ALGEBRA REVIEW - DAY 1

Like Terms contain the same variables, with corresponding variables having the same powers.

List some *like terms*:

List some terms that are not like terms:

You combine like terms to SIMPLIFY an expression – not necessarily get one numeric answer!

EXAMPLES: SIMPLIFY each expression.

1.
$$7x - 5 - 3y - 10x + 8y - 8$$

2.
$$-2x - 6 + 9y - 3x - 9y$$

3.
$$7x - y - z - x - y + z$$

4.
$$4xy - 4xz + 7xy - 11yz$$

Determine whether the equation below is true or false, and then tell how the two sides of the equation differ.

5.
$$4(3+2) = 4 \cdot 3 + 4 \cdot 2$$

The equation above demonstrates the use of the <u>distributive property</u>. When the distributive property is used, the numbers in a sum or difference are BOTH <u>multiplied</u> by the same value.

EXAMPLES: SIMPLIFY each expression. Remember PEMDAS!

6.
$$3(x + 4) - 4x + 2 =$$

7.
$$5-2(x-3) =$$

9.
$$2(7x + 5) - (x + 4) - 2(2x - 1) =$$

To SOLVE an equation, you reverse PEMDAS to get one numerical answer!

SOLVE each equation.

10)
$$x + 12 = 7$$

11)
$$c - 9 = 13$$

13)
$$\frac{a}{-3} = 4.2$$