

January 5, 2015

Starter

4th



Solve each for the given variable.



1. $r - 14 = -5$

$+14$

$r = -19$



2. $-3k = 21$

$\div -3$

$k = -7$

3. $-12 = 2x - 8$

$+8$

$-4 = 2x$

$\div 2$

$-2 = x$



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?

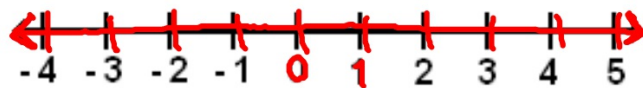
$x < 3$ the value of x is below 3, not 3!

$n > 2$ the answer is ^{more} bigger than 2, not 2
_{higher}

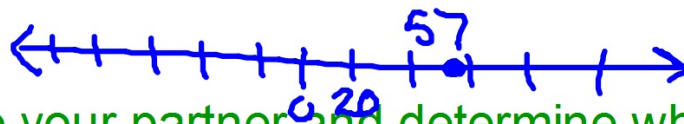
$a \leq -1$ the value of a is -1 or anything below

$b \geq -2$ the value of b is -2 or bigger

Answers to inequalities are graphed on numberlines.



$$x = 57$$



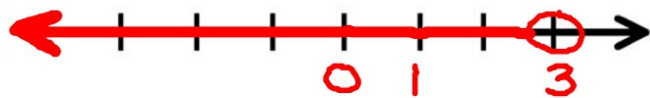
Talk to your partner and determine what **EVERY** graphed answer **must** have:

- *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:

Open circle since it cannot equal 3

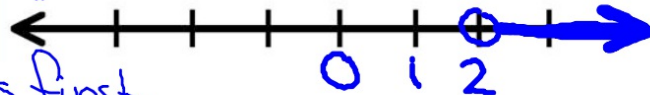
$$x < 3$$



The sign points in the direction it is shaded

$$n > 2$$

(F) the variable is first.

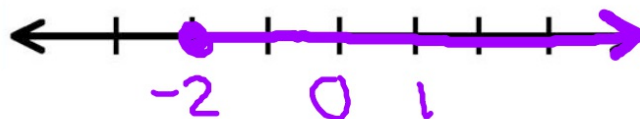


$$a \leq -1$$



$$b \geq -2$$

Closed circle because it has = in the symbol



Graph each of the following:

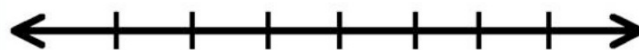
Flip it!

$$5 \geq x$$

$$x \leq 5$$

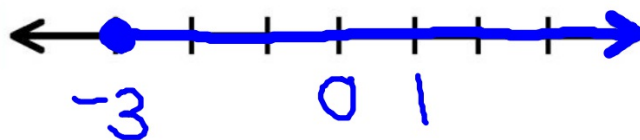


$$b > 6$$

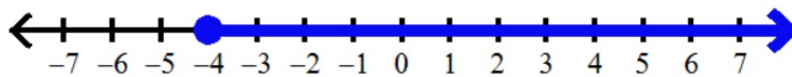


$$-3 \leq k$$

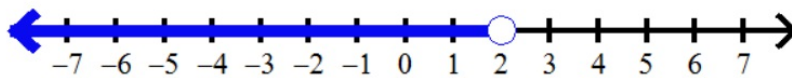
$$k \geq -3$$



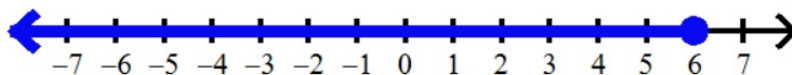
Write the inequality for each of these number lines:



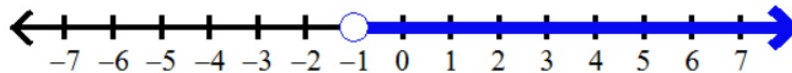
$$c \geq -4$$



$$j < 2$$



$$c \leq 6$$



$$s > -1$$



Homework

Blue WS 1



Due Wed

