

January 5, 2015

Starter

5th

6th



Solve each for the given variable.



1. $r + (+14) = -5$
 ~~-14~~ ~~-14~~

$r = -19$



2. $-3k = 21$
 ~~-3~~ ~~-3~~

$k = -7$

3. $-12 = 2x - 8$
 ~~$+8$~~ ~~$+8$~~

$-4 = \frac{2x}{2}$

$-2 = x$



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?

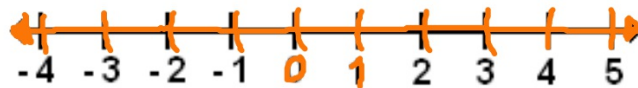
$x < 3$ x is all values lower than 3, $\infty \neq$

$n > 2$ n is all values above 2, $\infty \neq$

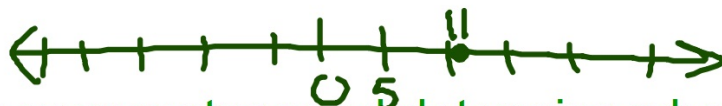
$a \leq -1$ a is -1 or any value lower

$b \geq -2$ b is -2 or anything higher

Answers to inequalities are graphed on numberlines.



$$x = 11$$



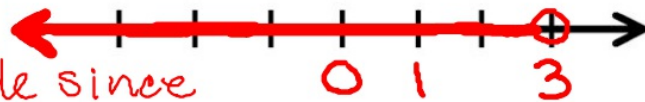
Talk to your partner and determine what **EVERY** graphed answer **must** have:

- 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:

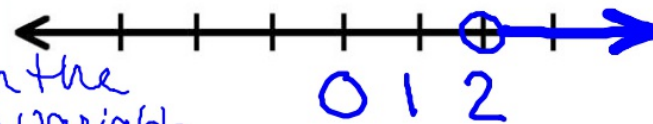
$$x < 3$$

Use an open circle since it cannot equal 3

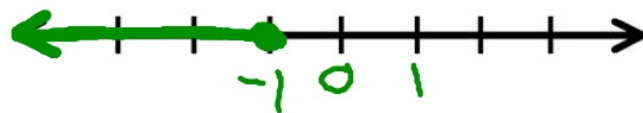


$$n > 2$$

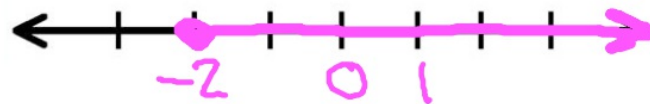
Shade in the direction the symbol points (IF) the variable is first.



$$a \leq -1$$



$$b \geq -2$$



Graph each of the following:

FLIP IT!

Flip
the
Symbol
too!

$$5 \geq x$$

$$x \leq 5$$

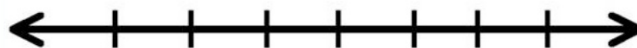


$$-3 \leq k$$

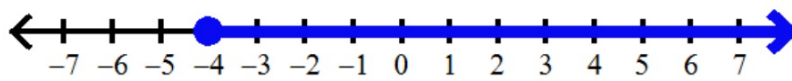
$$k \geq -3$$



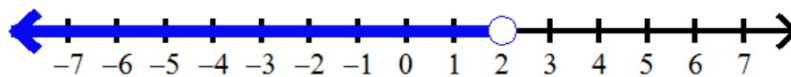
$$2 > n$$



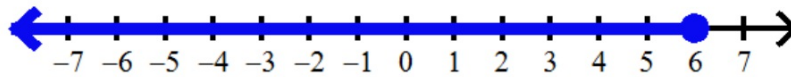
Write the inequality for each of these number lines:



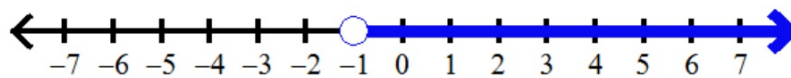
$$e \geq -4$$



$$r < 2$$



$$a \leq 6$$



$$m > -1$$



Homework

Blue WS!



Due Tuesday

