7TH Grade Math EXIT TEST – Part 2

WORD PROBLEMS

Subtraction Word Problems

1. A museum had 710 paintings. After they got rid of some, they had 488 left. How many paintings did they get rid of? _____ - _____ = _____

2. A store had 800 sodas. After a sale they had 365 left. How many did they sell?

   _____ - _____ = _____

Addition Word Problems

1. Oliver bought some cupcakes for a party. During the party 900 were eaten. Now he has 175. How many cupcakes did Oliver get for the party? _____ + _____ = _____

2. At a bus stop 108 people got off the bus. Now there were 15 people on the bus. How many people were on the bus before? _____ + _____ = _____

Multiplication Word Problems

1. There are 8 birds perched on the branches of a tree. How many feet are there on the branches? _____ x _____ = _____

2. There are 9 butterflies in a cage. Each butterfly has 6 **black** dots and 5 **yellow** dots. How many **black** dots are there in all? _____ x _____ = _____

Division Word Problems

1. Mia had 40 pencils. She divided them into groups of 4. How many groups did she put them into? What division fact helped you know this? _____ ÷ _____ = _____

2. The Pancake Restaurant served 32 pancakes. If 8 customers ate an equal number of pancakes, how many did each person eat? _____ ÷ _____ = _____

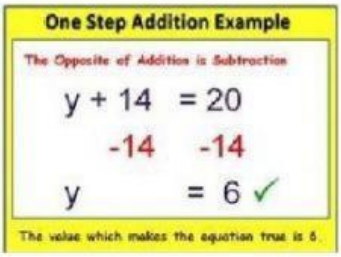
Word Problems Using Percentages: (Must include dollar signs and other measurements)

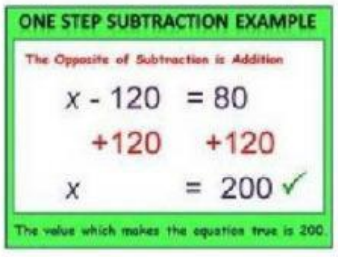
1. Decrease $500 by 30% _____
2. Increase 4 km by 28% _____
3. Simon bought a radio for $420 and sold it for a 12% profit.
   How much did he sell it for? _____

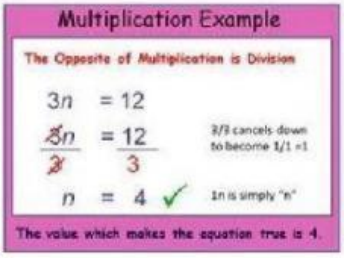
LIVEWORKSHEETS

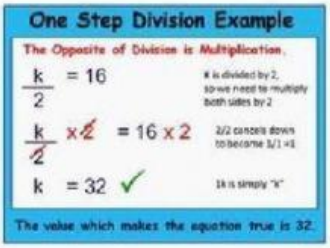
EXPRESSION & EQUATIONS

One Step Equations









1. $a + 4 = 10$

   $a =$ ____

2. $f - 7 = 13$

   $f =$ ____

3. $5j = 25$

   $j =$ ____

4. $\frac{p}{2} = 4$

   $p =$ ____

Simplifying Addition & Subtraction Expressions

1. 10k – 6k = _____
2. 7b – 3b = _____
3. 5c + 4c = _____
4. 9f + 2f = _____

Simplifying Multiplication & Division Expressions

1. 2x + 4 Let x = 8 _____

2. 7n + 2r - 9 Let n = 3 and r = -3 _____

Multi-Step Equations

distribute - clear parentheses

combine like terms - either side of the equation should only have "unlike" terms

isolate the variable term - add or subtract the constant term

$11x + 4 = 48$

$-4 \quad -4$

$\frac{11x}{11} = \frac{44}{11}$

$x = 4$

$11(4) + 4 = 48$

$44 + 4 = 48$

$48 = 48$ ✓

1. 5g + 2 – g = 22

   5g – 1g = ___ g

   ___ g + 2 = 22

   4 x ___ = 20

   ____ + 2 = 22

   g = _____

2. 6y + 4 – 3y = 13

   6y – 3y = ___y

   3y + 4 = 13

   3 x 3 = ____

   9 + ____ = 13

   y = ____

LIVEWORKSHEETS

Inverse Operations

since 1 + 3 = 4
then 4 - 1 = ☐

since 9 + 2 = 11
then 11 - 9 = ☐

since 3 + 5 = 8
then 8 - 3 = ☐

since 2 + 3 = 5
then 5 - 2 = ☐

since 7 + 7 = 14
then 14 - 7 = ☐

since 3 + 9 = 12
then 12 - 3 = ☐

GRAPHING & LINEAR EQUATIONS

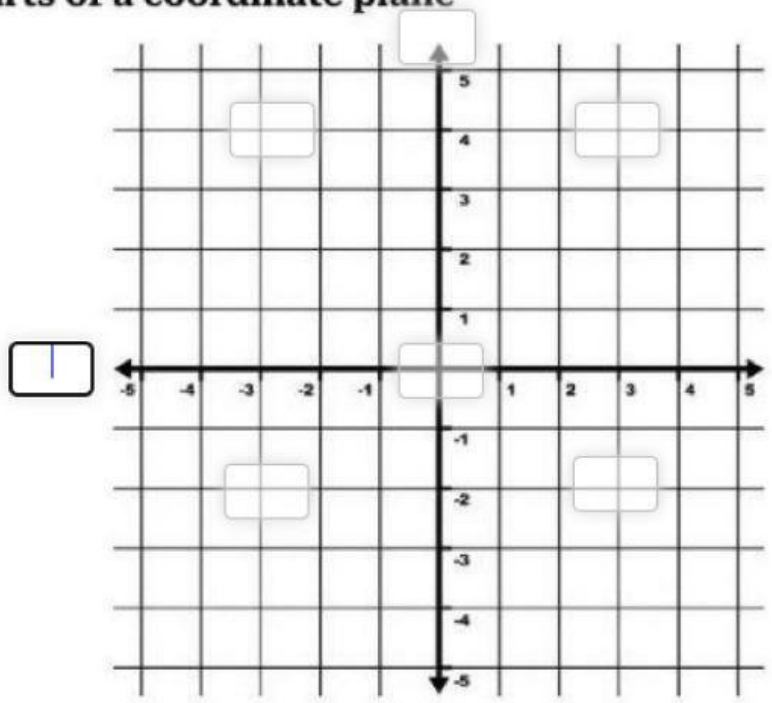
Cartesian Coordinate System (Coordinate Plane)

Hint: Label each section with the correct X, Y axis, or the number I, II, III, IV

Parts of a coordinate plane

Label the:

1. X-axis
2. Y-axis
3. Origin
4. Quadrant I
5. Quadrant II
6. Quadrant III
7. Quadrant IV

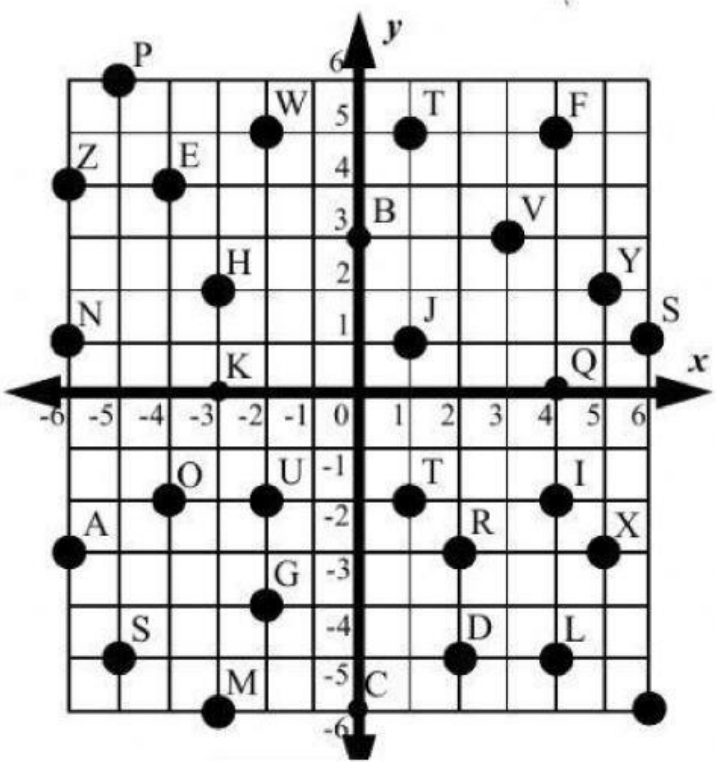


LIVEWORKSHEETS

Plotting Points

Hint: Axis **X** is the 1st coordinate and Axis **Y** is the 2nd coordinate.
Answers must be written in this format: (2, -4) or (1, 5)

Give the co-ordinates for the points on the number plane below.



1 Point A _____

2 Point B _____

3 Point C _____

4 Point D _____

5 Point E _____

6 Point F _____

Linear Equations

1. X + 5 = 12

X = ____ - ____

X = _____

2. Y – 3 = 15

Y = ____ + ____

Y = ____

3. 6 + H = 9

H = ____ - ____

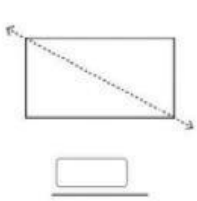
H = ____

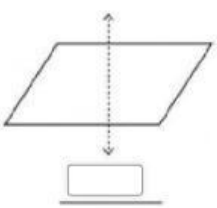
LINES AND TRIANGLES

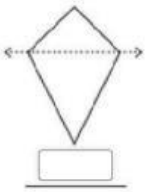
Lines of Symmetry

Is the dotted line on each shape a line of symmetry? Write yes or no.

1) 

2) 

3) 

4) 

LIVEWORKSHEETS

Rotational Symmetry

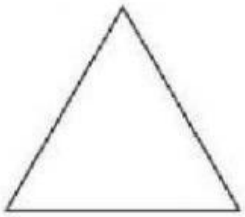
Find the order of rotational symmetry in the following shapes:

1.



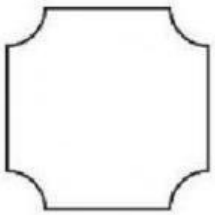
a) 4
b) 5
c) 2
d) 3

2.



a) 1
b) 4
c) 3
d) 2

3.

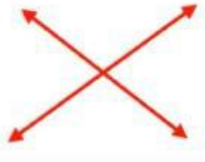


a) 3
b) 2
c) 5
d) 4

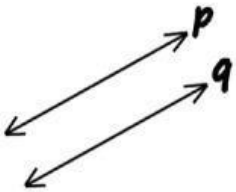
Parallel Lines

Write Yes if the diagrams below show parallel lines or No if they do not

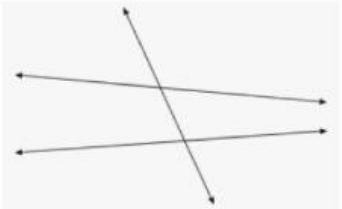
- Parallel lines do not meet.
- The distance between parallel lines is always the same.



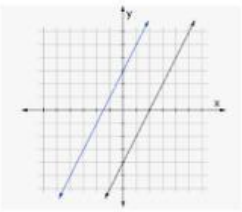
_____



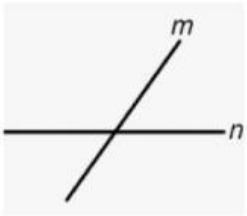
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_____



_____

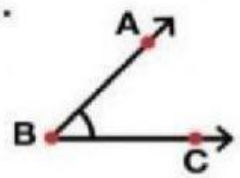


_____

Types of Angles

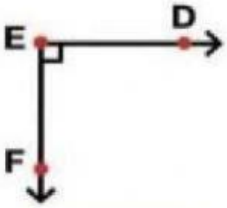
Label each angle as acute, obtuse, or right.

1.



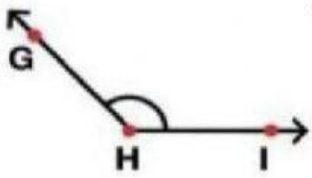
_____

2.



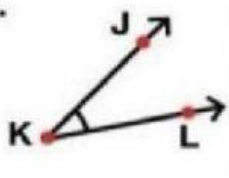
_____

3.



_____

4.



_____

LIVEWORKSHEETS