Semester 2



Review of Equations from Grade 8

How to wrap a present...







Warm-Up

BEDMAS

January 29, 2020

What do you remember from GRADE 8???

Solve for the unknown

A.
$$3x = 18$$

 $x = 6$

B.
$$8d - 2 = 6$$

$$8d - 2 = 6$$

$$8d - 2 = 6$$

Rewrite so the variable is on the left side

$$-10 = 3 - 4x$$

$$\sqrt{30100}$$

$$\sqrt{30100}$$

$$-4x + 3 = -10$$

$$-4x + 3 - 3 = -10 - 3$$

$$-4x = -13$$

$$-4$$

$$-4$$

$$x = \sqrt{3}$$

$$x = 3.25$$

What is the difference between an expression and an equation???

Expression-- A mathematical statement made up of numbers and/or variables connected by operations 5n + 4

Equation---A mathematical statement in which two expressions are equal.

$$5n + 4 = 2$$
 $5n + 4 - 4$
 $2 - 4$
 $5n + 4 - 4$
 $2 - 4$
 $5n + 4 - 4$
 $2 - 4$
 $5n + 4 - 4$
 $3 - 4$
 $5n + 4 - 4$
 $5n + 4$
 $5n + 4 - 4$
 $5n + 4$

Chapter 6 Linear Equations and Inequalities

- To solve equations we need to undo operations.
- Inverse operations reverse each other's results.
- Addition and subtraction are inverse operations
- Multiplication and division are also inverse operations
 Perform the inverse operations in the reverse order

Let's Look at a Basic Equation to remind you how this works... Undo the operation

a)
$$3x = 27$$

b)
$$x - 4 = 10$$

C.
$$-27.25 = c + 2.25$$

 $c + 2.25 = -27.25$
 $c + 2.25 = -27.25$
 $c + 2.25 = -27.25$
 $c = -29.5$

D.
$$3x = 15.6$$

 $x = 5.2$

E.
$$-76.05 = -9b$$

$$-9b = -76.05$$

$$-9b = -76.05$$

$$-96 = -96$$

$$-96 = -96$$

$$-96 = -96$$

$$-96 = -96$$

F.
$$\frac{w}{4.5} = -3.5$$