

January 5, 2015

Starter

5th
6th



Solve each for the given variable.



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

$-14 \quad -14$

$r = -19$



2. $-3k = 21$

$-3 \quad -3$

$k = -7$

3. $-12 = 2x - 8$

$+8 \quad +8$

$-4 = 2x$

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

$-2 = x$



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?

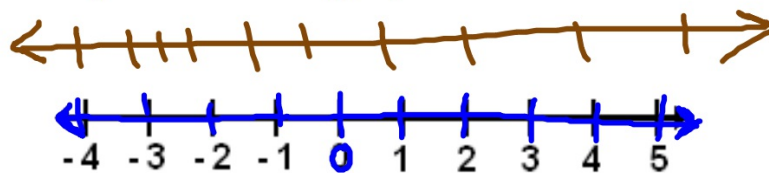
$x < 3$ all values of x are ^{lower} smaller than 3

$n > 2$ all values of n are ^{higher} ^{larger} bigger than 2

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

$b \geq -2$ all values of b are bigger than -2 or exactly -2

Answers to inequalities are graphed on numberlines.



$$x = 52$$



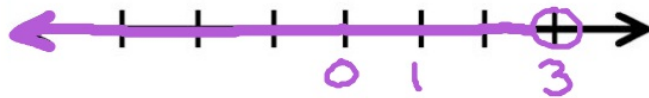
Talk to your partner and determine what **EVERY** graphed answer **must** have:

- 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:

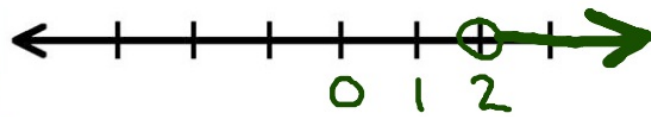
It cannot be 3, so use an open circle.

$$x < 3$$



$$n > 2$$

Shade in the direction of the symbol (\ominus) the variable is first.

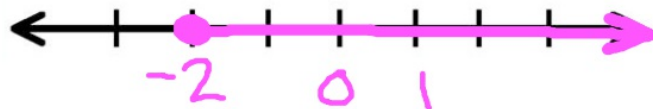


$$a \leq -1$$

Fill in the circle since it can be -1



$$b \geq -2$$



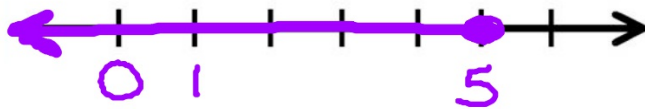
Graph each of the following:

Flip it!

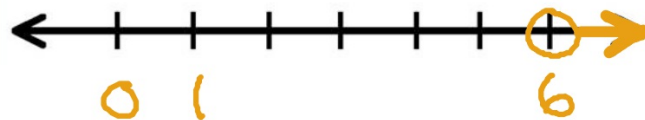
Flip the
symbol
too!

$$5 \geq x$$

$$x \leq 5$$

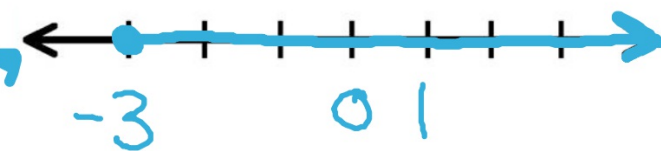


$$b > 6$$



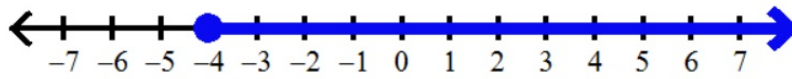
$$-3 \leq k$$

$$k \geq -3$$

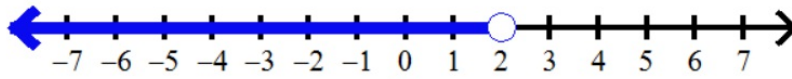


Write the inequality for each of these number lines:

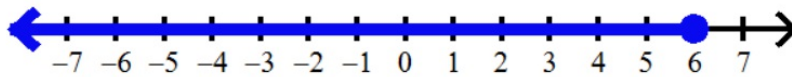
>
<
≥
≤



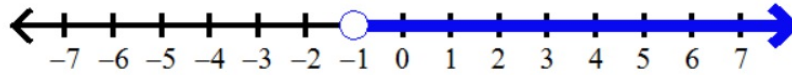
$$c \geq -4$$



$$m < 2$$



$$x \leq 6$$



$$a > -1$$



Homework

Blue WS 1



Due Tuesday

