

January 5, 2015^{1st} Starter^{2nd}



Place three + or - symbols between the following numbers to make a true equation.

$$1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9 = 100$$

You cannot rearrange the numbers.

snowhouse

1/5 - Graphing Inequalities

$<$ less than

$>$ greater than

\leq less than or equal to

\geq greater than or equal to

What do these mean?

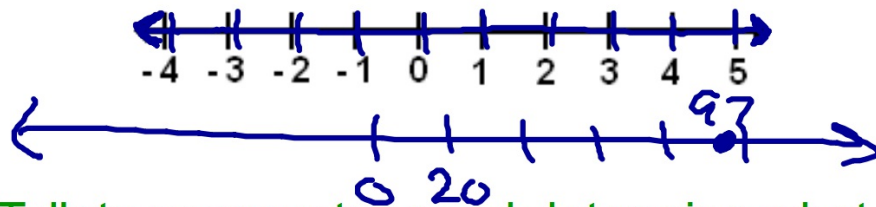
$x < 3$ all values of x are less than 3

$n > 2$ values of n must be bigger than 2

$a \leq -1$ all values of a must be smaller than -1
or exactly -1

$b \geq -2$ values of b must be bigger than -2
or exactly -2

Answers to inequalities are graphed on numberlines.



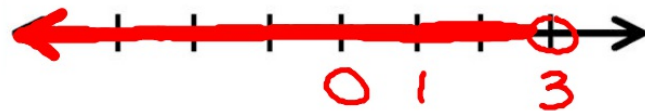
Talk to your partner and determine what **EVERY** graphed answer **must** have:

- *arrows on both ends*
- *equally-spaced marks all along the line*
- *number labels - at least these 3:*
 1. *Zero*
 2. *the number you are counting by*
 3. *the number you are graphing*

Graph each of the following:

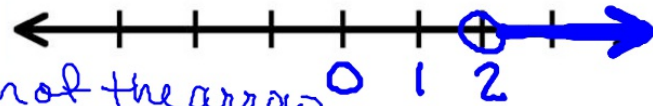
Use an open circle since it cannot = 3

$$x < 3$$



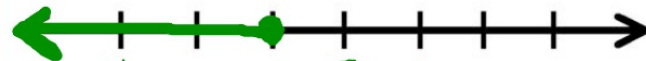
$$n > 2$$

Shade in the direction of the arrow
if the variable comes first

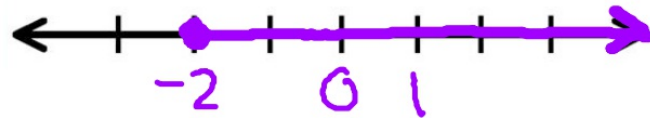


$$a \leq -1$$

Use a closed circle since it can
= -1



$$b \geq -2$$



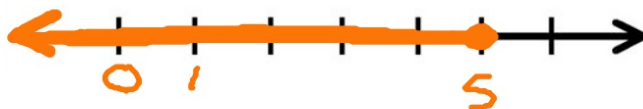
Graph each of the following:

Flip it!

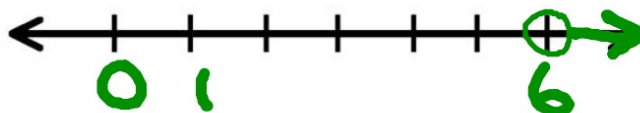
Wrong
since the
variable is
on the right

~~$5 \geq x$~~

$x \leq 5$

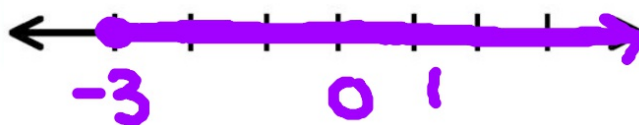


$b > 6$



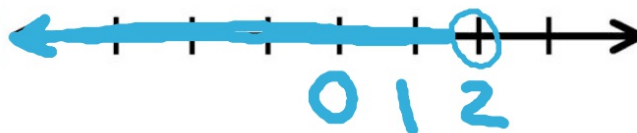
$-3 \leq k$

$k \geq -3$

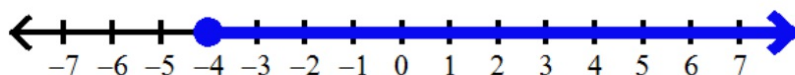


$2 > n$

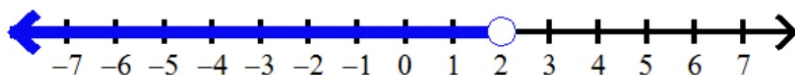
$n < 2$



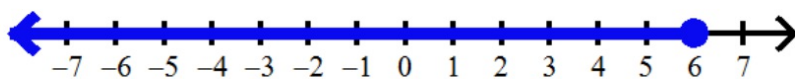
Write the inequality for each of these number lines:



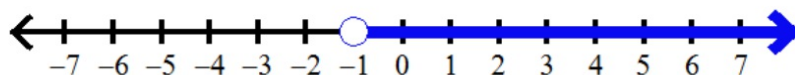
$$n \geq -4$$



$$g < 2$$



$$L \leq 6$$



$$p > -1$$



Homework

Gold WS 1



Due Wed.

