### Extended Warm-Up 9/14/17

**One-Step Equations** 

Solve each equation.

$$\frac{1)}{8} = 8 + v$$

3) 
$$15 + b = 23$$
  
 $-15$   $-15$   $-15$ 

5) 
$$m + 4 = -12$$
  
 $-4$   
 $-16$ 

$$\frac{2}{8} + p = 8$$

$$\sqrt{P = 5}$$

4) 
$$-15 + n = -9$$
  
+15 +15

6) 
$$x - 7 = 13$$
  
 $+7 + 7$   
 $\times = 20$ 

7) 
$$m-9=-13$$
  
 $+9$   
 $M = -4$ 

9) 
$$v - 15 = -27$$
  
 $+15 + 15$   
 $V = -12$ 

8) 
$$p-6=-5$$
  
+6+6  
 $P=1$ 

10) 
$$n + 16 = 9$$

$$-16 - 16$$

$$-17$$

$$\frac{11) -104 = 8k}{8}$$

$$-13 = X$$

$$\begin{array}{c|c} 18 \\ 13) - 6 = \frac{b}{18} + 8 \\ \hline -108 = b \end{array}$$

$$\begin{array}{c|c}
 12) & 14b = -56 \\
 \hline
 14 & 14 \\
 \hline
 0 = -4
 \end{array}$$

$$14) \quad 10n = 40$$

$$10$$

Module 4: Equations & Inequalities. 9/14/17

Standard:

MFAEI1: Create and solve equations and inequalities in one variable and justify solutions.

### Essential Question 9/14/17

 How can I solve one-step and two-step equations with one variable?

### Objective:

 To master solving one-step and two-step equations with one variable.

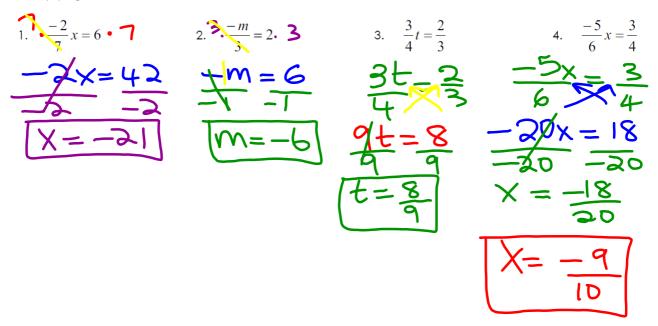
## Home Work Review: Solving Equations

# 1 - 14

# Solve Equations with Fractions Guided Practice 1 #1 - 10

Day 2 - Solving Equations with Fractions

Solve each equation by either multiplying by the reciprocal, multiplying a common denominator, or cross multiplying.



Solve 
$$\frac{2}{3}$$
  $\frac{1}{3}$   $\frac{1}{3}$ 

8. 
$$\frac{3}{4}(2x+1)=2$$
9.  $\frac{2}{3}(3x+1)=5$ 
10.  $2y-\frac{3}{3}=\frac{1}{2}$ 
10.  $2y-\frac{3}{3}=\frac{1}{2}$ 
10.  $2y-\frac{3}{3}=\frac{1}{2}$ 
11.  $2y-\frac{3}{3}=\frac{1}{2}$ 
12.  $4x+\frac{3}{4}=8$ 
13.  $4x+\frac{3}{4}=8$ 
14.  $4x+\frac{3}{4}=8$ 
15.  $2x+\frac{3}{4}=8$ 
16.  $2x+\frac{3}{4}=\frac{1}{2}$ 
16.  $2y-\frac{3}{4}=\frac{1}{2}$ 
17.  $2x+\frac{3}{4}=\frac{1}{2}$ 
18.  $4x+\frac{3}{4}=\frac{1}{2}$ 
19.  $2x+\frac{3}{4}=\frac{1}{2}$ 
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#### Home Work Due Tomorrow!

Day 2 - Creating and Solving Equations Practice

Write an equation that can be used to model the following problem. Finally, use your equation to SOLVE the problem.

$$X + (X + 1) + (X + 2) = 114$$

$$3X + 3 = 114$$

$$-3 = 3$$
Jennifer, Jennifer has \$6 less than Shannon. Together they have \$54. How

4. Alex has twice as much money as Jennifer. Jennifer has \$6 less than Shannon much money does each person have?

van non: X

5. Four friends are trading basketball cards. Bill gets 3 cards less that Bill. Shawn gets twice as many as Michael. How many cards does each be