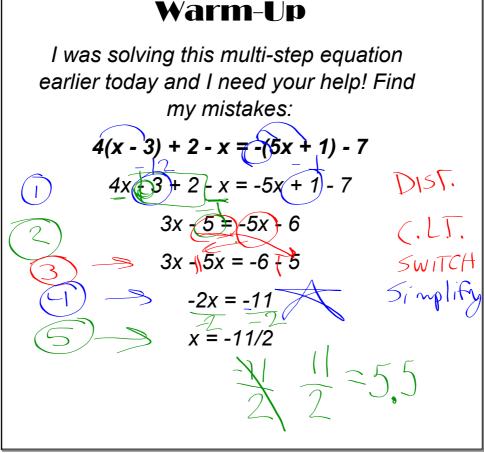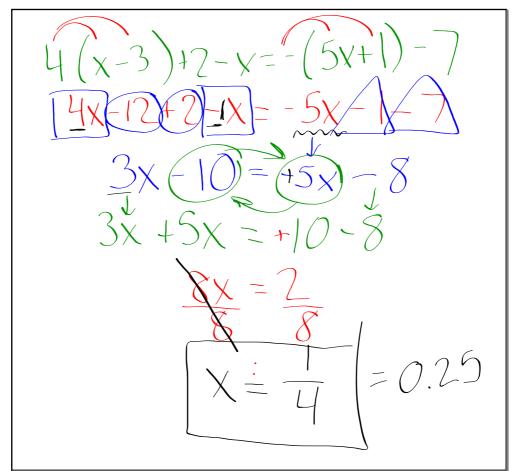# As soon as you walk in:

1. Find your seat and sit down
2. Take out the homework assignment from Monday ("Multi-Step Equation Practice") and place it in the upper right hand corner of your desk
3. Take out a pencil and a piece of scrap paper in preparation for our warm-up

Sep 30-8:56 AM

Warm-Up

I was solving this multi-step equation earlier today and I need your help! Find my mistakes:

$$4(x - 3) + 2 - x = -(5x + 1) - 7$$

$$4x + 3 + 2 - x = -5x + 1 - 7$$

$$3x - 5 = -5x - 6$$

$$3x - 5x = -6 - 5$$

$$-2x = -11$$

$$x = -11/2$$

①

②

③

④

⑤

DIST.

C.LT.

SWITCH

Simplify

$$\frac{-2x}{2} \quad \frac{11}{2} = 5.5$$

Sep 30-8:51 AM

$$4(x-3)+2-x = -(5x+1)-7$$

$$4x - 12 + 2 - x = -5x - 1 - 7$$

$$3x - 10 = +5x - 8$$

$$3x + 5x = +10 - 8$$

$$8x = 2$$
$$\frac{8x}{8} = \frac{2}{8}$$

$$x = \frac{1}{4} = 0.25$$

Sep 30-10:40 AM

$$\underline{2(x-8) = x - 3}$$

Step	Required?	Work
Distribute	(yes)/no	$2(x-8) = x - 3$ $2x - 16 = x - 3$
Combine Like Terms	yes/(no)	✕
Switch Sides	(yes)/no	$2x - 16 = x - 3$ $2x - x = +16 - 3$
Combine Like Terms and Simplify	(yes)/no	$x = 13$

Sep 30-8:58 AM

$$3x - 6 + 5x = 4x + 8 - 2$$

Step	Required?	Work
Distribute	yes/no	
Combine Like Terms	yes/no	$3x - 6 + 5x = 4x + 8 - 2$ $8x - 6 = 4x + 6$ $8x - 4x = 6 + 6$
Switch Sides	yes/no	
Combine Like Terms and Simplify	yes/no	

Sep 30-9:19 AM

$$4(2 - x) + 3 = 3(x - 1)$$

Step	Required?	Work
Distribute	yes/no	
Combine Like Terms	yes/no	
Switch Sides	yes/no	
Combine Like Terms and Simplify	yes/no	

Sep 30-9:19 AM

3

$$-(2x + 5) = 9(x + 4) - 5$$

Step	Required?	Work
Distribute	yes/no	
Combine Like Terms	yes/no	
Switch Sides	yes/no	
Combine Like Terms and Simplify	yes/no	

Sep 30-9:19 AM