Semester 2

Math 9

Review of Equations from Grade 8

lesson 1.notebook February 03, 2017

How to wrap a present...





BEDMAS

Warm-Up

February 3, 2017

What do you remember from GRADE 8???

Solve for the unknown

A.
$$\frac{3x = 18}{3}$$
 $\frac{3}{3}$

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

$$8d - 2 = 6 + 2$$

$$8d - 8 = 8$$

Rewrite so the variable is on the left side -10 = 3 - 4x

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

$$\frac{1}{4}x^{2} - \frac{13}{4}$$
 $\frac{13}{4}$
 $\frac{13}{4}$
 $\frac{3}{4}$

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.

- 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)
$$3x = 27$$
 Focus on showing! Steps:
$$\chi = 9$$

b)
$$x - 4 = 10$$

 $x - 4 = 10 + 4$
 $x = 14$

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

$$c + 2.25 = -27.25$$

$$c + 2.25 = -27.25$$

$$c + 2.25 = -27.25$$

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

C.
$$-76.05 = -9b$$
D. $\frac{w(x)}{4.5} = -3.5(4.5)$
 $w(x) = -3.5(4.5)$

$$\frac{d}{7} - 3 = 11$$

$$\frac{d}{7} - 3 + 3 = 11 + 3$$

$$\frac{d}{7} = 14(7)$$

$$\frac{d}{7} = 14(7)$$

$$\frac{d}{7} = 98$$

$$-16 = \frac{p}{6} + 2$$

$$-16 = \frac{p}{6} + 2 = -16$$

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Page 272

#8

SHOW ALL STEPS

Practice The Steps!