



Kittatinny Regional High School

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2005 Governor's School of Excellence



June 2018

Math Summer Review Assignment 7th Grade

Dear Parents/Guardians of Incoming Seventh Graders,

JUST THE FACTS

As part of the regional curriculum planning process, we have set goals for skill mastery that will help to ensure your child's success in the following year's math program. Short review sessions throughout the summer should keep your child's skills sharp.

In an effort to assist you in helping your child, we have attached a review packet to be completed during the summer and returned to your child's teacher on the first day of school.

In order to allow us to better understand your child's thinking process, it is important that we see how your child solves the problems in the packet. Wherever work beyond a simple calculation is required to solve a problem, we ask that the written work be shown on the worksheet or on an attached sheet of paper. Since the goal of completing this packet is to provide a review of basic skills, a calculator should not be used.

In early September, students will be given a test to determine how well they have mastered these skills. As a result of your help with the review over the summer and all the work that previous teachers have done, we feel your child will get off to a good start with next year's math course. This process will allow us to help our students learn the more complex skills included in our challenging curriculum.

Sincerely,

Kittatinny Seventh Grade Teachers

*Kittatinny Regional Board of Education
"Imparting Knowledge That Works for Our Children" - Sussex County's First Star School*

Name _____

**Summer Assignment for
Incoming 7th Grade Students**

1. A relief agency sends 8 trucks loaded with boxes of supplies to a region damaged by a flood. Each truck carries 5,000 boxes. How many boxes is the relief agency sending to the region?

_____ boxes

2. If a helicopter travels at a speed of 165 miles per hour, how many miles will the helicopter travel in 13 hours?

_____ miles

3. To raise money 43 band members sold 817 rolls of wrapping paper. Each person sold the same number of rolls. How many rolls did each person sell?

_____ rolls

4. Arrange the set of decimals from least to greatest.

1.565, 1.15, 1.504, 1.6

_____, _____, _____, _____

5. Find $6.7 - 2.91$.

Answer: _____

6. The area of a rectangular rug is 19.5 square meters. The width of the rug is 3.75 meters. What is the length of the rug, in meters?

Length is _____ meters

7. Complete each statement by filling in the blanks with the correct numbers.

$$4 \div 5 = \frac{[\quad]}{[\quad]}$$

$$\frac{1}{6} = [\quad] \div [\quad]$$

8. Keith lives $\frac{3}{4}$ miles north of the school. Karen lives $\frac{3}{10}$ miles north of the school. What is the distance from Keith's house to Karen's house?

_____ miles

9. Fruit juice in $\frac{3}{5}$ pint cartons is sold at a park concession stand in $\frac{5}{8}$ pint mugs. Let N represent the number of mugs in a carton. Which of the following could you use to find the value of N ?

A. $\frac{5}{8} - \frac{3}{5} = N$

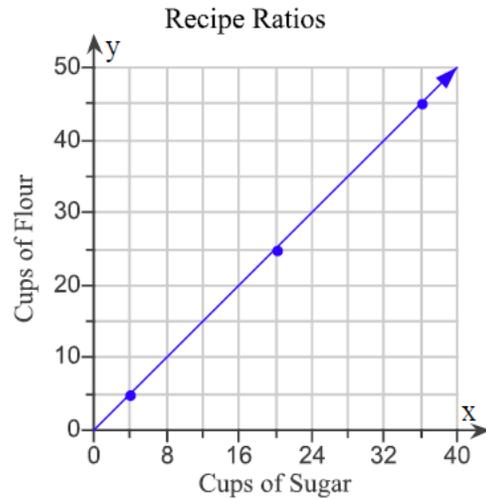
B. $\frac{3}{5} \times \frac{5}{8} = N$

C. $\frac{3}{5} \div \frac{5}{8} = N$

D. $\frac{5}{8} \div \frac{3}{5} = N$

There would be _____ mug in a carton.
(Fill in the blank with a whole number or simplified fraction)

10. The graph below shows the ratio of cups of sugar to cups of flour for a certain recipe. Complete the table of ratios from the graph.



Recipe Ratios	
Cups of Sugar	Cups of Flour
	5
20	
	45

11. Running at a constant rate, Gina ran 10 miles in a time of 150 minutes. How many minutes does it take Gina to run 4 miles?

_____ minutes

12. A dog is $3\frac{3}{4}$ years old and $1\frac{1}{5}$ feet tall. If its owner is $4\frac{1}{2}$ times as tall as the dog, how tall is the owner? Write your answer as a mixed number in simplest form.

_____ feet tall

13. Use exponents to write the product $9 \times 9 \times 9 \times 9$ in a shorter form.

Answer: _____

14. Write two ratios that are equivalent to $6 : 12$

Answer: _____ : _____ _____ : _____

15. In a forest, $\frac{7}{20}$ of the trees are oak trees. Write $\frac{7}{20}$ as a percent.

Answer: _____

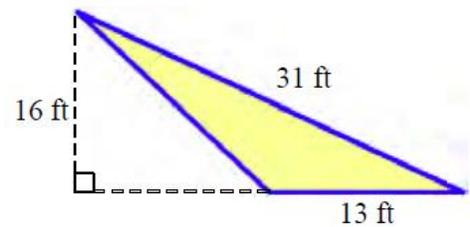
16. A car salesperson sells a used car for \$7,800 and earns 5% of the sale price as a commission. How many dollars does the salesperson earn in commission?

Answer: _____ dollars

17. Complete the table to summarize the properties of a parallelogram by YES, NO or MAYBE in the open box next to each property that is a property of a parallelogram.

Property	Parallelogram
The shape has four sides	
Both pairs of opposite sides are parallel	
Exactly one pair of opposite sides are parallel	
The shape has four right angles.	
All sides are the same length	

18. Use the formula $A = \frac{1}{2}bh$, to find the area of the triangle shown below.



(The figure is not to scale.)

Answer: _____ ft^2

19. What is the value of this expression?

$$16 + (8 - 4)^2 \div 4$$

Answer: _____

20. 45 is 90% of what number?

Answer: _____

21. Which expression is equivalent to the expression

$$4(x - 3) + 2$$

- A. $4x + 12 + 2$
- B. $4x - 12 + 8$
- C. $4x - 12 + 2$
- D. $(4 + x) - (4 + 3) + 2$

22. A youth club has a coordinate plane painted on the floor. The origin is located in the center of the floor and each grid square is one square foot. A poster is placed on the floor with its corners located at the following points:

$$A(-4, -2) \quad B(11, -2) \quad C(11, 6) \quad D(-4, 6)$$

Width:

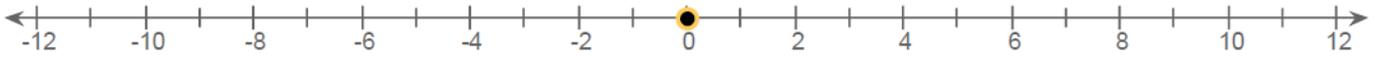
The distance between points A and B is _____ feet

Length:

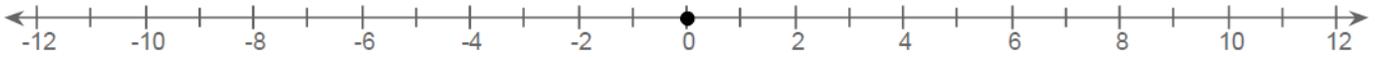
The distance between points A and D is _____ feet.

23. Graph each integer on a number line

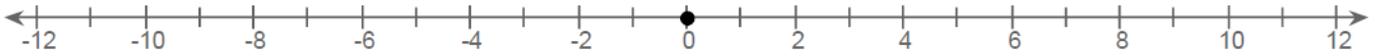
Graph a point at 3.



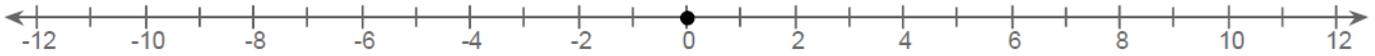
Graph a point at -9 .



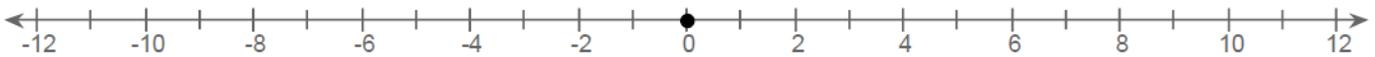
Graph a point at $-(-10)$.



Graph a point at -1 .

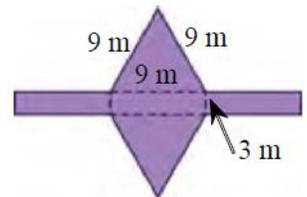


Graph a point at $-(-9)$.

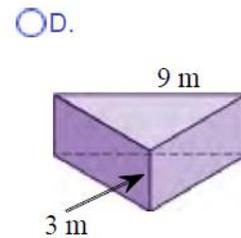
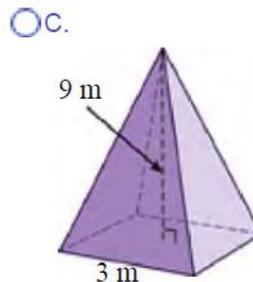
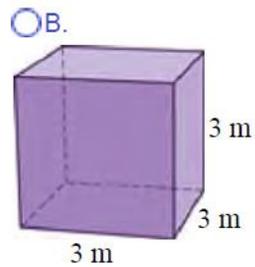
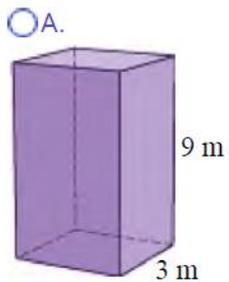


24.

What solid figure could be formed when folding the net along the dotted lines? The figures are not drawn to scale.



Choose the correct answer below.

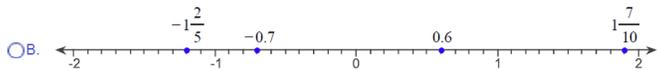
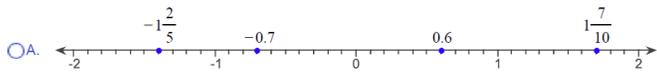


25. Write the numbers in order from greatest to least.

$$1\frac{7}{10} \quad -1\frac{2}{5} \quad 0.6 \quad -0.7$$

_____ , _____ , _____ , _____

Which number line shows the four numbers plotted correctly?



26. Complete the table. Use the figures to help you find your answers.

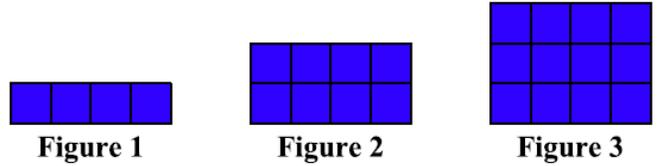


Figure Number	Number of Squares
1	4
2	
3	12
...	...
n	

27. Simplify. Distribute and then combine like terms.

$$3(8x - 7) + 13x$$

Answer: _____

29. Which equation has 12 as a solution?

A. $\frac{x}{3} + 5 = 9$

B. $5x - 9 = 46$

C. $\frac{x}{5} - 1 = 3$

D. $6x + 3 = 69$

28. Of the students in your class, $\frac{1}{6}$ prefer apple juice. In total, $\frac{5}{12}$ of the students prefer apple juice or orange juice. Choose an equation that you could use to find t , the fraction of students who prefer orange juice. Then solve the equation. Write your answer as a simplified fraction.

A. $\frac{1}{6} + t = \frac{5}{12}$

B. $t - \frac{1}{6} = \frac{5}{12}$

C. $\frac{5}{12} + t = \frac{1}{6}$

D. $\frac{1}{6} - \frac{5}{12} = t$

Of the students in your class, _____ prefer orange juice.