 pints which is greater than 24 pints.
- D.) No. 14 glasses \times 2 pints each \div 14 glasses = 14 pints which is less than 24 pints.

- 5.) The decimal number
- 34.298
- is written on the board. Which digits are in the tens and hundredths place?

- F.) 3 and 9 G.) 4 and 2 H.) 2 and 9 J.) 3 and 8

- 1.) What is the measure of each angle? Label the angle as an acute, obtuse, right, acute or straight?



- A.) Angle BAC is an acute angle with a measure = 60 °
 B.) Angle BAH is an obtuse angle with a measure = 130 °
 C.) Angle TMR is an obtuse angle with a measure = 140 °
 D.) Angle TMY is a right angle with a measure = 90 °
 E.) Angle RMY is an acute angle with a measure = 50 ° $90 - 40 = 50^\circ$

- 2.) The model below is shaded to represent a fraction greater than 1 whole.

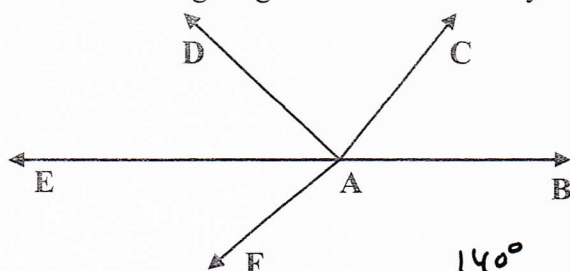


$$4\frac{3}{6} = \frac{27}{6}$$

Which fraction is represented by this model?

- F.) $\frac{5}{27}$ because there are 5 figures and 27 sections are shaded.
 G.) $\frac{27}{2}$ because 27 sections are shaded and more than half the figures are shaded.
 H.) $\frac{6}{27}$ because 27 sections are shaded and each figure is divided into 6 equal sections.
 J.) $\frac{27}{6}$ because 27 sections are shaded and each figure is divided into 6 equal sections.

- 3.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:



Angle Measures:

- $\angle CAB = 50^\circ$
 $\angle CAD = 60^\circ$
 $\angle DAE = 45^\circ$
 $\angle EAF = 40^\circ$
 $\angle FAB = 140^\circ$

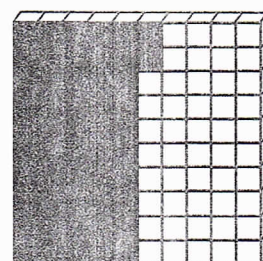
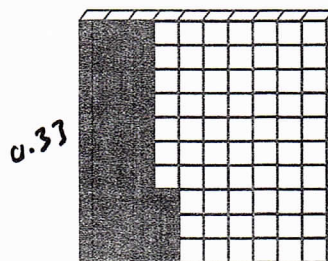
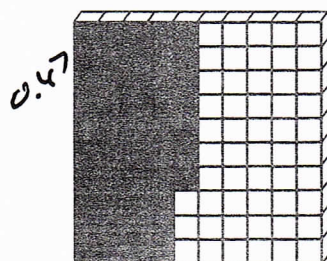
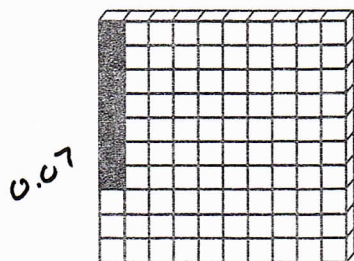
What is the sum of the adjacent angles $\angle FAB$ and $\angle EAF$ compared to a circle's total angle measure (360°)?

- A.) $110^\circ/360^\circ$ B.) $170^\circ/360^\circ$ C.) $180^\circ/360^\circ$ D.) $195^\circ/360^\circ$

Name: Solution

4th Grade Math STAAR Warm-up Number 27

1.) The shaded models below represent four different decimal numbers.



Which list shows these decimal numbers in order from greatest to least?

a.) 0.07 0.47 0.52 0.33

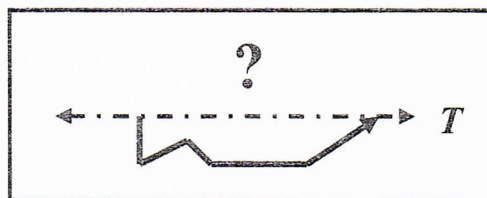
b.) 0.52 0.47 0.33 0.7

c.) 0.07 0.33 0.47 0.52

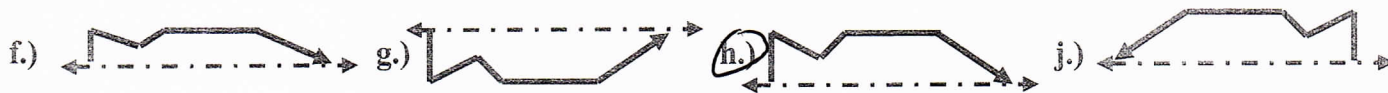
d.) 0.52 0.47 0.33 0.07

$$0.52 > 0.47 > 0.33 > 0.07$$

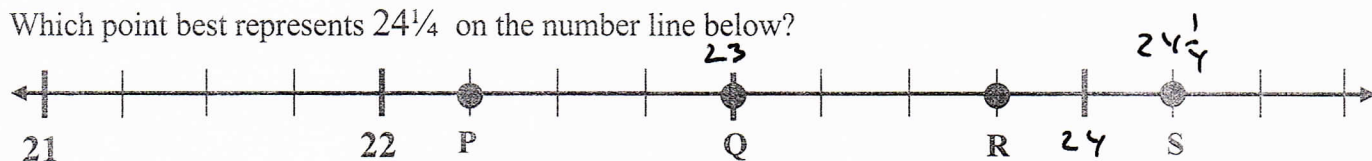
2.) The bottom part of a figure is shown. The top part is missing. Line T is a line of symmetry.



Which of the following shows the top part of the figure?



3.) Which point best represents $24\frac{1}{4}$ on the number line below?



a.) Point P

b.) Point Q

c.) Point R

d.) Point S

4.) A three dimensional figure is shown below. How many more edges than faces does this figure have?

$$\begin{aligned} E &= 6 \\ F &= 4 \\ \frac{6}{2} &= 3 \end{aligned}$$



Name the pyramid shown to the left: Triangular pyramid

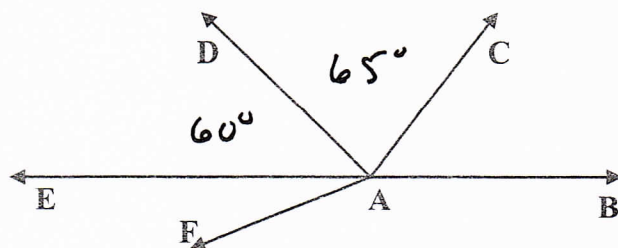
f.) 2

h.) 4

g.) 10

j.) Not Here

5.) Given the following diagram of a series of rays that make angles \angle with an origin labeled point A:



$$\frac{125^\circ}{360^\circ}$$

Angle Measures:

$\angle CAB = 55^\circ$

$\angle CAD = 65^\circ$ ✓

$\angle DAE = 60^\circ$ ✓

$\angle EAF = 50^\circ$

$\angle FAB = 130^\circ$

Find the sum of the adjacent angles $\angle CAD$ and $\angle DAE$ compared to a circle's total angle measure (360°)?

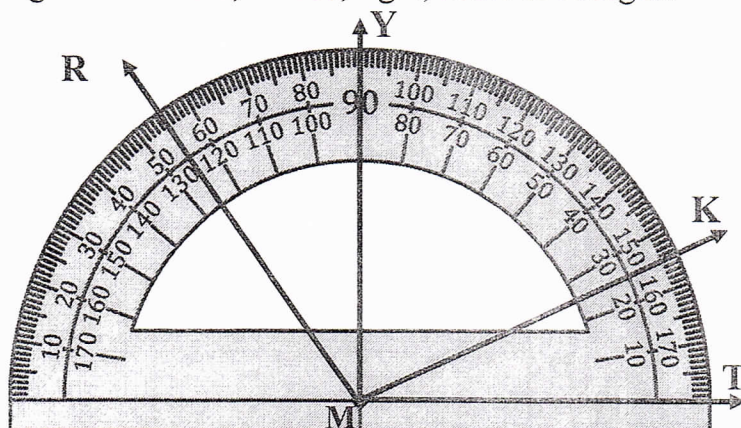
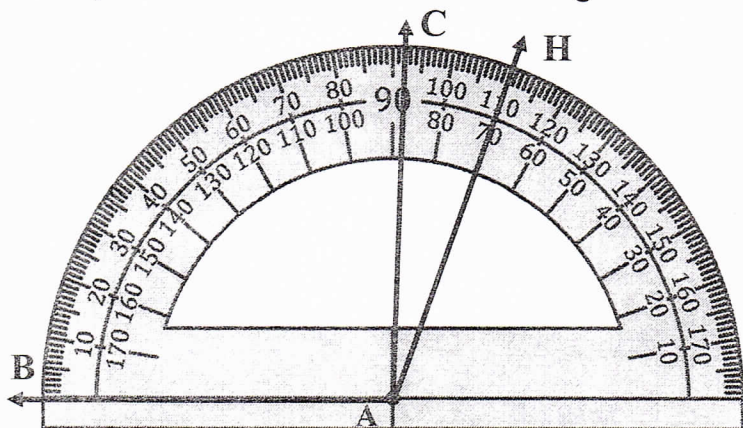
a.) $125^\circ/360^\circ$

b.) $125^\circ/360^\circ$

c.) $130^\circ/360^\circ$

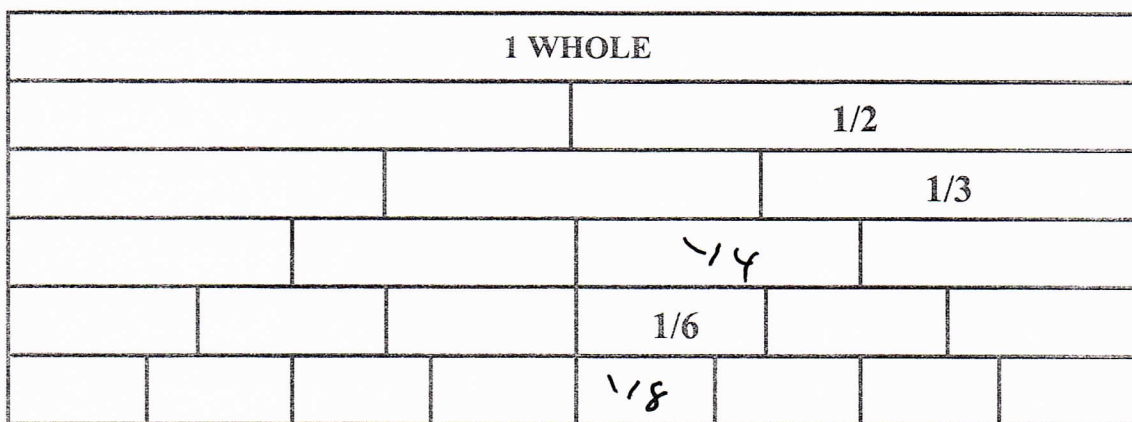
~~d.) Not Here~~

- 1.) What is the measure of each angle? Label the angle as an acute, obtuse, right, acute or straight?



- A.) Angle BAC is an obtuse angle with a measure = 92 °
 B.) Angle BAH is an obtuse angle with a measure = 110 °
 C.) Angle TMR is an obtuse angle with a measure = 125 °
 D.) Angle TMY is a right angle with a measure = 90 °
 E.) Angle YMK is an acute angle with a measure = 25 °

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



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

- 3.) Which statement is true about a quadrilaterals?

A.) They all have 4 sides and 4 vertices.

C.) They *may* have a right angle.

B.) They could be a trapezoid, square, or rectangle.

D.) All answers are true of quadrilaterals

- 4.) Jesus' father's truck weighs 3 tons. His best friend's dad's car weighs 4,035 pounds. What is the difference between these two weights in pounds?

F.) 4,032 pounds

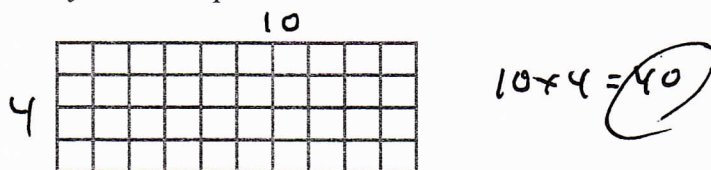
G.) 9,665 pounds

H.) 10,035 pounds

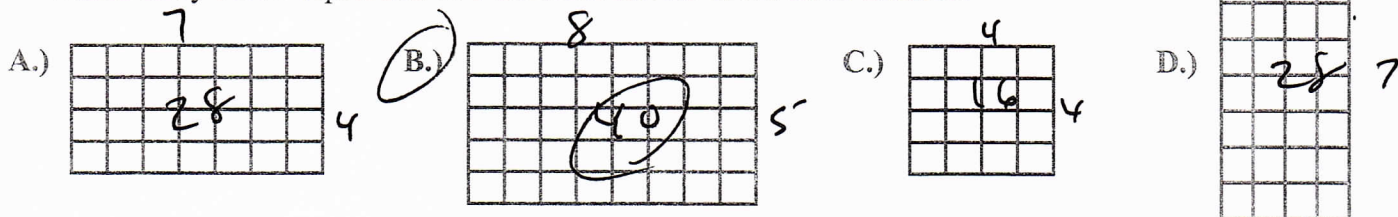
J.) Not Here

$$\begin{array}{r} 6,000 \\ -4,035 \\ \hline 1,965 \end{array}$$

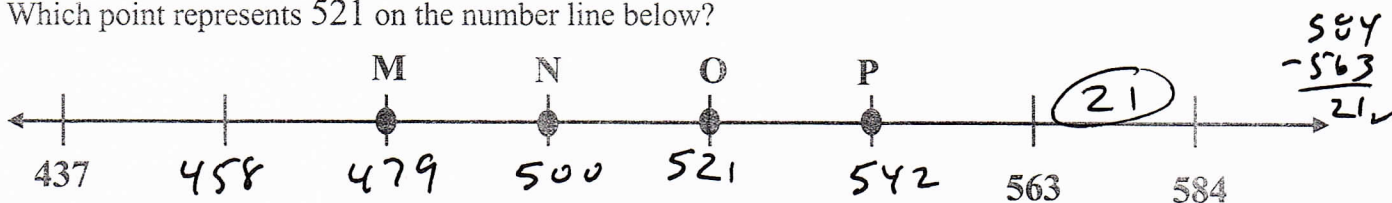
- 1.) The length and width of the array below represent two factors of a number?



Which array below represents two different factors of the same number?



- 2.) Which point represents 521 on the number line below?



F.) Point M

G.) Point N

(H.) Point O

J.) Point P

- 3.) There are 360 students at Robert F. Kennedy Middle School? All students are required to be ^{on} in the schools' soccer teams. The same number of players are on each team. Which group of teams could NOT describe the soccer teams at the Middle School?

- A.) ☒ 12 teams with 30 players on each team. $\begin{array}{r} 30 \\ \times 12 \\ \hline 360 \end{array}$ C.) ☒ 10 teams with 36 players on each team.
 B.) ☒ 15 teams with 22 players on each team. $\begin{array}{r} 22 \\ \times 15 \\ \hline 330 \end{array}$ D.) ☒ 9 teams with 40 players on each team.

- 4.) A financial institution may be a bank or a credit union. Andreas walked into his bank. What service does Andreas' bank not offer him?

- F.) Offer him loans of money with interest that he will pay back to put a new roof on his business.
 G.) Offer to pay him interest on money that he puts in the bank in his savings account.
 H.) ☒ Offer suggestions on how he should spend his money that he receives from working at his job.
 J.) Offer him cash from his savings account where he has deposited money over a long period of time.

- 5.) Bill has a \$10 dollar bill, 2 quarters, 1 dime and 7 nickels. She purchased a poster the cost \$ 6.28. How much money does he have left?

- (A.) \$ 4.67 B.) \$ 4.77 C.) \$ 4.57 D.) \$ 5.67

$$\begin{array}{r} 10.95 \\ - 6.28 \\ \hline 4.67 \end{array}$$

- 6.) Angle 1 and angle 2 form a right angle. Angle 2 has a measure of 56°

What is the measure of angle 1?

A.) 44°

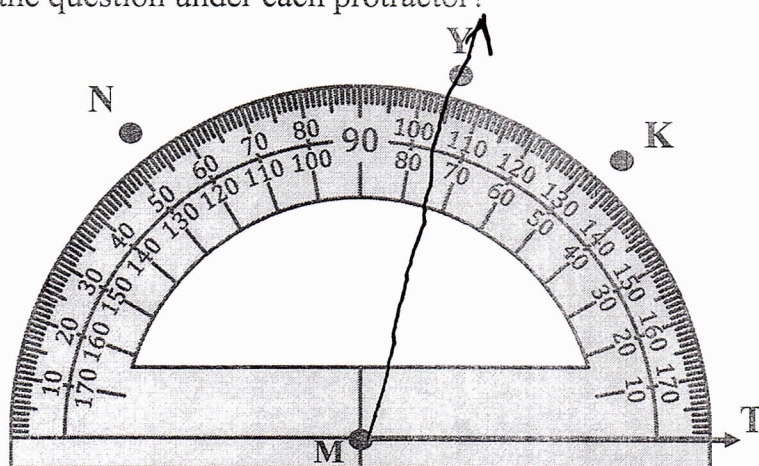
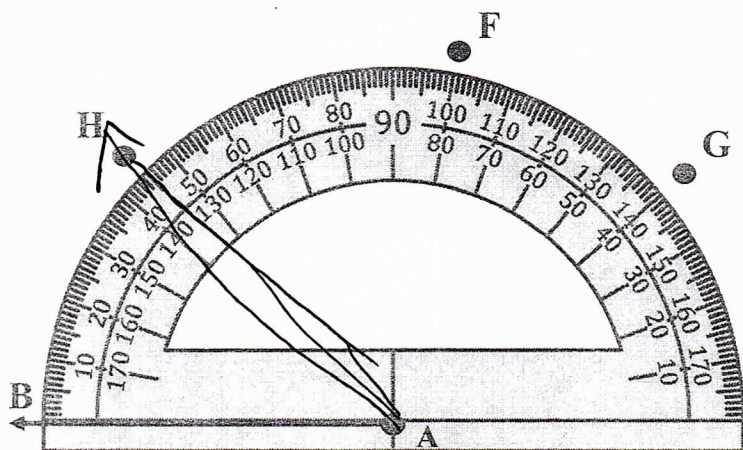
B.) 146°

(C.) 34°

D.) 24°



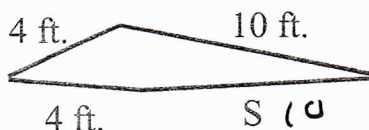
- 1.) The two protractors are shown below. Answer the question under each protractor?



- A.) To complete an angle with a measure of 45° , a ray must connect to one of three points. That ray should connect from point A to Point H. Draw the ray.
- B.) To complete an angle with a measure of 105° , a ray must connect to one of three points. That ray should connect from point M to Point Y. Draw the ray.

- 2.) What is the length "S" of the missing side of the quadrilateral if the perimeter is 28 feet in length?

$$\begin{array}{r} 28 \\ - 18 \\ \hline 10 \end{array}$$



$$S = \underline{10} \text{ feet}$$

- 3.) Which space figure has exactly 5 vertices?

- A.) Rectangular Prism
B.) Triangular Prism

- ☒ C.) Rectangular Pyramid
D.) Triangular Pyramid



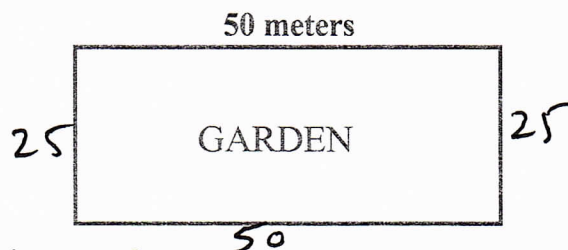
- 4.) Which figure cannot have parallel line segments?

- F.) Rectangle G.) Pentagon

- ☒ H.) Triangle

- ☒ I.) Hexagon

- 5.) The garden below was designed in the shape of a rectangle. It has length of 50 meters. The perimeter of the garden is 150 meters.



$$\begin{array}{r} 150 \\ - 100 \\ \hline 50 \end{array} \quad \begin{array}{r} 25 \\ 2 \overline{) 50} \end{array}$$

What is the width of the garden in meters?

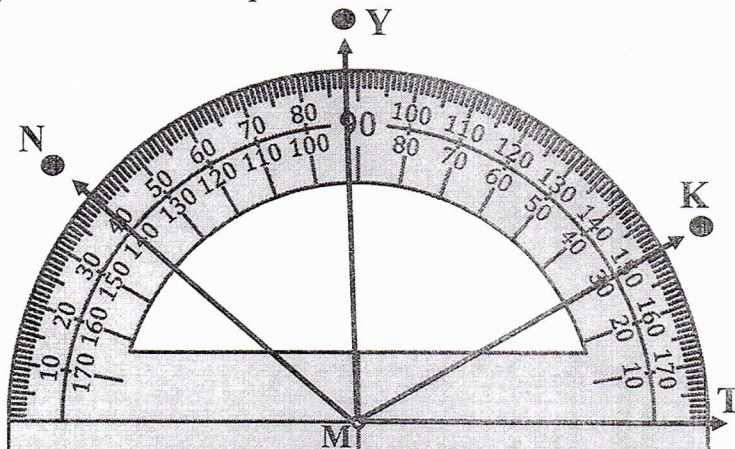
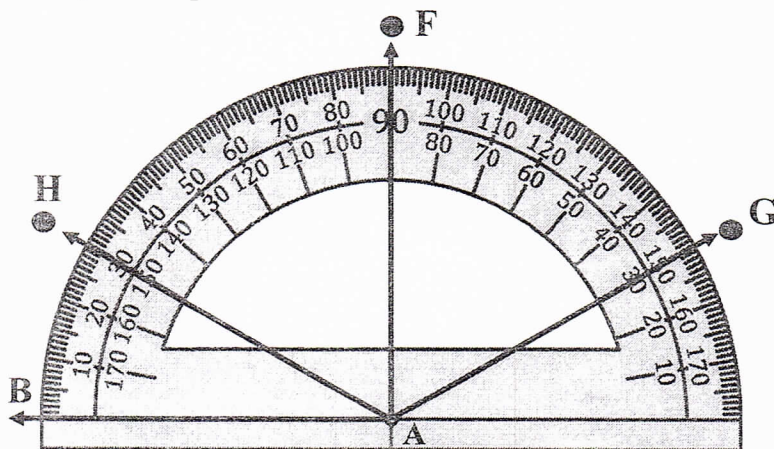
- A.) 50 meters ☒ B.) 25 meters C.) 10 meters D.) 30 meters

- 6.) If the rectangular garden in problem 5.) above has a length of 15 meters and a width of 10 meters, what is the area of the garden?

$$15 \times 10 = 150$$

- ☒ A.) 150 square meters B.) 250 square meters C.) 100 square meters D.) Not here

1.) Two protractors are shown below. Answer the question under the protractors.



- A.) Angle BAH is an acute angle with a measure = 30 °
- B.) Angle BAG is an obtuse angle with a measure = 150 °
- C.) Angle GAF is an acute angle with a measure = 60 ° $90 - 30 = 60$
- D.) Angle KMT is an acute angle with a measure = 30 °
- E.) Angle YMT is an right angle with a measure = 90 °
- F.) Angle NMK is an obtuse angle with a measure = 110 ° $140 - 30 = 110$
- G.) Angle NMT is an obtuse angle with a measure = 140 °

2.) Gail described a number using these clues.

- The value of digit 3 is (3×100) - The value of digit 6 is (6×0.01) - The value of digit 7 is $(7 \times 1,000)$

Which number below could fit her description?

- A.) 72,384.06
- B.) 97,385.06 ✓ $300 \quad \frac{6}{100} \quad 7,000$
- C.) 87,934.06 ✗
- D.) 7,983.06 ✗

3.) Kendall opened a fruit stand at the park. She bought – her cost – the fruit for \$ 13.47 at the local grocery store. The money she received – her revenue – was \$ 26.56. What was Kendall's profit?

- F.) \$12.09
- G.) \$13.09 ✓ $26.56 - 13.47 = 13.09$
- H.) \$14.09
- J.) \$13.11

4.) A square garden has a side equal to 37 yards. What is the square garden's perimeter in yards?

- A.) 145 yards
- B.) 74 yards
- C.) 148 yards ✓ $37 \times 4 = 148$
- D.) 37 yards

5.) Mr. Dolan purchased two hotdogs. He divided each hotdog in half. He ate 3 of the half hotdogs. Which fraction represents the hotdog amount Mr. Dolan ate?



- F.) $\frac{3}{4}$
- G.) $\frac{4}{3}$
- H.) $\frac{3}{2}$ ✓
- J.) $\frac{2}{4}$

- 1.) A classroom desk has a mass of 10 kg. Which object has a mass closest to the mass of a desk?
☒ A.) 20 bottles (16 oz.) water B.) motorcycle C.) a 4th grader D.) a school principal
- 2.) The number 581.03 can be expressed in expanded form as?

- F.) $(5 \times 100) + (8 \times 100) + (1 \times 1) + (0 \times 0.1) + (3 \times 0.01)$
 G.) $(5 \times 10) + (8 \times 100) + (1 \times 1) + (3 \times 0.1) + (0 \times 0.01)$
☒ H.) $(5 \times 100) + (8 \times 10) + (1 \times 1) + (0 \times 0.1) + (3 \times 0.01)$
 J.) $(5 \times 1,000) + (8 \times 100) + (1 \times 1) + (0 \times 0.1) + (3 \times 0.01)$

$$\begin{array}{r} 45 \\ \times 3 \\ \hline 135 \end{array}$$

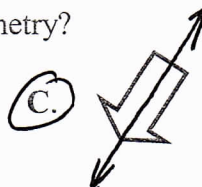
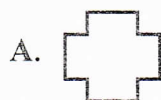
- 3.) Olga, Mabel, Yadira, Kisling and Alisa measured 45 yards on the playground. How many equivalent feet is their measurement of 45 yards?
 A.) 90 feet B.) 22.5 feet ☒ C.) 135 feet D.) 15 feet

- 4.) Griselda has 152 small dolls in her collection. Griselda has 8 shelves where she places her dolls. If she places an equal number of dolls on each shelf, how many dolls are on each shelf?

- ☒ F.) 19 dolls G.) 1,216 dolls H.) 190 dolls J.) 160 dolls

$$\begin{array}{r} 19 \\ 8 \overline{) 152} \\ \underline{8} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

- 5.) Which figure appears to have ONLY 1 line of symmetry?



- 6.) Samantha made pancakes for the Padron Elementary teacher breakfast.

- $\frac{4}{9}$ of the pancakes were buttermilk.
- $\frac{3}{9}$ of the pancakes were banana.

If the rest of the pancakes that Samantha made were chocolate chip, what is the fraction of pancakes that were chocolate chip pancakes?

A. $\frac{7}{9}$ because $\frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

B. $\frac{1}{9}$ because $\frac{4}{9} - \frac{3}{9} = \frac{1}{9}$

C. $\frac{16}{9}$ because $\frac{4}{9} + \frac{3}{9} = \frac{7}{9}$ and $\frac{9}{9} + \frac{7}{9} = \frac{16}{9}$

☒ D. $\frac{2}{9}$ because $\frac{4}{9} + \frac{3}{9} = \frac{7}{9}$ and $\frac{9}{9} - \frac{7}{9} = \frac{2}{9}$

- 7.) Davina has 24 pizzas. Melinda has half as many hamburgers as Davina has pizzas. Andreas has double the number of hotdogs that Davina has pizzas. How many of food items does each person have?

g.) Davina = 24, Melinda 12, Andreas = 36

f.) Davina = 24, Melinda 48, Andreas = 12

h.) Davina = 24, Melinda 36, Andreas = 12

☒ i.) Davina = 24, Melinda 12, Andreas = 48

- 1.) Johnny gets off work each day at 5:20 PM. It takes him between 37 to 55 minutes to drive home. What is a reasonable time he gets home each night after driving home?

A.) 5:55 PM ✗ B.) 6:55 PM ✗ C.) 5:59 PM ✓ D.) 6:35 PM ✗

- 2.) Which statement is true about the number: 835,491.27?

F.) The digit 9 has a value of (9×100)

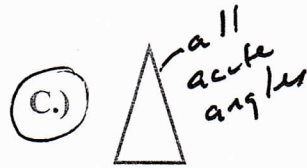
G.) The digit 5 has a value of $(5 \times 10,000)$

H.) The digit 2 has a value of (2×0.1)

J.) The digit 3 has a value of $(3 \times 100,000)$

$$\begin{array}{r} 5:20 \\ 37 \\ \hline 5:57 \end{array} \quad \begin{array}{r} 5:20 \\ 55 \\ \hline 6:15 \\ 60 \\ \hline 6:15 \end{array}$$

- 3.) Which triangle appears to be an acute triangle?



- 4.) Which comparison of fractions is true?

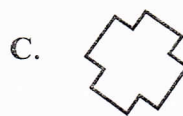
F.) $\frac{18}{5} > \frac{3}{9}$

G.) $\frac{48}{9} < \frac{5}{12}$

H.) $\frac{10}{3} > \frac{4}{5}$

J.) $\frac{36}{7} = \frac{5}{9}$

- 5.) Which figure appears to have more than 2 lines of symmetry?



- 6.) James made cookies for the Graham Elementary carnival.

- $\frac{4}{8}$ of the cookies were pecan.
- $\frac{3}{8}$ of the cookies were peanut butter.

If the rest of the cookies that James made were chocolate chip, what is the fraction of cookies that were NOT chocolate chip **with** the correct explanation?

A.) $\frac{7}{8}$ because $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

B. $\frac{1}{8}$ because $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$

C. $\frac{15}{8}$ because $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$ and $\frac{8}{8} + \frac{7}{8} = \frac{15}{8}$

D. $\frac{1}{8}$ because $\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$ and $\frac{8}{8} - \frac{7}{8} = \frac{1}{8}$

- 7.) Betty has 32 tacos. Priscilla has half as many ¹⁶ sandwiches as Betty has tacos. Luis has triple the number of burgers that Priscilla ⁴⁸ has sandwiches. How many of food items does each person have?

h.) Betty = 32, Priscilla 64, Luis = 192

f.) Betty = 32, Priscilla 16, Luis = 64

i.) Betty = 32, Priscilla 16, Luis = 48

k.) Betty = 32, Priscilla 12, Luis = 36

- 1.) Janna goes work each morning at 6:10 AM. It takes her between 35 to 65 minutes to drive there. What is a reasonable time she arrives at work each morning?

6:40 - 7:15

A.) 6:30 AM B.) 7:31 AM C.) 6:35 AM D.) 7:10 AM

- 2.) Victor bought a new truck. He did not pay cash. He financed the car so he would make the same monthly payments until the truck was paid off. What kind of an expense are new car and truck payments?

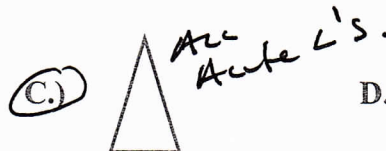
F.) Variable Expense

G.) Fixed Expense then a Variable Expense

H.) Fixed Expense

J.) An expense I wish I did not have!

- 3.) Which triangle appears to be a right triangle?



- 4.) Which comparison of fractions is true?

F.) $\frac{1}{5} > \frac{3}{4}$

G.) $\frac{2}{9} < \frac{5}{11}$

H.) $\frac{1}{3} > \frac{2}{5}$

J.) $\frac{4}{9} = \frac{3}{9}$

- 5.) The distance between a school building and its playground is 450 feet. What is this distance in yards?

A. 1,350 yards

B. 1,050 yards

C.) 150 yards

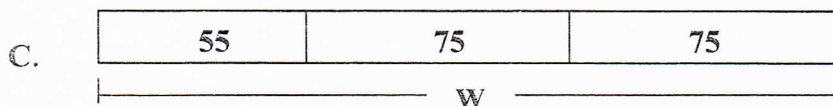
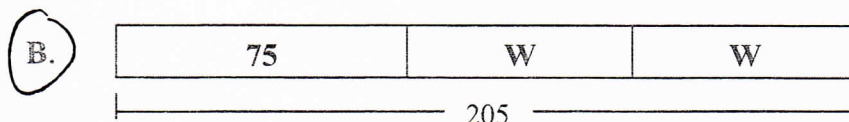
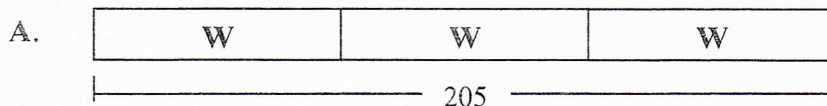
D. 15 yards

$$\begin{array}{r} 150 \\ 3 \overline{)450} \end{array}$$

- 6.) Joe read a total of 205 pages in three days.

- On the first day, he read 75 pages.
- On the second and third days, he read the same number of pages.

Which diagram shows a way to find W, the number of pages Joe read on the third day?



$$\begin{array}{r} 421.15 \\ 195.15 \\ \hline 226.00 \end{array}$$

$$\begin{array}{r} 150.00 \\ + 45.15 \\ \hline 195.15 \end{array}$$

- 7.) Brendan made \$ 421.15 from selling three old computers. He had the following expenses from repairing the old computers: 150 dollars paying a computer repairman and \$45.15 for hard drives. What was his profit?

f.) \$ 226.30

g.) 228.00

k.) \$ 226.00

i.) Not Here

- 1.) Jack has a bucket of water that is $4\frac{7}{100}$ full. Which decimal is equivalent to this number?

A.) 4.70

B.) 4.7

C.) 4.07

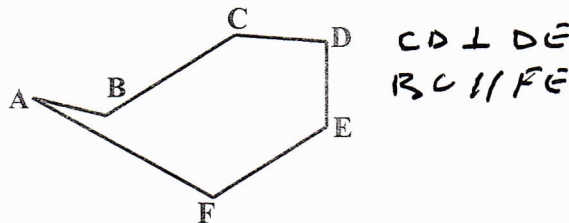
D.) 7.04

- 2.) Which line segments appear to perpendicular and which ones parallel in the figure? Choose two answers!

J.) Line segments BC & FE are parallel, and...

K.) Line segments AB & CD are parallel, and...

L.) Line segments AF & FE are perpendicular.

M.) Line segments CD & DE are perpendicular.

- 3.) Mary divided two sheets of paper into equal segments as shown below. The shaded portion represents what Mary used. What fraction of the rolls did Mary use?



Paper 1

 $\frac{3}{5}$ 

Paper 2

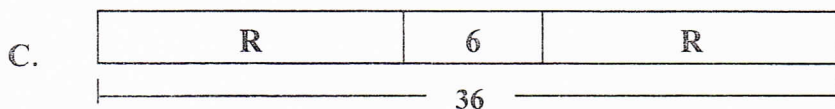
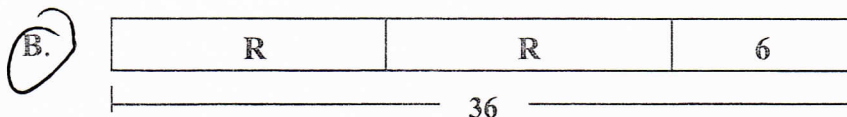
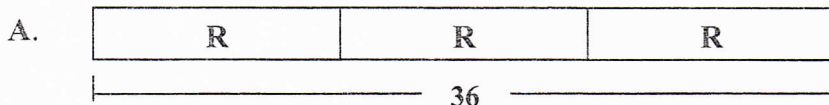
 $\frac{4}{5}$ F.) $\frac{3}{5}$ G.) $\frac{7}{5}$ H.) $\frac{4}{5}$ J.) $\frac{5}{7}$

$$\frac{3}{5} + \frac{4}{5} = \frac{7}{5}$$

- 4.) Gail ran each day for a total of 36 miles in 3 days.

- On the first and second day, she ran the same number of miles each day.
- On the third day, she ran the 6 miles.

Which diagram shows a way to find **R**, the number of miles Gail ran on the second day?



- 5.) The population of the United States is 323,069,000. What is this number in expanded form?

f.) 300,000,000 + 2,000,000 + 300,000 + 60,000 + 9,000

g.) 300,000,000 + 20,000,000 + 3,000,000 + 60,000 + 9,000

g.) 30,000,000 + 2,000,000 + 300,000 + 60,000 + 9,000

i.) 300,000,000 + 20,000,000 + 3,000,000 + 600,000 + 90,000

- 1.) The current population of the United States is 329,568,041. What is the value of the 3?

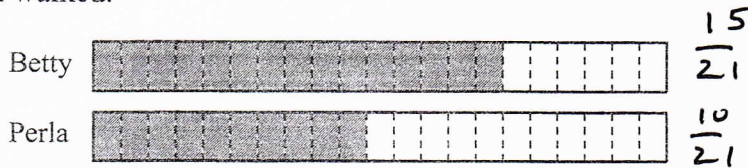
A.) 30,000,000

B.) 3,000,000

☒ C.) 300,000,000

D.) Not here

- 2.) Betty and Perla walked the same distance. The shaded part of each fraction represents the distance that each girl walked.



Which expression can be used to find the difference in the distance that Betty walked and the distance that Perla walked?

F.) $\frac{15}{21} + \frac{10}{21} = ?$

☒ G.) $\frac{15}{21} - \frac{10}{21} = ?$

H.) $\frac{21}{15} - \frac{21}{10} = ?$

J.) Not here

- 3.) What is the decimal equivalent of $\frac{40}{100}$? $0.4 = 0.40 = 0.400$

A.) 4.1

B.) 0.041

☒ C.) 0.4

D.) 41.41

4 dimes = $\frac{4}{10}$ ← equal
40 pennies = $\frac{40}{100}$ ← equal

- 4.) What do banks do for their customers?

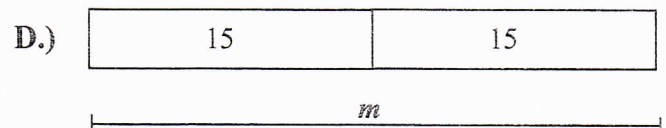
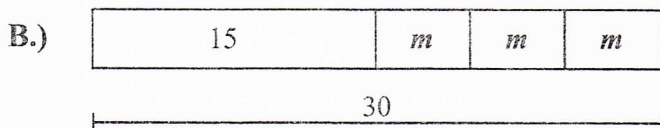
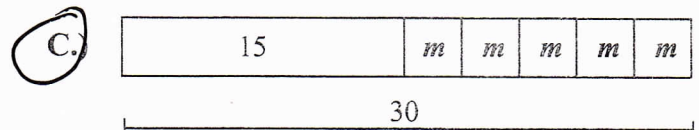
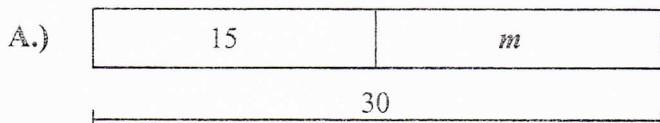
F.) They provide coupons to save money on groceries.

H.) They loan money to buy cars and houses.

☒ G.) They provide checking and savings accounts.

J.) Both H and G choices are correct

- 5.) Olga had 30 dollars last week. She gave half of the money to her sister. She gave the rest of the money to her 5 brothers. Each brother received the same amount. Which model accurately describes a way to find 'm' – how much money each brother received from Olga?



- 6.) A ray TU has been drawn on the protractor to the right.

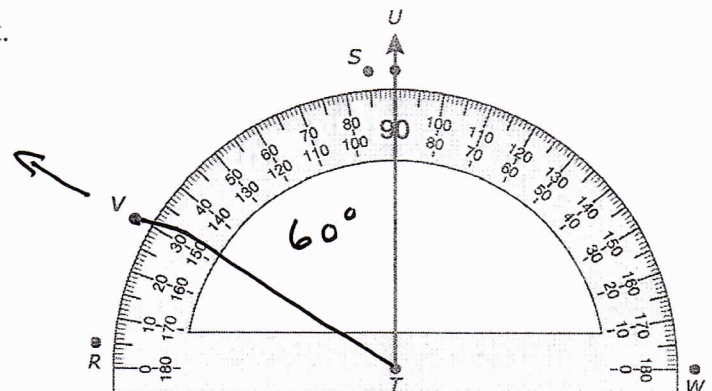
To construct an angle that has a measure of 60° , another ray can be drawn that starts at point T and passes through –

F.) Point R

H.) Point S

☒ G.) Point V

J.) Point W



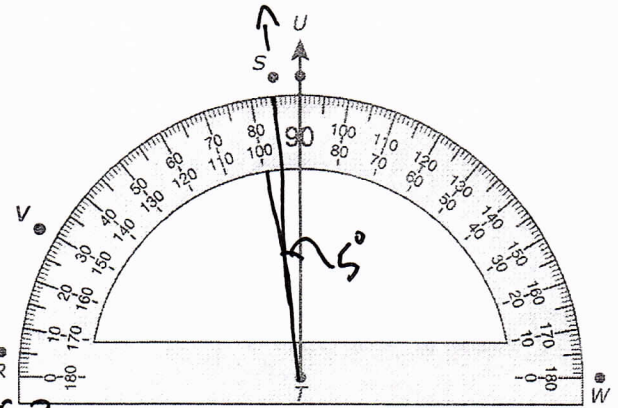
- 7.) Jesus has 4 bags. Each bag has 5 packs of gum in it. He put an equal number of the packs of gum into 3 boxes. How many packs of gum were left over? 2 packs of gum

$3 \overline{) 20} \text{ } ^{-2} \quad 20 - 18 = 2 \checkmark$

- 1.) A ray TU has been drawn on the protractor to the right.

To construct an angle that has a measure of 5° , another ray can be drawn that starts at point T and passes through –

- F.) Point R H.) Point S
G.) Point V J.) Point W



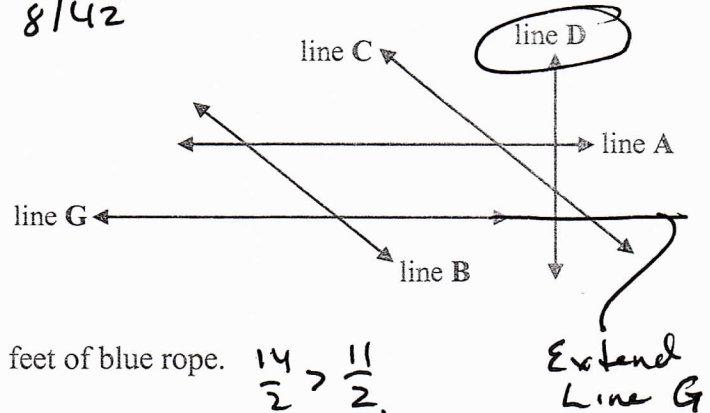
- 2.) Carl has 7 bags. Each bag has 6 small toys in it. He put an equal number of the toys into 8 boxes. How many toys were left over?

2 toys

$$8 \overline{) 42} 2$$

- 3.) What line is perpendicular to line G?

- A.) line A C.) line C
B.) line B D.) line D



- 4.) Alisa has $5\frac{1}{2}$ feet of red rope. She also has $\frac{14}{2}$ feet of blue rope.

What comparison can be made between the red and the blue rope?

$$\frac{14}{2} > \frac{11}{2}$$

Extend Line G

- F.) $5\frac{1}{2} < \frac{14}{2}$ G.) $5\frac{1}{2} = \frac{14}{2}$ H.) $5\frac{1}{2} > \frac{14}{2}$ J.) None of these.

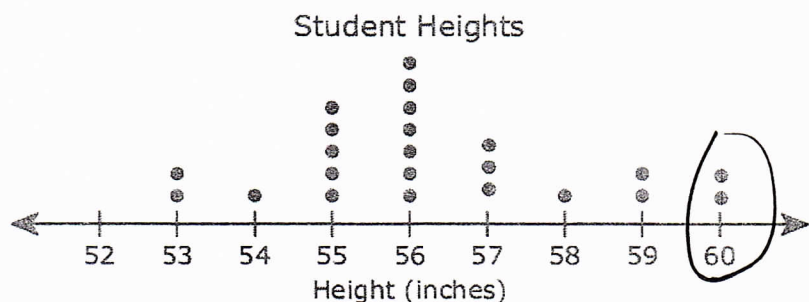
- 5.) What fraction is equivalent to the decimal 1.8? $1\frac{8}{10}$ but $1 = \frac{10}{10}$ $\therefore \frac{10}{10} + \frac{8}{10} = \frac{18}{10}$

- A.) $\frac{10}{18}$ B.) $\frac{18}{2}$ C.) $\frac{18}{12}$ D.) $\frac{18}{10}$

- 6.) The table shows the heights of students in Ms. Garcia's 5th grade classroom.

A dot plot was constructed to show this data. But, there is a mistake on the dot plot.

| Student Heights | |
|-----------------|--------------------|
| Height (inches) | Number of Students |
| 53 | II |
| 54 | I |
| 55 | IIII |
| 56 | IIII II |
| 57 | III |
| 58 | I |
| 59 | II |



At what height is the mistake on the dot plot? 60 inches

\Rightarrow NO DATA FOR 60

- 7.) Vanessa has 3 gallons and 2 quarts of water. Jenny has 2 gallons and 3 quarts of water. What is the sum of water that the girls have in gallons and quarts?

5 gallons 5 quarts = 6 gal and 1 qt

- F.) 5 gallons and 4 quarts G.) 6 gallons and 1 quart H.) 6 quarts J.) The answer is not here.

- 1.) Mr. Phillips' garden is 32 feet long and 28 feet wide. What is the area of Mr. Phillips' garden?

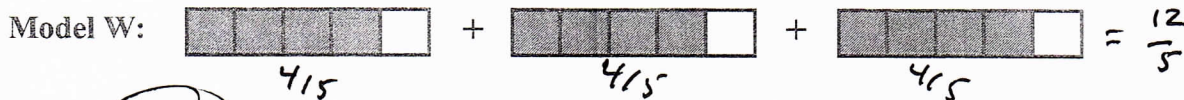
32
x 28
896

A.) 886 square feet **B.) 896 square feet** C.) 786 square feet D.) 566 square feet

- 2.) The model to the right represents one whole.



Model W is shaded to represent a number greater than one.

Which expression cannot be used to represent this number for Model W?

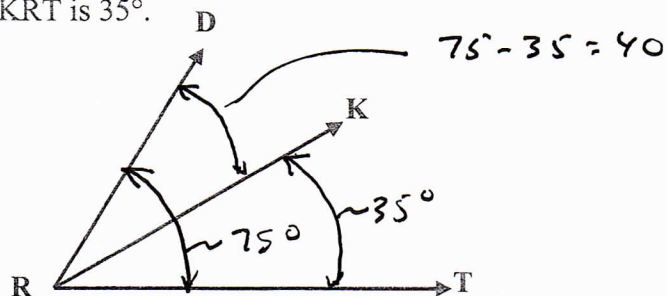
F.) $\frac{4}{5} + \frac{4}{5} + \frac{4}{5}$ G.) $\frac{5}{5} + \frac{5}{5} + \frac{2}{5}$ H.) $\frac{5}{5} + \frac{5}{5} + \frac{1}{5} + \frac{1}{5}$ **J.) $\frac{1}{5} + \frac{1}{5} + \frac{1}{5}$**

$\frac{12}{5}$ $\frac{12}{5}$ $\frac{12}{5}$ $\frac{3}{5}$

- 3.) The measure of angle DRT is
- 75°
- . The angle of KRT is
- 35°
- .

What is the measure of angle DRK?

A.) 110° **C.) 40°**
B.) 45° D.) Not here



- 4.) What expression has a quotient of about 8?

F.) $43 \div 7 = ?$ **G.) $25 \div 3 = ?$** H.) $55 \div 5 = ?$ J.) $63 \div 5 = ?$

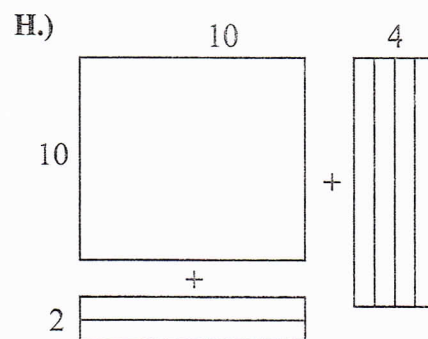
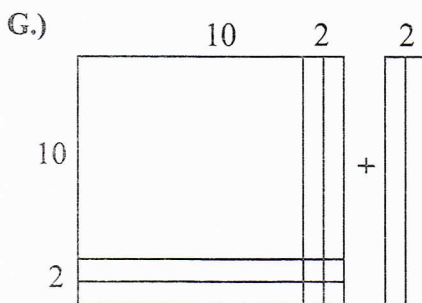
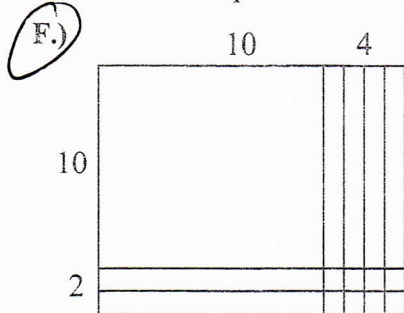
6 8 11 12/13

- 5.) Write the number 46,094.03 in expanded notation.

A.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 100) + (4 \times 1) + (3 \times 0.01)$
B.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 10) + (4 \times 1) + (3 \times 0.1)$
C.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 10) + (4 \times 1) + (3 \times 0.1)$
D.) $(4 \times 10,000) + (6 \times 1,000) + (9 \times 10) + (4 \times 1) + (3 \times 0.01)$


WRITE OUT
AND MATCH!

- 6.) Which model represents
- 12×14
- ?






- 7.) Find the difference and sum of 4,571.15 and 209.8

Difference: 4,361.35Sum: 4,780.95

- 1.) The model to the right represents one whole.
- 

Model C is shaded to represent a number greater than one.

Model C:  +  +  = $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{6}{3}$

Which expression cannot be used to represent this number for Model C?

F.) $\frac{2}{3} + \frac{2}{3} + \frac{2}{3}$
 $\frac{6}{3}$

G.) $\frac{3}{3} + \frac{3}{3}$
 $\frac{6}{3}$

H.) $\frac{1}{3} + \frac{2}{3} + \frac{1}{3} + \frac{1}{3}$
 $\frac{5}{3}$

J.) $\frac{2}{3} + \frac{1}{3} + \frac{3}{3}$
 $\frac{6}{3}$

- 2.) The measure of angle WOM is
- 90°
- . The angle of WOR is
- 40°
- .

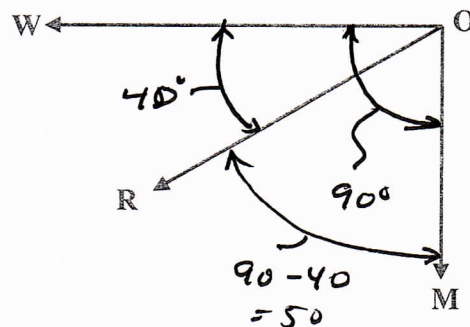
What is the measure of angle ROM?

A.) 130°

C.) 130°

B.) 50°

D.) 60°



- 3.) What expression has a quotient of about 4?

F.) $41 \div 10 = ?$
 4

G.) $28 \div 3 = ?$
 9

H.) $51 \div 4 = ?$
 12

J.) $62 \div 8 = ?$
 8

- 4.) Write the number 89,020.17 in expanded notation.

A.) $(8 \times 10,000) + (9 \times 1,000) + (2 \times 100) + (1 \times 0.1) + (7 \times 0.01)$

B.) $(8 \times 10,000) + (9 \times 1,000) + (2 \times 10) + (1 \times 1) + (7 \times 0.1)$

C.) $(8 \times 10,000) + (9 \times 1,000) + (2 \times 10) + (1 \times 0.1) + (7 \times 0.01)$

D.) $(8 \times 10,000) + (9 \times 100) + (2 \times 10) + (1 \times 0.1) + (7 \times 0.01)$

- 5.) Jessica draws two lines – Line A and Line B. Measure the difference in the two lines to the nearest centimeter using the ruler that the teacher provides you. Write your answer on the line provided.

Line A  12 cmLine B  7 cm Answer: 5 cm.

$$\begin{array}{r} 12 \\ - 7 \\ \hline 5 \end{array}$$

- 6.) The table to the right shows the number of inches and equivalent feet.

Ronald has a long rope that is 96 inches long.

How many equivalent feet is the length of Ronald's rope?

F.) 6 feet

H.) 8 feet

$96 \div 12 = 8$

G.) 7 feet

J.) 9 feet

Inches-to-Feet Conversion

| Inches | Feet |
|--------------|------|
| $24 \div 12$ | 2 |
| $36 \div 12$ | 3 |
| $48 \div 12$ | 4 |
| $60 \div 12$ | 5 |

- 7.) What is the sum and difference between 5,904.08 and 319.3?

Sum: 6,223.38 Difference: 5,584.78

Name: _____

- 1.) The list provides the responses of a class of 28 students that selected or chose their favorite color.

- 5 students chose green and 3 students selected red.
- 9 students chose blue.
- 4 fewer students chose yellow than blue. $- 9 - 4 = 5$
- 1 more student selected pink than red. $3 + 1 = 4$
- The rest of the students chose purple. $\rightarrow 5 + 3 + 9 + 5 + 4 = 26$ $\begin{array}{r} 28 \\ - 26 \\ \hline 2 \end{array}$

Calculate the students' color selections: Green: 5; Red: 3; Blue: 9;
Yellow: 5; Pink: 4; Purple: 2

- 2.) Billy mows lawns to earn money. He charges 5 dollars for a house lawn. But, he only charges 3 dollars for mowing a trailer court lawn because it is a smaller yard.

If Billy mows 6 house lawns and 4 trailer court lawns, how much total money did he make?

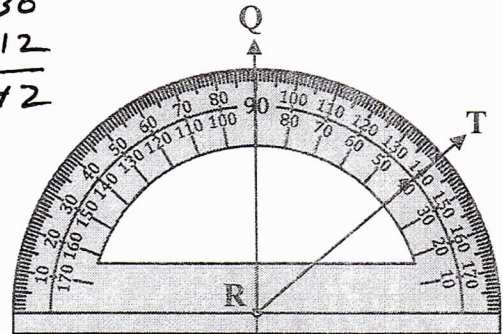
- A.) 37 dollars
B.) 45 dollars
C.) 42 dollars
D.) Not here

$$\begin{array}{r} 6 \times 5 = 30 \\ 3 \times 4 = 12 \\ \hline 42 \end{array}$$

- 3.) What is the angle of QRT to the nearest degree?

- F.) 40°
G.) 90°
H.) 30°
J.) 50°

$$\begin{array}{r} 90 \\ - 40 \\ \hline 50 \end{array}$$



- 4.) Perla made a cake. She used $3\frac{1}{4}$ cups of flour, $\frac{2}{4}$ cup of sugar, and $\frac{1}{4}$ cup of butter. $\frac{13}{4} - \frac{2}{4} - \frac{1}{4} = \frac{10}{4}$

What was the difference between the flour and the combined amounts of sugar and butter she used?

- A.) $2\frac{2}{4}$
B.) $2\frac{1}{4}$
C.) $2\frac{3}{4}$
D.) $3\frac{3}{4}$

$$\frac{10}{4} = 2\frac{2}{4}$$

- 5.) A man bought 21 bags of candy each day for 3 days. What was the total number of bags of candy he purchased for all 3 days?

- F.) 24 bags
G.) 18 bags
H.) 63 bags
J.) 60 bags

$$\begin{array}{r} 21 \\ \times 3 \\ \hline 63 \end{array}$$

- 6.) Tonya ate $\frac{6}{11}$ of a candy bar. About how much of the candy bar does Tonya have left?

- A.) $\frac{1}{4}$
B.) $\frac{1}{2}$
C.) $\frac{1}{3}$
D.) $\frac{11}{6}$

- 7.) The table shows expenses from the Garcia household over the last 3 months.

Garcia Household Expenses (May – July)

| Payments | May | June | July |
|----------|-----------|-----------|-----------|
| Rent | \$ 400 | \$ 400 | \$ 400 |
| Food | \$ 214.12 | \$ 201.67 | \$ 308.02 |
| Heating | \$ 56.45 | \$ 89.54 | \$ 104.49 |
| Car | \$ 212.54 | \$ 212.54 | \$ 212.54 |

What payments were their fixed expenses?

Rent + Car

What payments were their variable expenses?

Food + Heating

Name: Solutions

- 1.) A television show is $\frac{8}{15}$ completed. About how much of TV show is left to watch?

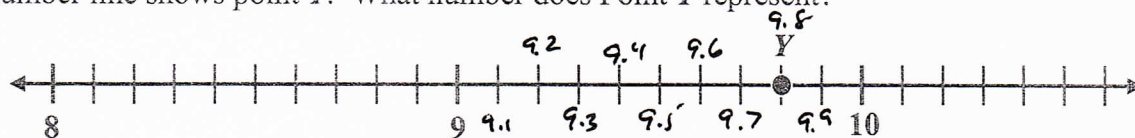
A.) $\frac{8}{9}$

B.) $\frac{15}{8}$

C.) $\frac{4}{8}$

D.) $\frac{3}{4}$

- 2.) The number line shows point Y. What number does Point Y represent?



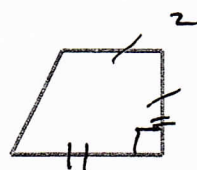
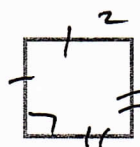
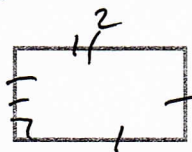
F.) 8.08

G.) 9.08

H.) 9.8

J.) 9.7

- 3.) The polygons below are all have characteristics in common.



~~A.)~~ They all have an acute angle.

B.) They all have a right angle. True

C.) They all have at least two perpendicular sides.

D.) Both B.) and C.) are correct.

- 4.) Which fraction comparison is true?

F.) $\frac{1}{2} > \frac{3}{6}$ =

H.) $\frac{4}{8} > \frac{3}{6}$ =

G.) $\frac{5}{6} < \frac{1}{2}$ >

J.) $\frac{4}{10} < \frac{1}{2}$

- 5.) The table shows 'INPUT' to 'OUTPUT.'

Which rule show how to find OUTPUT when given the INPUT?

A.) Subtract 23

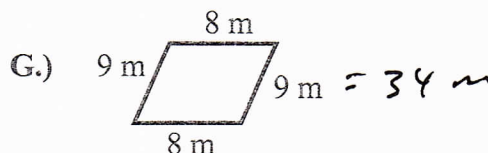
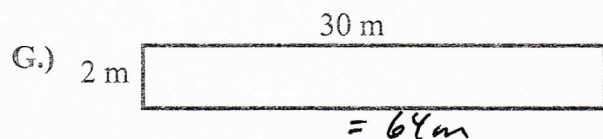
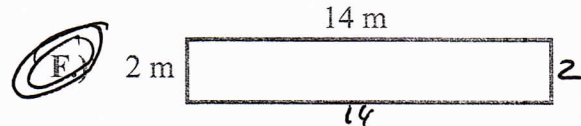
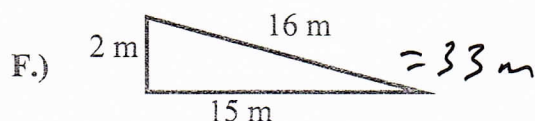
C.) Multiply 23

B.) Add 23

D.) Divide 23

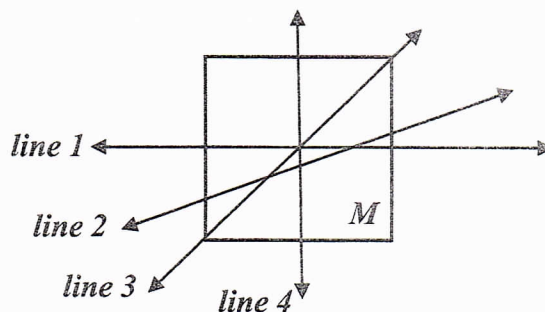
| INPUT | OUTPUT |
|---------|--------|
| 5 + 23 | 26 |
| 7 + 23 | 30 |
| 8 + 23 | 31 |
| 11 + 23 | 34 |
| 12 + 23 | 35 |

- 6.) Which shape below has a perimeter of 32 meters?



- 1.) A figure shows lines passing through square M. Three of the lines are lines of symmetry.

Which line is NOT a line of symmetry?



Write answer: Line 2
Does NOT Divide Figure
into 2 equal areas

- 2.) Richard dug a hole. He stacked $5\frac{5}{6}$ cubic feet of dirt next to his hole. Jennifer also did some digging. She put $8\frac{2}{6}$ cubic feet of dirt next to the hole she dug. What expression is one way to find the the correct sum of dirt that both Richard and Jennifer dug?

A.) $8\frac{2}{6} - 5\frac{5}{6} = ?$ B.) $\frac{50}{6} - \frac{35}{6} = ?$ C.) $8\frac{2}{6} + 5\frac{5}{6} = ?$ D.) Not here

- 3.) Find the sum of the mixed numbers.

$$9\frac{2}{8} + 5\frac{3}{8} = 9 + 5 + \frac{2}{8} + \frac{3}{8} = \underline{14\frac{5}{8}}$$

- 4.) Find the sum of the mixed numbers by separating each mixed number into a whole number and proper fraction (as was done in problem 3 above).

$$3\frac{1}{4} + 6\frac{2}{4} = \underline{3} + \underline{6} + \underline{\frac{1}{4}} + \underline{\frac{2}{4}} = \underline{9\frac{3}{4}}$$

- 5.) The population of Bakersfield, California is given by expanded notation below:

$$(4 \times 100,000) + (7 \times 1,000) + (6 \times 100) + (5 \times 1)$$

What is this number written in standard form? Write answer here: 407,605

- 6.) The list of times shows the number of people that attended a 3-hour concert from 7 PM to 10 PM.

- At 7 PM, 389 people showed up.
- At 8 PM, 571 people showed up, but 265 people left.
- At 9 PM, 247 people showed up, but 109 people left.

$$\begin{array}{r} 389 \\ + 571 \\ \hline 960 \\ - 265 \\ \hline 695 \end{array} \quad \begin{array}{r} 1,207 \\ - 374 \\ \hline 833 \end{array}$$

How many people were at the concert at 10 PM?

F.) 843 people G.) 833 people H.) 678 people J.) 679 people

- 7.) Which fraction below correctly fits in the \square to make the comparison true.

$$\frac{5}{12} >$$



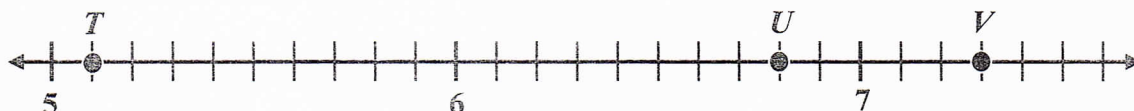
A.) $\frac{3}{5} > \frac{1}{2}$

B.) $\frac{6}{9} > \frac{1}{2}$

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

D.) $\frac{5}{8} > \frac{1}{2}$

- 8.) Write the decimals on the number line on the lines for T, U and V.



T = 5.1

U = 6.8

V = 7.3

- 1.) Which fraction and decimal shown below is NOT equivalent?

A.) $15.75 = 15 \frac{75}{100}$

(B.) $12.06 = 12 \frac{6}{10}$

C.) $23.90 = 23 \frac{9}{10}$

D.) $6.09 = 6 \frac{9}{100}$

$23 \frac{90}{100}$ \rightarrow EQUAL $9 \text{ Dimes or } 90 \text{ pennies}$

- 2.) The Smith Index Store sells pens for 80 cents each and erasers for 35 cents apiece. Sharia purchases 2 pens and 1 eraser. Sharia has 130 cents in her pocket.

$$\begin{array}{r} 160 \\ + 35 \\ \hline 195 \end{array} \quad \begin{array}{r} 195 \\ - 130 \\ \hline 65 \end{array}$$

How much more money does Sharia need to purchase the 2 pens and 1 eraser?

F.) 55 cents

G.) 115 cents

(H.) 65 cents

J.) 245 cents

- 3.) James is looking at a 4 sided figure that has two sides parallel to one another and the other two sides are not parallel. None of the sides are perpendicular. What figure is James looking at?

~~A.)~~ parallelogram

(B.) trapezoid

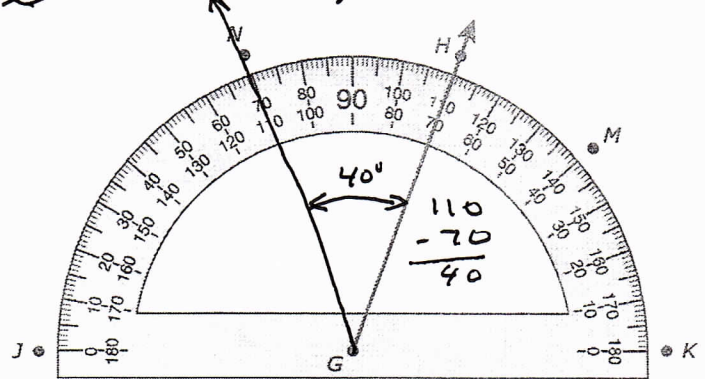
~~C.)~~ square~~D.)~~ rhombus

- 4.) Jeffery has 2,408 dollars. If bills Jeffery has only \$2 dollar bills, how many two-dollar bills does he have?

1,204 two-dollar bills

$$\begin{array}{r} 1204 \\ 2 \overline{) 2408} \\ \underline{2} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

- 5.) Ray GH has been drawn on the protractor.

To construct an angle that has a measure of 40° , another ray can be drawn that starts at point G and passes through what point?

F.) Point J

(G.) Point N

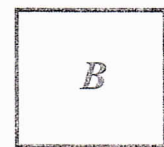
H.) Point M

J.) Point K

- 6.) A square (B) room has a side that is equal to 30 feet. What is the perimeter (P) and area (A) of the room?

A.) $P = 90$ feet; $A = 90$ sq. ft.(C.) $P = 120$ feet; $A = 900$ sq. ft.B.) $P = 60$ feet; $A = 900$ sq. ft.D.) $P = 120$ feet; $A = 90$ sq. ft.

$$\begin{array}{r} P \\ 30 \\ \times 4 \\ \hline 120 \end{array}$$



$$\begin{array}{r} A \\ 30 \\ \times 30 \\ \hline 900 \end{array}$$

- 7.) Andreas has 14 packages of straws. There are 25 straws in each package.

If Andreas puts 7 straws in a bag, how many bags will he need?

$$14 \times 25 \times \frac{1}{7} = 50$$

F.) 25 bags

(G.) 7 bags

$$\begin{array}{r} 14 \\ \times 25 \\ \hline 350 \end{array}$$

H.) 40 bags

J.) 50 bags

- 8.) Ms. Paredes buys used doll clothes and sells them. She bought a small jacket and a pair of pants for a total of 18 dollars.

• She sold the jacket for 30 dollars.

• She sold the pants for 15 dollars.

$$\begin{aligned} \text{Profit} &= \text{Revenue} - \text{Exp} \\ &= (30 + 15) - 18 \\ &= 27 \end{aligned}$$

Note: Triangle can have Perpend. sides (right triangle)

Ms. Paredes' total profit she made from selling the jacket and pants is 27 dollars.

impossible

- 9.) Does a triangle ever have parallel sides?

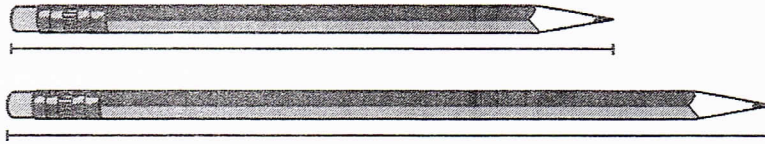
Yes or (No) (Circle your answer)

- 10.)
- $32 \div 4 = 8$
- 33
- \div
- 4 has a quotient close to what number?

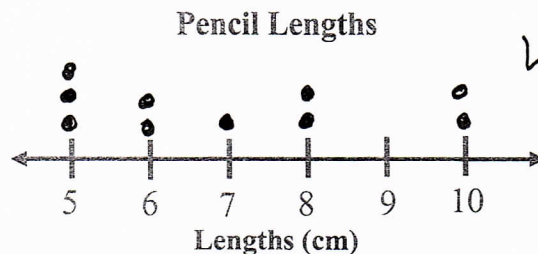
Write your quotient on the line: 8

- 1.) The data list shows the measurements of 10 pencil lengths in centimeters. There are 2 measurements missing. Use the ruler provided by your teacher and measure the two pencils below to the nearest centimeter. Write the two pencil measurements in the boxes b.

6, 5, 7, 8, 5, 6, 10, 5, 8, 10



Plot the 10 measurements on the dot plot below.



- 2.) A group of figures is shown below. Use the figures' letters to answer the questions below.



Question 2A.) Which figures above have at least one right angle? M & N only

Question 2B.) Which figures above have at least one set of parallel lines? N, O, R, X only

Question 2C.) Which figures above have at least one obtuse angle? O, R, T, X only

Question 2D.) Which figures above have at least one acute angle? M, O, R, S only

Question 2E.) Which figures above have at least one set of perpendicular lines? M, N only

- 3.) The table to the right is called an Input-Output Math Machine.

Math Machine

| Input | Output |
|--------|--------|
| 27 - 9 | 18 |
| 28 - 9 | 19 |
| 30 - 9 | 21 |
| 34 - 9 | 25 |

What is the rule to find the output when the input number is given?

A.) + 9 C.) ÷ 2

B.) × 1.56 D.) - 9

- 4.) Victor threw a baseball 35.02 meters. Which fraction below is equivalent?

F.) $35 \frac{20}{100}$ H.) $35 \frac{2}{100}$

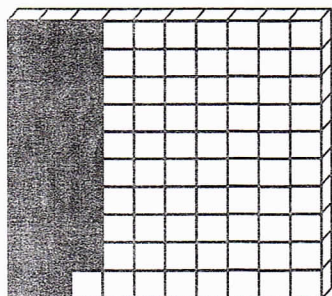
G.) $35 \frac{2}{10}$ J.) $35 \frac{20}{10}$

$$35.02 = 35 \frac{02}{100} = 35 \frac{2}{100}$$

- 1.) James owns 1,350 Pokeman collectable cards. He decides to give his entire collection to 10 friends. Each friend will receive an equal number of cards. How many cards did the 7th friend get?

A.) 13,500 cards B.) 1,350 cards C.) 135 cards D.) Not here

- 2.) The model shows a decimal that is less than 1 whole. What value is represented by the shaded portion?



$$\frac{29}{100}$$

F.) thirty-nine tenths
G.) thirty-nine hundredths
H.) twenty-nine tenths
J.) twenty-nine hundredths

- 3.) What is the value of 451,292.47 when the number is rounded to the nearest ten-thousand and tenth?

A.) 500,000 and 451,292.6 C.) 450,000 and 451,292.5
B.) 400,000 and 451,292.6 D.) 440,000 and 451,292.5

- 4.) Johnny rides the school bus. The bus holds 72 students. About how long is a school bus in feet?

F.) 10 feet G.) 13 feet H.) 35 feet J.) 100 feet

- 5.) Jill purchased 3 toys that each cost \$ 4.81. Her best friend, Jack, bought a magazine for \$6.05. About how much money did Jack and Jill spend together before they walked up the hill? (*Estimate to the nearest dollar*)

A.) \$ 15.00 B.) \$ 21.00 C.) \$ 6.00 D.) \$ 25.00

$$\begin{array}{r} 5 \times 3 \\ + 6 \\ \hline 21 \end{array}$$

- 6.) The Sacramento Kings basketball team played 5 games against the Los Angeles Lakers. The games were sold out and all tickets were purchased for each game. If 5,280 tickets were purchased for each game, what was the total number of people who attended all 5 games?

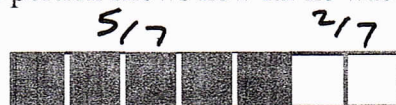
F.) 1,056 people G.) 21,120 people H.) 26,400 people J.) 31,680 people

$$\begin{array}{r} 5,280 \\ \times 5 \\ \hline 26,400 \end{array}$$

- 7.) Figure out Betty's number. She chose an '5' in the hundreds place, and a '3' in the hundredths place. She also selected a 7 in the hundred-thousands place. What number below is Betty's number?

A.) 4,728,309.35 B.) 9,708,501.23 C.) 1,726,309.15 D.) Not here

- 8.) Mitch ran 7 miles on a Saturday morning. The shaded portion shows how far he was able to run. What fraction of the 7 miles did Mitch NOT run?



F.) $\frac{2}{7}$ G.) $\frac{5}{7}$ H.) $\frac{7}{7}$ J.) $\frac{7}{2}$

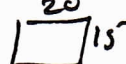
- 9.) About what is the quotient of $49 \div 6$?

The quotient is about: 8

compatible numbers

$$48 \div 6$$

- 1.) Mr. Blosschok's garden has dimensions of 20 feet by 15 feet. What is his garden's perimeter?

Perimeter of garden = 70 feet $(20+15) \times 2$ 35×2 

- 2.) There are 15 rows of cans on a supermarket's shelf. Each row contains 8 cans. Ashley takes the cans off the shelf and puts them in 3 boxes. There are an equal number of cans in each box. How many cans are in each box?

$$\begin{array}{r} 40 \\ 3 \overline{)120} \end{array}$$

$$\begin{array}{r} 15 \\ \times 8 \\ \hline 120 \end{array}$$

A.) 40 cans

B.) 90 cans

C.) 30 cans

D.) 120 cans

- 3.) A customer purchased 4 pounds and 9 ounces of ground beef. The customer also purchased 2 pounds and 8 ounces of cheese to make queso. What is the total amount of weight in pounds and ounces that the customer purchased at the store?

$$\begin{array}{r} 4 \text{ lb } 9 \text{ oz} \\ + 2 \text{ lb } 8 \text{ oz} \\ \hline 6 \text{ lb } 17 \text{ oz} \end{array}$$

F.) 12 pounds 10 ounces

G.) 7 pounds 1 ounce

H.) 7 pounds 9 ounces

J.) 6 pounds 12 ounces

$$7 \text{ lb } 1 \text{ oz}$$

- 4.) Chris' teacher wrote 4 fraction comparisons on the board. Those comparisons are given in the table. What fraction comparisons are correct?

Table of Fraction Comparisons

| M | N | O | P |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| $\frac{2}{3} > \frac{1}{3}$ | $\frac{4}{8} > \frac{5}{3}$ | $\frac{6}{8} > \frac{3}{6}$ | $\frac{1}{2} > \frac{4}{8}$ |
| yes | x | yes | no |

A.) Only M

B.) Only M & P

C.) Only O

D.) Only M & O

- 5.) Phillip won the 100-meter race by thirty-five hundredths of a second. What digit is in the tenths place?

$$0.\underline{3}5$$

F.) 0.5

G.) 0.3

H.) 0.05

J.) 0.03

- 6.) Yessica ordered 38 boxes of art supplies for her church. Each box had 100 packages of colored chalk. What was the total number of packages of colored chalk that Yessica ordered?

Colored Chalk packages = 3,800

$$\begin{array}{r} 100 \\ \times 38 \\ \hline 3800 \end{array} \text{ or } 38 \times 100$$

- 7.) Kim's mother requires her daughter to read a chapter book for at least 45 minutes each evening. If Kim begins reading at 6:20 PM, what time is she allowed to stop reading?

A.) 6:55 PM

B.) 7:05 PM

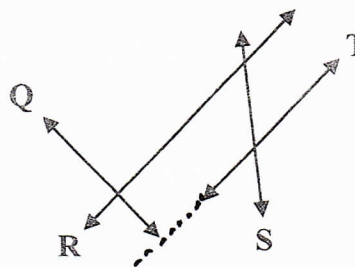
C.) 7:15 PM

D.) Not here

$$\begin{array}{r} 6:20 \\ + 45 \\ \hline 6:65 \\ = 7:05 \end{array}$$

- 8.) Identify lines that appear to be perpendicular?

Q and R Q and S



- 9.) What two lines appear to be parallel?

R and T

$$\begin{array}{r} 4.05 \\ - 2.90 \\ \hline 1.15 \end{array}$$

- 10.) Mr. Smith's children were playing with a large ball. He decided to have a contest which of his children could throw a ball the furthest. Johnathan threw the ball 4.05 meters. Ralph threw the ball only 2.9 meters. Calculate the sum and difference of the distances Johnathan and Ralph threw the ball.

Sum = 6.95 m

Difference = 1.15 m

$$\begin{array}{r} 4.05 \\ + 2.90 \\ \hline 6.95 \end{array}$$

1.) Priscilla made the following batch of cookies.

- $\frac{3}{8}$ of the cookies were peanut butter.
- $\frac{2}{8}$ of the cookies were oatmeal.
- The rest of the cookies were sugar cookies. $\frac{3}{8} < \frac{1}{2}$

What statement is true concerning the cookies that the baker made?

- A.) $\frac{2}{8}$ of the cookies were sugar cookies. C.) over $\frac{1}{2}$ of the cookies were sugar cookies.
 B.) $\frac{1}{8}$ of the cookies were sugar cookies. **D.) less than $\frac{1}{2}$ of the cookies were sugar cookies.**

2.) Brett's Auto Parts Store pays its expenses monthly. The table shows the business' monthly expenditures over the last three months.

a.) What payments are variable expenses:

Water + Electricity

b.) What payments are fixed expenses:

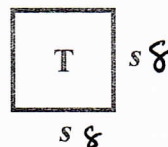
Rent + Telephone

Brett's Auto Parts Store Month Expenses

| Payments | May | June | July |
|-------------|-----------|-----------|-----------|
| Rent | \$ 1,000 | \$ 1,000 | \$ 1,000 |
| Water | \$ 414.12 | \$ 201.67 | \$ 308.02 |
| Electricity | \$ 56.45 | \$ 109.54 | \$ 104.49 |
| Telephone | \$ 150.04 | \$ 150.04 | \$ 150.04 |

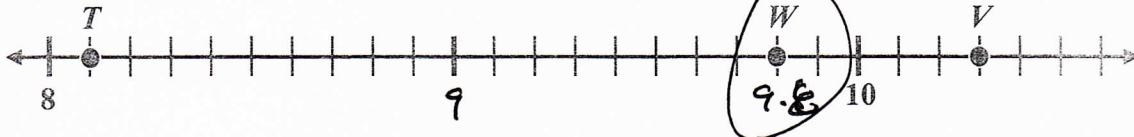
3.) A square T has a perimeter of 32 feet and an area of 64 feet squared. Find the side 's' of the square.

$s = \underline{8}$ feet



$8 + 8 + 8 + 8 = 32$
 $8 \times 8 = 64$

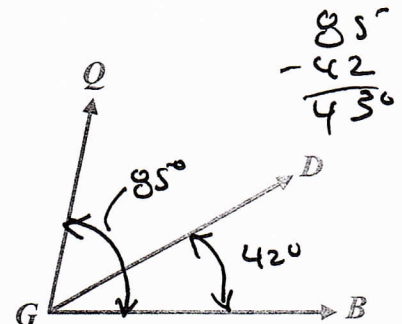
4.) Point W represents what point on the number line?



- F.) 8.18 G.) 8.9 **H.) 9.8** J.) Not here

5.) Angle QGD measures 42° . Angle QGB measures 85° .

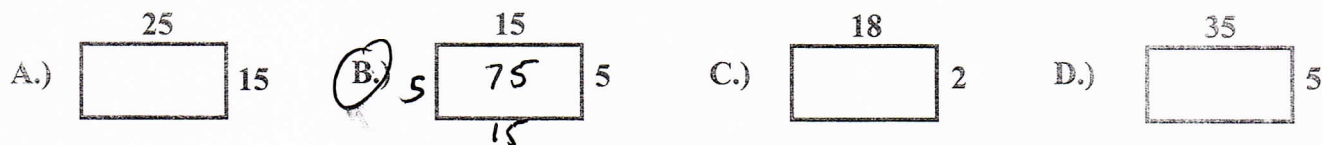
What is the measure of Angle DGB? 43°



6.) Write the **decimal** equivalent of each fraction.

- a.) $\frac{1}{2} = \underline{0.5}$ b.) $\frac{4}{4} = \underline{1.0}$ c.) $\frac{63}{100} = \underline{0.63}$ d.) $\frac{13}{10} = \underline{1.3}$

- 1.) A rectangle has a perimeter of 40 meters and an area of 75 meters squared. Which rectangle below represents this model?



- 2.) The list shows that days each month that Betty exercised at the gym over the last 12 months.

5, 8, 9, 12, 9, 15, 11, 3, 9, 10, 14, 8

Which row of the frequency table is incorrect?

- F.) The row showing 0 to 5.
 G.) The row showing 6 to 10.
 H.) The row showing 11 to 15.
 J.) All rows are correct.

$0 \leftrightarrow 5 = 2$
 $6 \leftrightarrow 10 = 6$
 $11 \leftrightarrow 15 = 4$

Betty's Gym Days

| Gym Days | Frequency |
|----------|-----------|
| 0 to 5 | |
| 6 to 10 | |
| 11 to 15 | |

- 3.) 4 friends went on a hike. They all planned to walk the same distance – one mile. The table below shows the fraction that each of the boys was able to hike.

Which of these fractions is greater than $\frac{3}{4}$?

- A.) Only Billy's and Franco's
 B.) Only Billy's and Zachary's
 C.) Only Billy's and James'
 D.) Only Franco's and Zachary's

Fraction of a mile

| Boy's Name | Distance Hiked |
|------------|--|
| ✓ Billy | $\frac{7}{8} > \frac{3}{4}$ ✓ |
| ✓ James | $\frac{8}{10} > \frac{3}{4}$ ✓ |
| Franco | $\frac{3}{4} > \frac{9}{16}$ (X) |
| Zachary | $\frac{5}{12}$ No Less Than $\frac{1}{2}$ |

- 4.) Shade the circle model to represent $\frac{7}{9}$.



What is one way that this model cannot be represented?

F.) $\frac{4}{9} + \frac{4}{9} - \frac{1}{9} = ?$ $\frac{7}{9}$

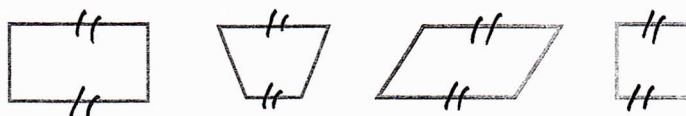
H.) $\frac{2}{9} + \frac{7}{9} - \frac{3}{9} = ?$ $\frac{6}{9}$

G.) $\frac{2}{9} + \frac{4}{9} + \frac{1}{9} = ?$ $\frac{7}{9}$

J.) $\frac{1}{9} + \frac{3}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} = ?$ $\frac{7}{9}$

- 5.) Jack drew 4 quadrilaterals on his computer.

What statement is accurate in classifying the quadrilaterals?



- A.) Each figure has one right angle.
 B.) Each figure has at least one acute angle.
 C.) Each figure has one set of perpendicular sides.
 D.) Each figure has at least one set of parallel sides.

- 1.) San Jose High School's football team beat Piedmont High School by 15 points on Friday night. Last year, San Jose scored 3 times that number of points on Piedmont as they did on Friday night. What two equations provide the total points (P) that San Jose High School scored on Piedmont in the last two years?

$$15 + 3 \times (15) = 60$$

A.) $3 \times 15 = 45$
 $45 + 15 = P$

B.) $3 \times 10 = 30$
 $30 + 15 = P$

C.) $45 \div 3 = 15$
 $15 + 15 = P$

D.) $15 - 3 = 12$
 $12 + 15 = P$

- 2.) Which of these statements best explains what a bank can do for its customers?

- I.) Loan money to its customers to buy cars, boats and houses.
 II.) Mail letters for its customers so they do not have to drive to the post office.
III.) Provide their customers checking and savings accounts.
 IV.) Provide advice on how to raise their customers' children to be good citizens.

F.) I and II only.

G.) I, II, and III only.

H.) IV only.

J.) I and III only.

- 3.) Miss Cantu's and Miss Roberts' class are going on a field trip. There are 24 students in Ms. Cantu's class and 25 students in Ms. Roberts. If 6 students can ride in each van, what is the least number of vans that are needed to carry all the children to the field trip?

F.) 49 vans

B.) 7 vans

C.) 8 vans

D.) 9 vans

$$\begin{array}{r} 24 \\ 25 \\ \hline 49 \end{array}$$

- 4.) Draw a quadrilateral that has TWO right angles, ONE acute angle and ONE obtuse angle.



- 5.) The list of data below shows the distances (in feet) that Carl threw the shot-put at Wednesday's practice.

31 45 38 51 40 42 48 37 39 42 54 50

The stem and leaf plot also shows the distances in feet that Carl threw the shot put.

Complete the stem and leaf plot by filling in each box on the plot to the right.

- 6.) Pedro wrote a number with a '3' in the hundredths place. He also wrote a '2' in the millions place and a '0' in the thousands place.

What number below did Pedro write?

F.) 12,402,914.23

H.) 20,412,914.23

G.) 12,480,914.23

J.) 2,410,314.69

| Carl's Shot-Put throws | | | | |
|------------------------|--------------------------------|--------------------------------|--------------------------------|---|
| Stem | Leaf | | | |
| 3 | 1 | 7 | 8 | 9 |
| 4 | 0 | 2 | <input type="text" value="2"/> | <input type="text" value="5"/> <input type="text" value="8"/> |
| 5 | <input type="text" value="0"/> | <input type="text" value="1"/> | <input type="text" value="4"/> | |
| 3 2 means 32 feet | | | | |

- 7.) There are 4 fourth grade classes at Hill Elementary. Each class made a paper project that required each student to use 5 pieces of paper. If there are 25 students in each class, how many pieces of paper did all the students use to create their paper project?

$$\begin{array}{r} 25 \times 5 = 125 \\ \times 4 \\ \hline 600 \end{array}$$

600 pieces of paper used

- 8.) Ercimin has 20 photos on her phone. Julie has 2 times as many photos as Ercimin on her phone. What is the total number of photos that the two girls have on their phones?

$$20 + 2(20) = 60$$

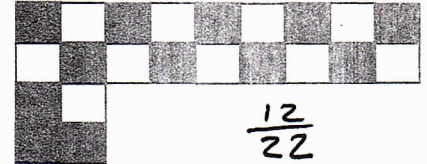
60 photos

- 1.) Which fraction is equivalent to 23.04? $23.04 = 23 \frac{4}{100}$
- A.) 2.34 **B.)** $23 \frac{4}{100}$ C.) $23 \frac{4}{10}$ D.) $23 \frac{4}{1,000}$

- 2.) A rectangular playground has the following dimensions: Length = 40 feet Width = 15 feet

- a.) Compute the playground's perimeter = 110 feet $(40 + 15) \times 2 = 55 \times 2 = 110$
- b.) Compute the playground's area = 600 sq. feet $40 \times 15 = 600$

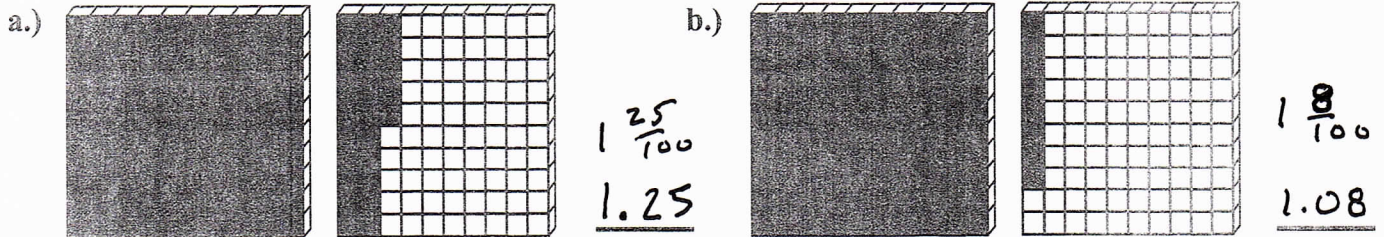
- 3.) An "L-Shaped" rectangular floor has the tile pattern shown to the right.



Calculate the fraction of shaded tiles on this floor.

- F.)** $\frac{5}{22} + \frac{4}{22} + \frac{1}{22} + \frac{2}{22} = ? \frac{12}{22} \checkmark$ H.) $\frac{8}{22} + \frac{7}{22} + \frac{5}{22} + \frac{2}{22} = ? \frac{22}{22} \times$
- G.) $\frac{5}{22} - \frac{4}{22} + \frac{1}{22} + \frac{2}{22} = ? \frac{4}{22} \times$ J.) $\frac{9}{22} - \frac{7}{22} - \frac{1}{22} + \frac{1}{22} = ? \frac{2}{22} \times$

- 4.) Write the decimal represented by each model on the line provided.



- 5.) Jeff poured 5 quarts and 2 cups of water. His friend, Craig poured 2 quarts and 3 cups of water. What was the sum of liquid poured by both Jeff and Craig in quarts and cups?

- A.) 7 quarts and 2 cups **B.)** 8 quarts and 1 cup C.) 8 quarts and 2 cups D.) 8 quarts
- $5 \text{ q } 2 \text{ c}$
 $2 \text{ q } 3 \text{ c}$
 $\hline 7 \text{ q } 5 \text{ c}$
 $8 \text{ q } 1 \text{ c}$

- 6.) Mr. Johnson drove his car 89 miles on Monday, 105 miles on Tuesday, and 62 miles on Wednesday. About what is the total amount of miles that Mr. Johnson drove over the three days?

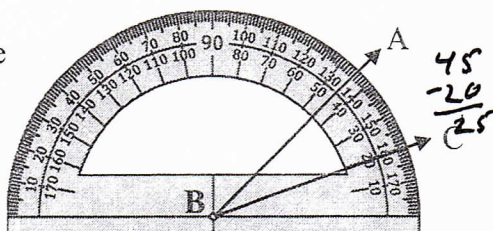
- F.)** 260 miles G.) 160 miles H.) 240 miles J.) 270 miles
- $105 \rightarrow 110$
 $89 \rightarrow 90$
 $62 \rightarrow 60$
 $\hline 260$

- 7.) Which fraction comparison is correct?

- A.) $\frac{4}{12} > \frac{5}{12} \sim$ B.) $\frac{7}{8} < \frac{5}{12} \sim$ **C.)** $\frac{3}{4} > \frac{8}{16} \checkmark$ D.) $\frac{5}{10} < \frac{9}{20} \times$

- 8.) What is the measure of angle ABC?

25 °



- 9.) Priscilla's year-old baby girl, Perla, walked 13 feet without falling to the ground. How many inches is 13 feet?

$$\begin{array}{r} 13 \\ \times 12 \\ \hline 26 \\ 130 \\ \hline 156 \end{array}$$

156 inches