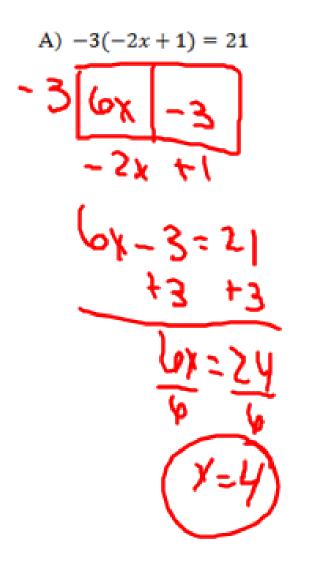
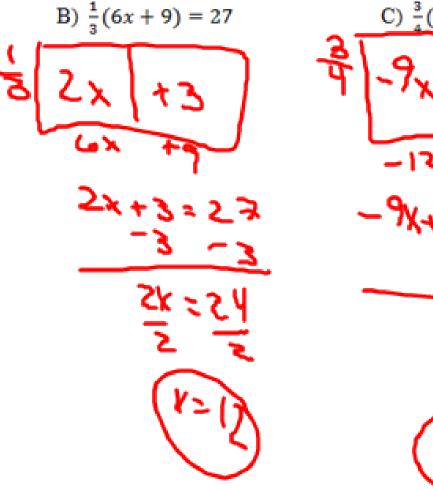
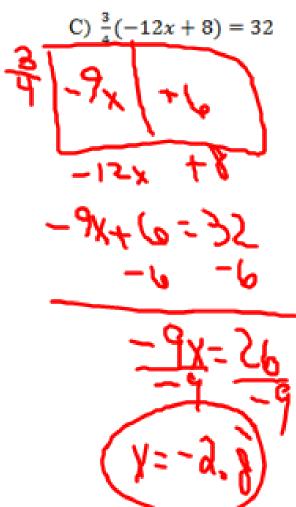
Quiz tomorrow on solving equations! Grab a Warm Up from the front table.

## Classwork - Quiz Review







D) 
$$-3(x+4)+1=19$$

$$-3 -3x -12 +11 = 19$$

$$-3x -12 +11 = 19$$

$$-3x -30$$

$$-3 -3$$

$$x -10$$

$$x -10$$

$$E) 4(-2x+5) + 4x = -12$$

$$4 - 8x + 20$$

$$-2x + 5$$

$$-4x + 20 = -12$$

$$-4x + 20 = -12$$

$$-14x = -32$$

$$-14x = -32$$

$$-14x = -32$$

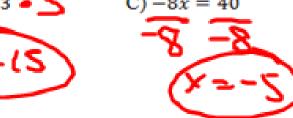
$$-14x = -32$$

## Solving One-Step Equations

- 1) What operation(s) are acting on the variable?
- How do you undo that operation? → Make sure do to this on BOTH SIDES.

Solve the following one-step equations. Make sure to show inverse operations on **BOTH sides and WORK DOWN. SHOW ALL WORK**. Guess and Check is not a method to use anymore.

$$B) \sqrt{\frac{x}{5}} = -3 - \sqrt{5}$$



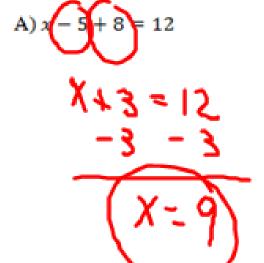
$$D) x - 15 = -6$$

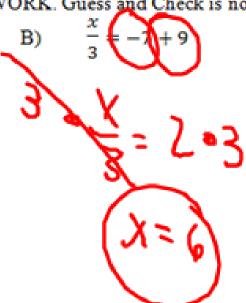
$$+ 15 + 15$$

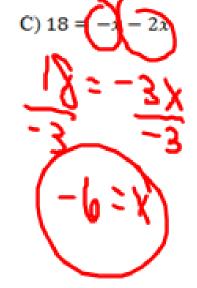
$$X = 9$$

## Simplifying Before Solving One-Step Equations

 Simplify and THEN solve the following one-step equations. Make sure to show inverse operations on BOTH sides and WORK DOWN. SHOW ALL WORK. Guess and Check is not a method to use anymore.







D) 
$$-5x - 7x = -36$$

E) 
$$8 + x - 6 = 12$$

F) 
$$3x - 8x = -9 - 6$$

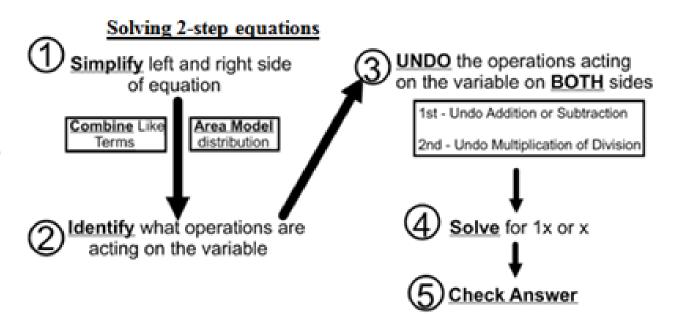
G) 
$$-10 + 4 = -5x + 3x$$

H) 
$$-4x - 6x = -44 + 14$$
 I)  $-3x - 4x = -8 - 6$ 

I) 
$$-3x - 4x = -8 - 6$$

## Solving Equations

Please use the steps shown to the right to solve all equations. If the equation is already simplified (Step 1) move on to Step 2 of the process.



Solve the following 2-step equations. SHOW ALL WORK

A) 
$$3x + 8 = 23$$

B) 
$$\frac{t}{3} - 4 = 8$$

C) 
$$-6x - 9 = -27$$

B) 
$$\frac{t}{3} - 4 = 8$$
 C)  $-6x - 9 = -27$  D)  $\frac{t}{2} + 10 = 8$ 

E) 
$$-7x + 12 = 54$$

F) 
$$-x + 8 = -3$$

G) 
$$\frac{1}{2}t + 8 = -4$$

E) 
$$-7x + 12 = 54$$
 F)  $-x + 8 = -3$  G)  $\frac{1}{2}t + 8 = -4$  H)  $-\frac{1}{3}t + 4 = 2$ 

$$-5x + 7 = 52$$

J) 
$$\frac{t}{r} - 7 = -2$$

I) 
$$-5x + 7 = 52$$
 J)  $\frac{t}{5} - 7 = -2$  K)  $\frac{1}{4}t + 10 = 4$  L)  $-6x - 4 = -4$ 

L) 
$$-6x - 4 = -4$$

M) 
$$8 + 4x = 28$$

N) 
$$84 = -9x - 6$$

O) 
$$-13 + 5x = 22$$

Solve the equations with fractions below. Remember, you can write  $\frac{2}{3}x = \frac{2x}{3}$ . Once you do this, you can undo the division on BOTH sides, rewrite the simpler equation, then undo the division on BOTH sides to find the answer.

A) 
$$\frac{2}{5}x = 30$$

B) 
$$\frac{1}{3}x = -12$$

C) 
$$\frac{-3}{4}x = -9$$

D) 
$$\frac{3}{8}x = -21$$

E) 
$$32 = -\frac{1}{4}x$$

F) 
$$18 = \frac{3}{2}x$$

G) 
$$-\frac{1}{4}x + 7 = 10$$

H) 
$$\frac{3}{4}x - 12 = 9$$

I) 
$$\frac{2}{5}x + 9 = 13$$