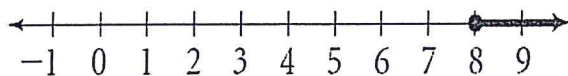


Algebra 1 Bellwork Friday, November 13, 2015

1. Joleen is a sales associate in a clothing store. Each week she earns \$250 plus a commission equal to 3% of her sales. This week her goal is to earn at least \$460. Write and solve an inequality to find the dollar amount of the sales she must have to reach her goal.

2. Find a value of a such that the number line below shows all the solutions of $ax + 4 \leq -12$



3. Explain the difference between "4 greater than x " and $4 > x$

Algebra 1 Bellwork Friday, November 13, 2015

1. Joleen is a sales associate in a clothing store. Each week she earns \$250 plus a commission equal to 3% of her sales. This week her goal is to earn at least \$460. Write and solve an inequality to find the dollar amount of the sales she must have to reach her goal.

$S = \text{weekly sales}$

$$250 + (.03)S \geq 460$$

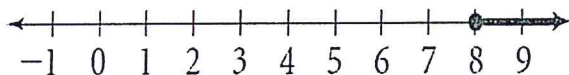
-250 -250

$$S \geq \$7000$$

3% $\rightarrow .03$

$$\frac{.03S}{.03} \geq \frac{210}{.03}$$

2. Find a value of a such that the number line below shows all the solutions of $ax + 4 \leq -12$



$$ax + 4 \leq -12$$

-4 -4

$$x \leq \frac{-16}{a}$$

$$\frac{ax}{a} \leq \frac{-16}{a}$$

To get 8 a must be -2 which

would also flip the inequality to get \geq

$$a = -2$$

3. Explain the difference between "4 greater than x " and $4 > x$

4 greater than x means $x + 4$

$4 > x$ actually means all #'s less than 4

