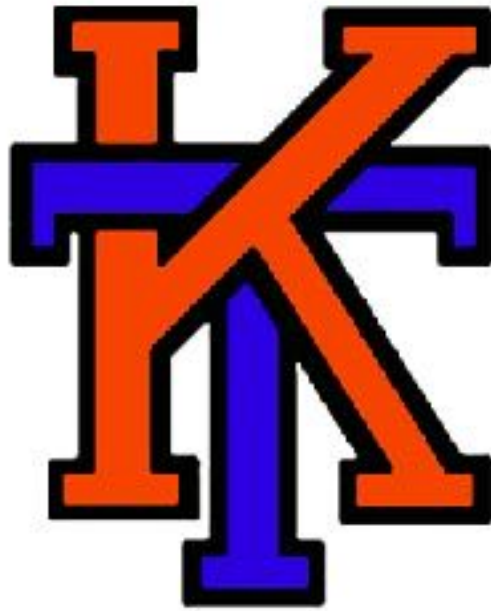


# Keansburg School District



Summer Mathematics Review of 5<sup>th</sup>  
Grade Standards for Students  
Entering 6<sup>th</sup> Grade

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

6th Grade  
Teacher: \_\_\_\_\_

# Keansburg School District

## Summer Course Work

### Review for Sixth Grade

#### **Operations and Algebraic Thinking**

Write and interpret numerical expressions.

Analyze patterns and relationships.

#### **Number and Operations in Base Ten**

Understand the place value system.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

#### **Number and Operations—Fractions**

Use equivalent fractions as a strategy to add and subtract fractions.

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

#### **Measurement and Data**

Convert like measurement units within a given measurement system.

Represent and interpret data.

Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

## **Geometry**

Graph points on the coordinate plane to solve real-world and mathematical problems.

Classify two-dimensional figures into categories based on their properties.

## **Mathematical Practices**

Make sense of problems and persevere in solving them.

Reason abstractly and quantitatively.

Construct viable arguments and critique the reasoning of others.

Model with mathematics.

Use appropriate tools strategically.

Attend to precision.

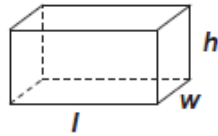
Look for and make use of structure.

Look for and express regularity in repeated reasoning.

# Reference Sheet

**Rectangular Prism**

$$\begin{aligned}\text{Volume} &= l \times w \times h \\ &= B \times h\end{aligned}$$



USE THE FOLLOWING EQUIVALENTS FOR YOUR CALCULATIONS

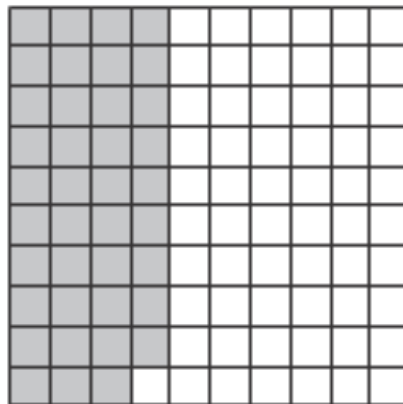
52 weeks = 1 year 365 days = 1 year	12 inches = 1 foot 3 feet = 1 yard 5,280 feet = 1 mile	10 millimeters = 1 centimeter 100 centimeters = 1 meter 1000 meters = 1 kilometer
8 fluid ounces = 1 cup 2 cups = 1 pint 2 pints = 1 quart 4 quarts = 1 gallon  1000 milliliters (mL) = 1 liter (L)	16 ounces = 1 pound 2,000 pounds = 1 ton  1000 milligrams = 1 gram 1000 grams = 1 kilogram	



2) Write a seven digit number, with a 4 in the ten thousands place.

3) What is  $\frac{7}{10}$  written as a decimal?

4) What decimal does the fraction below represent?



5) Write the following number: *Two hundred eighty nine thousand, three hundred fifty two*

6) What is the product of  $7 \times 7 \times 7 \times 7$ , written with an exponent?

7) What is  $751 \times 9$ ? Show all work.

8) What is  $61 \times 35$ ? Show all work.

9) An electrician earns \$975 per week. How much will he earn in 4 weeks?

10) Terry arranged chairs for a meeting. She arranged 6 rows with 12 chairs in each row. How many chairs are there altogether?

11) A group of 80 students arrived at a restaurant for lunch.

If each table seats 6 people, how many tables will the group need?

12) Sandi plans to split her stickers up evenly among her five

friends. If Sandi has 60 stickers, how many will each friend receive?

13) Jeremy has a 198 page book to read for school. How

long will it take him to finish the book if he reads 9 pages each day?



14) 180 students went on a field trip. There is a teacher for each group of 12 students. How many teachers went on the trip?

15) Jillian's lunch costs \$4.58, and she pays with a \$10 bill. How much change does she receive?

16) The school book club started the year with \$225 to buy materials for the club. They have already purchased \$30 worth of bookmarks, and want to use the rest to buy books. How many books can they buy if each book is \$10?

17) Last year, Todd's batting average was .280. Tyrone's batting average was .310. What is the difference between the two batting averages?

18) Paula purchased 1.50 yards of blue fabric, 2.75 yards of green fabric, and 3.25 yards of red fabric. How much fabric did she purchase altogether?

19) Brandon bought a pair of jeans for \$39.99, and two shirts for \$15.99 each. He received \$ 8.03 in change. How much money did he originally have?

- 20) If one pineapple weighs 1.6lbs, how much would four identical pineapples weight?
- 21) Barry lives 5.8 miles from school. He lives ten times that distance from the nearest museum. How far does he live from the nearest museum?
- 22) Jennifer ran for 22 minutes on Monday, 25 minutes on Wednesday, and 28 minutes on Friday. If this pattern continues, how long will she run for on Sunday?
- 23) The students at Franklin School raised \$2,362.34. The money will be split equally between two charities. How much will each charity receive?

24) Use the coordinate plane below to find the ordered pairs for each point.

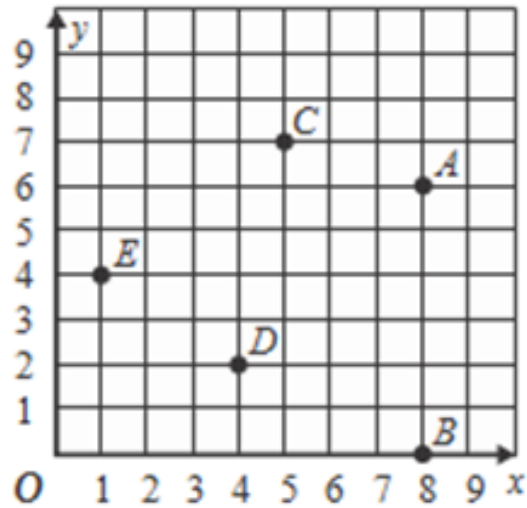
A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

E. \_\_\_\_\_



25) What is the value of the expression below?

$$4 \times (7 - 5)^2 + 14$$

26) What is the value of the expression below?

$$(6 + 5^2) - (17 + 3) + 2$$

27) Solve the equation:

$$x + 2 = 10$$

28) Solve the equation:

$$y - 7 = 13$$

29) There are 7.2 grams of protein in one serving of trail mix.

How many grams of protein are in four servings?

30) What is the prime factorization of the number 88? (hint:

make a factor tree)

31) What is the prime factorization of the number 128?

32) Use the table below to find the combined cost of one slice of pizza, a salad, and two juices?

Lunch Menu	
Item	Price
Sandwich	\$2.39
Slice of pizza	\$2.29
Salad	\$2.09
Chips	\$0.79
Fruit cup	\$1.19
Milk	\$1.25
Juice	\$1.15

33) While he was at a gas station, Donovan noticed regular gas was \$3.19, while diesel gas was \$3.42. What is the difference between the two prices?

34)  $\frac{1}{3} + \frac{1}{4} =$

$$35) 2\frac{1}{5} + 3\frac{1}{2} =$$

$$36) \frac{3}{5} - \frac{1}{2} =$$

$$37) 8\frac{1}{2} - 4\frac{1}{4} =$$

$$38) 5\frac{1}{3} - 3\frac{2}{5} =$$

$$39) \frac{4}{5} \times \frac{3}{7} =$$

$$40) \frac{1}{2} \div \frac{3}{4} =$$

$$41) 3\frac{1}{2} \times 2\frac{1}{3} =$$

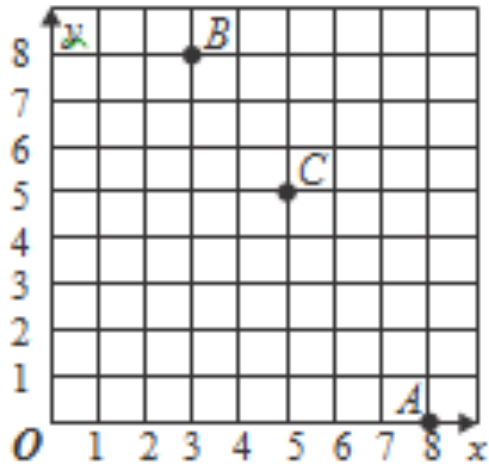
$$42) 4\frac{1}{4} \div 2\frac{5}{6} =$$

43) Harold's backyard is 12 yards wide. How many feet is this?

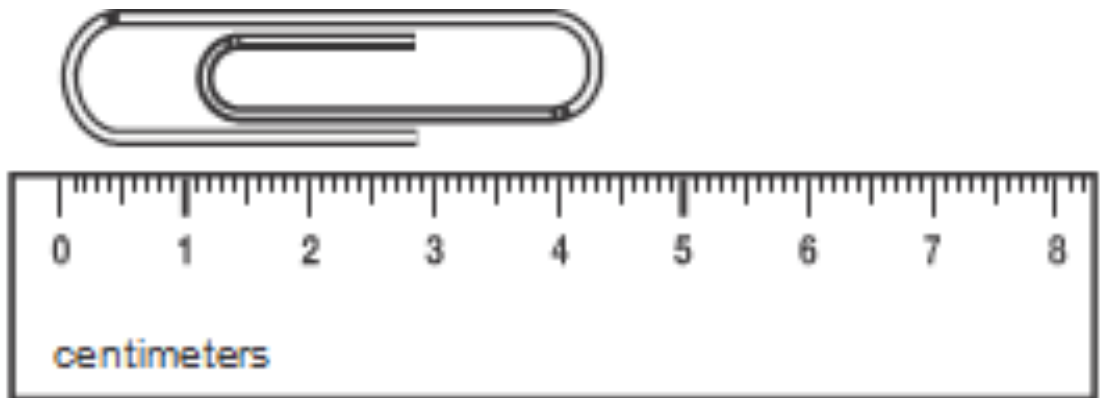
44) Anthony is building a dog house that is 3 feet in length. How many inches are in 3 feet?



45) Which of the following points has the coordinates (5, 5)?

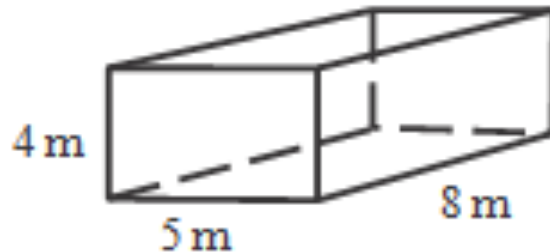


46) What is the length of the paperclip to the nearest half centimeter?

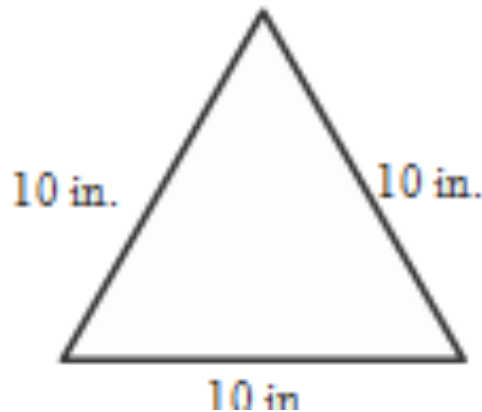


47) Daria ran 5,280 feet during a race. How many miles did she run?

48) What is the volume of the rectangular prism below? (Use  $l \times w \times h$ )



49) What would be the best classification of this triangle?



50) Tanya is designing a kitchen counter. The counter has 4 sides. One pair of opposite sides are parallel. There are no right angles. Classify the shape of the kitchen counter.