Name: _____ Period: _____ 6th ALL Math 5/9 WED

RACE TO THE STAAR DAY 7

6.8A

1 Ross builds a triangular shaped fence to hide his pool pump. He already has two sections of fencing measuring $8\frac{1}{2}$ feet and $5\frac{1}{2}$ feet. Which fencing length would Ross NOT be able to use as the third side of his fence?

A 4 feet

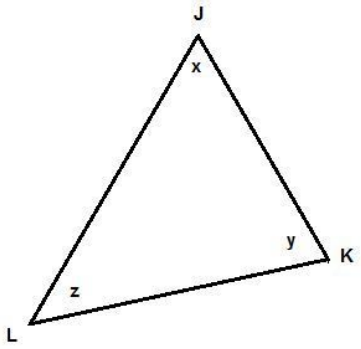
B 8 feet

C 12 feet

D 16 feet

6.8A

2 Triangle JKL is shown below.



If KL = 12 cm, JK = 10 cm, and JL = 11 cm, which list shows the angles in order from least to greatest, according to their measures?

F Angle x , Angle y , Angle z

G Angle z , Angle y , Angle x

H Angle z , Angle x , Angle y

J Angle y , Angle z , Angle x

6.3A

3 Nancy has 5 pounds of jelly beans to divide into bags for her grandchildren. If she puts $\frac{1}{4}$ pound of jelly beans in each bag, how many bags can she make?

A 10 bags

B 5 bags

B $1\frac{1}{4}$ bags

D 20 bags

6.3B

4 Kyle drinks $\frac{2}{3}$ cup of milk each day. Which best describes the amount of milk Kyle will drink in 5 days?

F Less than $\frac{2}{3}$ cup

G Less than 5 cups

H Exactly 5 cups

J More than 5 cups

6.4A

5 Study the situations shown below.

I. Josefina is 8 years older than Daniela.
II. Josefina receives $8 each hour she works.

Which statement is true?

A Situation I shows a multiplicative relationship and situation II shows an additive relationship.

B Situation I shows an additive relationship and situation II shows a multiplicative relationship.

C Both show multiplicative relationships.

D Both show additive relationships.

6.5A

Use the table to answer questions 6 & 7.

Wall Height

Time Worked (hours)	Wall Height (inches)
2	12
3	18
5	30

The table shows the relationship between the amount of time a bricklayer works and the height of the wall he builds.

6 If the bricklayer works for 9 hours, what would be the height of the wall in inches?

F 42 inches

G 56 inches

H 60 inches

J Not here

7 Which expression can be used to determine the number of hours it takes the bricklayer to reach a height of w inches?

A 6w

B $\frac{1}{2}$ w

C 12 w

D $\frac{1}{6}$ w

6.9A

8 Claire drew a pair of complementary angles. The first angle measured 43 degrees. Which of the following could be used to determine the measure of s, the second angle Claire drew?

F s + 43 = 180

G 43 + x = 90

H 43 – x = 90

J 180 – s = 43

6.9C

9 Which situation is best represented by the equation below?

$$x - 3.5 = 4.75$$

A Alex had $4.75. He paid $3.50 for a snack and drink. What is x, the amount of money Alex has left?

B Paige found a scarf with a sale price of $4.75. The discount was $3.50. What is x, the original price of the scarf?

C Jackson drew a line segment that was 3.5 inches long. Joshua drew a line segment that was 4.75 inches long. What is x, the difference

D Caleb completed a math problem in 3.5 minutes. Sam completed the same problem in 4.75 minutes. The time limit was 5 minutes. What is x, the difference in Caleb's time and the time limit.

6.10B

10 Which represents a possible solution set for the inequality shown below?

$$\frac{x}{-3} < 10$$

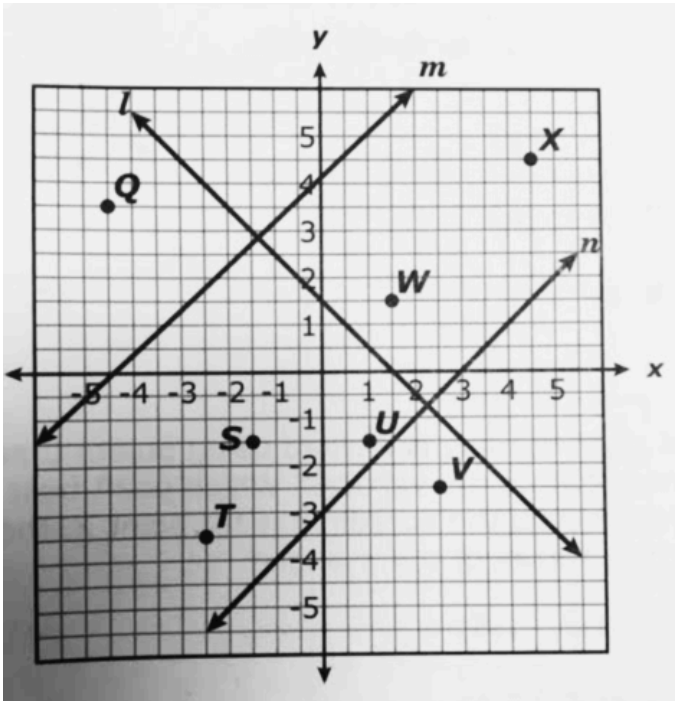
F {-60 , -9 , -3 , 15}

G {-25 , -10 , 12 . 27}

H {-30 , 3 , 30 , 60}

J {-40 , -38 , -36 , -34}

6.11A
Use the grid to answer questions 11-13.



11 Which of the following are NOT coordinates located on line n?

A $\left(4\frac{1}{2}, 1\frac{1}{2}\right)$

B $\left(1, -1\frac{1}{2}\right)$

C $(0, 3)$

D $\left(-1\frac{1}{2}, -4\frac{1}{2}\right)$

12 For which point(s) do the x- and y-coordinates have the same value?

F Point S only

G Point S and W only

H Point S, W and X only

J Points S, W, X, and V only

13 Points T, S, and U represent 3 vertices of a parallelogram. Which best represents point Y, the fourth vertex of the parallelogram

A $\left(2, -3\frac{1}{2}\right)$

B $\left(1, -3\frac{1}{2}\right)$

C $\left(\frac{1}{2}, -3\frac{1}{2}\right)$

D $\left(0, -3\frac{1}{2}\right)$

6.6C

14 Which of the following statements does NOT describe the data shown in the table?

X	80	64	40	16
Y	10	8	5	2

F The value of x is 8 more than the value of y.

G The value of y is $\frac{1}{8}$ the value of x.

H The value of y is the value of x divided by 8.

J The value of x is 8 times the value of y.

6.2A

15 Which of the following statements is always true?

A A rational number is a whole number.

B A whole number is not a rational number.

C Whole numbers are also integers and rational numbers.

D A rational number is an integer.