

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?

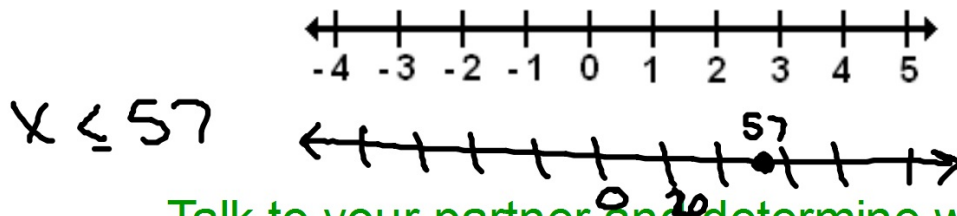
$x < 3$ value of x is smaller than 3 ∞ #

$n > 2$ value of n is anything bigger than 2 (2.0001)

$a \leq -1$ value of a could be -1 or anything less

$b \geq -2$ value of b could be -2 or bigger

Answers to inequalities are graphed on numberlines.

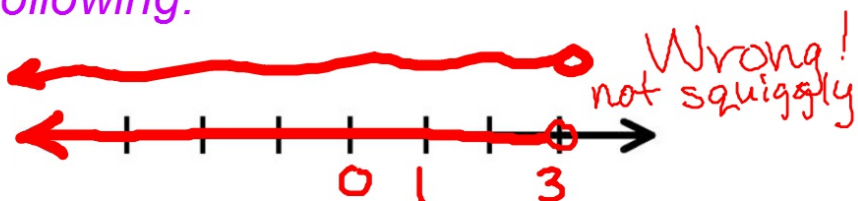


Talk to your partner and determine what **EVERY** graphed answer **must** have:

- *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*

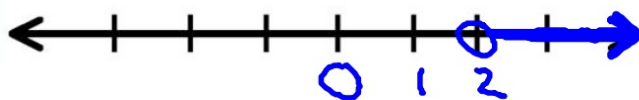
Graph each of the following:

$$x < 3$$



open circle since it cannot = 2

$$n > 2$$

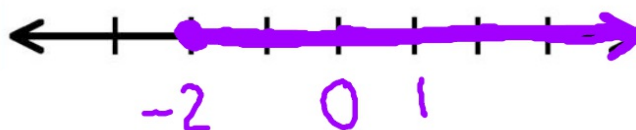


closed circle since it can = -1

$$a \leq -1$$



$$b \geq -2$$

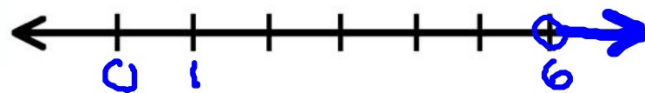


Graph each of the following:

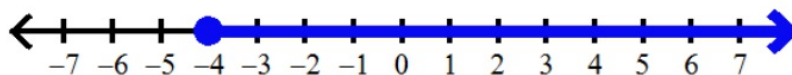
Rewrite it!

Wrong since the variable is on the wrong side
 ~~$5 \geq x$~~
 ~~$x \leq 5$~~

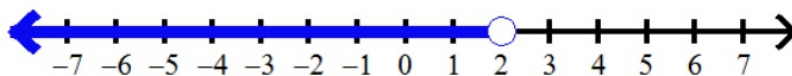
~~$b > 6$~~



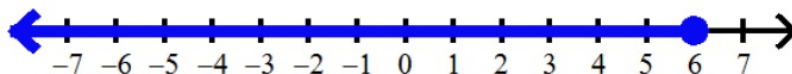
Write the inequality for each of these number lines:



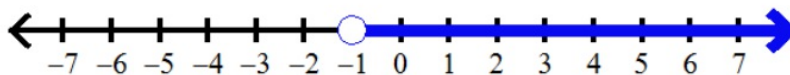
$$T \geq -4$$



$$v < 2$$



$$j \leq 6$$



$$d > -1$$



Homework

Gold WS 1



Due Wednesday

