### **FEBRUARY 15, 2016**

UNIT 5: LINEAR EQUATIONS AND INEQUALITIES

SECTION 6.1: SOLVING EQUATIONS BY USING INVERSE OPERATIONS

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#### WHAT'S THE POINT OF TODAY'S LESSON?

We will continue working on the Math 9 Specific Curriculum Outcome (SCO) "Patterns and Relations 3" OR "PR3" which states:

"Model and solve problems using linear equations in a variety of forms (ax = b; ax + b = c; ax + b = cx + d; a(bx + c) = d(ex + f) etc.) concretely, pictorially and symbolically where a, b, c, d, e and f are rational numbers."



## What does THAT mean???

SCO PR3 means ALGEBRA!!!



#### **WARM UP:**

# SOLVE AND VERIFY THE FOLLOWING EQUATION:

$$\frac{3}{5} - 4p = \frac{67}{6}$$

$$\frac{3}{5} - \frac{3}{6}(\frac{4}{4}) = \frac{35}{6}(\frac{64}{4})$$

$$18 - 120p = 335$$

$$18 - 120p = 317$$

$$-120$$

$$p = -\frac{317}{120}$$

$$\frac{3}{5} - \frac{4p}{120}$$

$$\frac{3}{5} - \frac{4p}{120}$$

$$\frac{3}{5} - \frac{4p}{120}$$

$$\frac{3}{5} - \frac{317}{120}$$

$$\frac{3}{5} - \frac{317}{30}$$

$$\frac{3}{5} - \frac{5}{5}$$

$$\frac{67}{30}$$

$$\frac{3}{5} - \frac{5}{5}$$

$$\frac{67}{30} - \frac{317}{120}$$

$$\frac{3}{5} - \frac{5}{5}$$

$$\frac{67}{30} - \frac{317}{120}$$

$$\frac{3}{5} - \frac{5}{5}$$

$$\frac{67}{30} - \frac{317}{120}$$

$$\frac{3}{5} - \frac{5}{5}$$

$$\frac{67}{30} - \frac{5}{5}$$

## **HOMEWORK QUESTIONS???**

(page 274, #20, #22 and <u>#24</u>; days page 286, #4 and #5)

$$\frac{34.4}{8} + 109 = \frac{62}{5} \quad Lcm = 40$$

$$\frac{5}{70}(22) + 40(109) = \frac{40}{10}(62)$$

$$110 + 4009 = 496$$

$$110 + 4009 - 110 = 496 - 110$$

$$\frac{4009}{9} = \frac{386 \div 2}{400} \div 2$$

$$9 = \frac{193}{200}$$

#### **CONCEPT REINFORCEMENT:**

WORKSHEET (ax + b = c): #1 TO #16

Please don't forget to check your answers on the back of the sheet - this is part of your homework.

HEADS UP - QUIZ TOMORROW! There will be a short quiz on Section 6.1 tomorrow, Feb. 16, on one-step and two-step equations, the distributive property, equations with one denominator and two denominators and verifications.