Name _____

Directions: Show all of your work. Circle or put a box around your final answer.

THE NUMBER SYSTEM

1) $4.7 - 3.28 =$

2) $42.7 + 52.12 =$

3) $1.2 \times 0.015 =$

4) $4\frac{3}{4} \times 2\frac{1}{8} =$

5) The table below shows the overnight low temperatures for a four-day period. Write the temperatures in order **from least to greatest.**

Temperatures (°F)	
Monday	-7
Tuesday	8
Wednesday	19
Thursday	-10

6) Find the greatest common factor of 18 and 24.

7) Find the least common multiple of 9 and 12.

8) A radio station is having a promotion in which every 12th caller receives a free concert ticket and every 15th caller receives a limo ride. Which caller will be the first one to win both?

RATIOS & PROPORTIONAL RELATIONSHIPS

9) Minerva paid $84 for 8 stuffed animals. How much did each stuffed animal cost? Complete the rate table.

COST	84		
NUMBER OF STUFFED ANIMALS	8		

10) The Camdens drove 120 miles on 5 gallons of gas. At this rate, how many miles can they drive on 7 gallons of gas? Complete the rate table below.

MILES	120		
GALLONS	5		

11) Michelle wants to buy a cell phone. The phone is 30% off the original price. If the original price of the phone is $135, what is the amount Michelle will save?

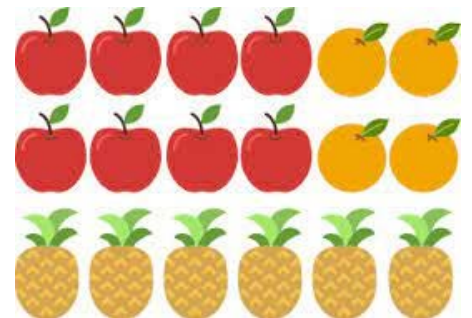$$\frac{part}{whole} = \frac{percent}{100}$$

PERCENT - the number with the percent sign (%).
PART - the number with the word is.
WHOLE - the number with the word of.

12) Sean spelled 13 out of 20 words right on his spelling test. What is his score as a percent?

13) What is the ratio of apples to pineapples?

14) What is the ratio of pineapples to all fruit?

15) The ratio of dogs to cats is 2 to 3. If there are 18 dogs, how many cats are there?

EXPRESSIONS & EQUATIONS

16) Solve for x.

   $x+9 = 15$

17) Use the distributive property to solve.

   $3(x-2)$

18) Write the verbal expression as an algebraic expression.

Five less than a number ➜ _____

19) Write the verbal expression as an algebraic expression.
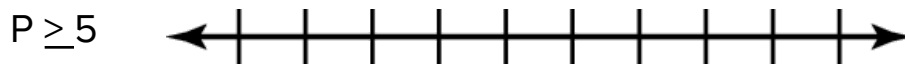
Six more than twice a number ➜ _____

20) Write an inequality for the given situation. Then write 3 numbers that would make the situation true.

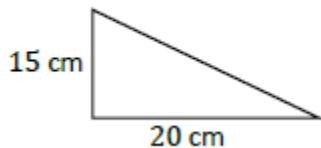**The temperature was less than 32° Fahrenheit.**

Inequality: _____
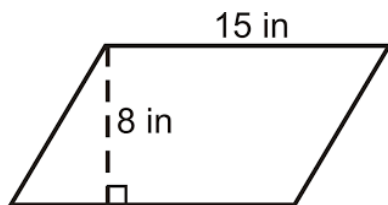
Numbers: _____, _____, _____

21) Graph the inequality.

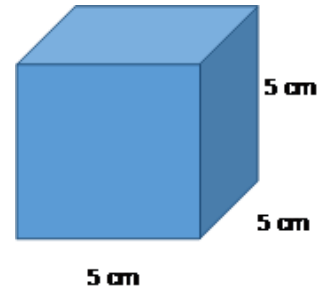$P \geq 5$

GEOMETRY

22) Find the area of the triangle below.

15 cm

20 cm

23) Find the area of the parallelogram.

15 in

8 in

24)   Calculate the surface area of the cube.

5 cm

5 cm

5 cm

STATISTICS

25)   Write two facts about the dot plot.

A.

B.

0 1 2 3 4 5 6 7 8 9 10 11 12
Minutes To Eat Breakfast
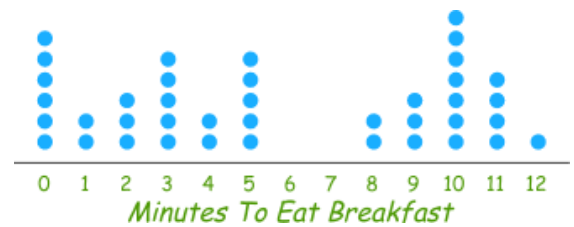
26)   Use the histogram to answer the following question. How many children are over 45 inches in height?

Heights of the Children

Frequency

10
8
6
4
2

30   35   40   45   50   55   60

Heights in inches
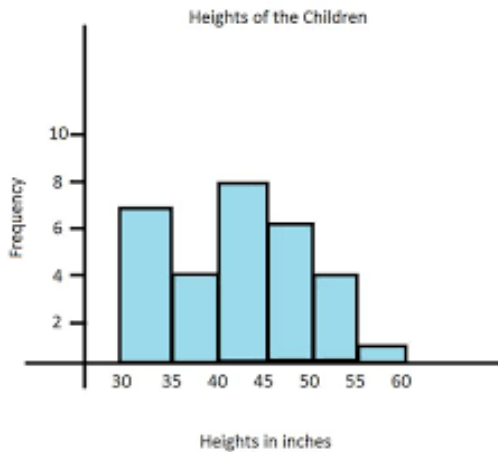
27) Find the median of the data set: 2, 6, 3, 0, 1, 9, 1, 3, 4, 1

28)   Find the mode of the data set above.

29) Find the mean of the data set above.

30)   Find the range of the data set above.

Dear EVCS Math Students and Families,

Hello, summer! You have worked very hard in 6th grade learning new math skills and perfecting older ones. To not lose progress on all the hard work you have made during the 2020-2021 school year, you will have a summer math assignment to work on over the next two months, so that you are ready to jump into 7th grade math in the fall!

Below you will find specific directions for the math summer work. Each student must complete the assignment, which will be due on ==the first Friday back from summer break??.==

Entering 7th Grade Math Summer Work:

- Students are to complete each problem in the packet.
- Students must SHOW ALL WORK that leads to their answer.
- If a student does not know how to complete a problem, they must circle the part of the problem they do not understand and identify what they do not understand using a written statement.

Please feel free to email jpepe@elmwoodvillageschool.org if you have any questions regarding this assignment.

Have a safe, happy and relaxing summer!

- The EVCS 6th Grade

Helpful Information:

There are three ways to write ratios.

Statement	Ways to Write a Ratio		
	In Words	With a Symbol	As a fraction
4 puppies to 2 kittens	4 to 2	4:2	$\frac{4}{2}$

Adding & Subtracting Decimals

Steps:
1. Stack your decimals.
2. Put placeholders (zeroes) in empty spaces, if needed.
3. Drop your decimal point.
4. Add or Subtract

$$\begin{array}{r} 34.567 \\ + 65.371 \\ \hline 99.938 \end{array}$$

AREA FORMULAS

RECTANGLE

A=bh

A=bh
A=6*5
A=30

PARALLELOGRAM

A=bh

A=bh
A=8*4
A=32

TRIANGLE

A= ½ bh or $\frac{bh}{2}$

A= ½ bh
A= ½*4*3
A= ½*12
A=6

GRAPHING INEQUALITIES

	OPEN O	CLOSED ●
LEFT ←	$<$	$\leq$
RIGHT →	$>$	$\geq$

ASK YOURSELF...
1- Where is the Point?
2- Is the Point Open or Closed?
3- Is the Shading to the Left or Right?

Mean — the average of a set of numbers

Median — the middle number in a set of data

Mode — the number which appears most often in a set of numbers

Range — the difference between the lowest and highest numbers in a data set