

# **Chapter 5**

# **Inequalities**

## Warm Up-

When you see the signs  $\leq$   $<$   $>$   $\geq$

what do you think about. List as many things as you can.

- greater
- open part goes to bigger #
- greater or equal to
- less than

$<$  This sign means "less than"

$>$  This sign means "greater than"

$\leq$  This sign means "less than or equal to"

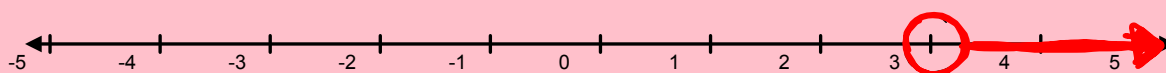
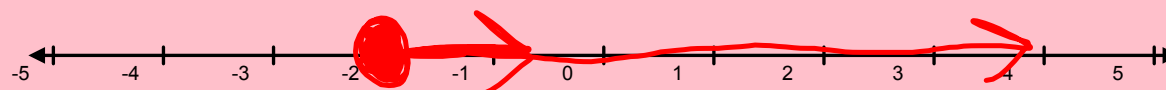
$\geq$  This sign means "greater than or equal to"

Graphing Inequalities on a number line.

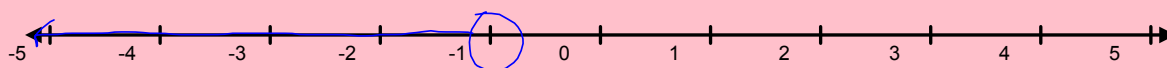
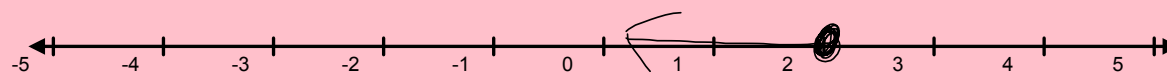
$\leq$  and  $\geq$  tell us to use a closed dot when graphing. Ex: ●

$<$  and  $>$  tell us to use an open dot when graphing. Ex: ○

## Graphing Inequalities-

Graph  $x > 3$ Graph  $x \geq -2$ 

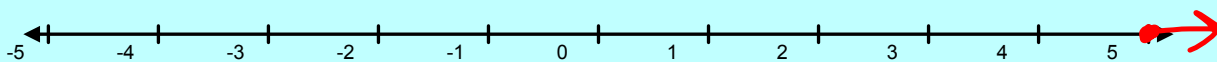
## Graphing Inequalities-

Graph  $x < -1$ Graph  $x \leq 2$ 

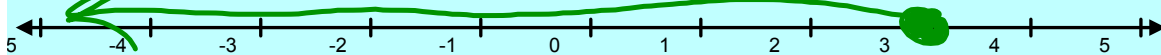
**Your Turn!**

**Complete the worksheet by graphing each inequality. Whatever you don't finish is HW**

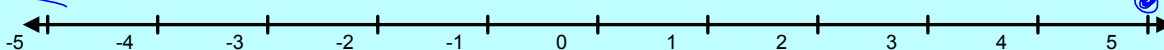
$$f \geq 5$$



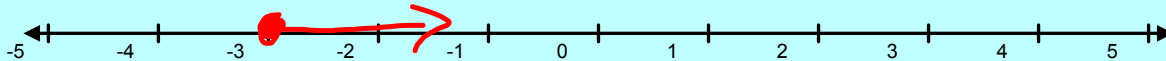
$$n \leq 3$$



$$x \leq 5$$



$$c \geq -3$$



$$g < 4$$

$$m > -3$$

$$h \leq -2$$



