
December 1, 2011

Get out your homework – BLUE review worksheet

12/1 - Graphing Inequalities

$<$ *less than*

$>$ *greater than*

\leq *less than or equal to*

\geq *greater than or equal to*

What do these mean?

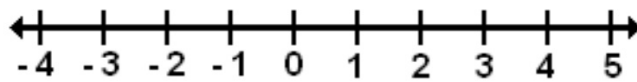
$x < 3$ x is any # below 3, smaller than 3

$n > 2$ n is any # above 2, bigger than 2

$a \leq -1$ a is any # below or = to -1

$b \geq -2$ b is any # bigger or = to -2

Answers to inequalities are graphed on numberlines.



smaller

bigger

EVERY graphed answer **must** have:

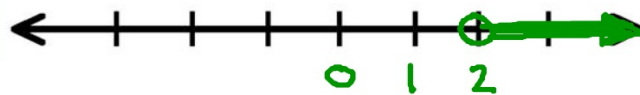
- arrows on both ends
- equally-spaced marks all along the line
- number labels - at least these 3:
 1. Zero
 2. the number you are counting by
 3. the number you are graphing

Graph each of the following: $<$ $>$ open circles
 \leq \geq closed circles

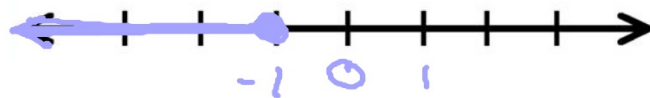
$$x < 3$$



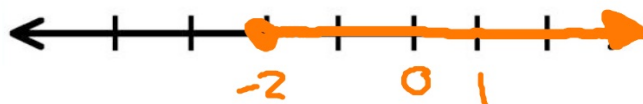
$$n > 2$$



$$a \leq -1$$

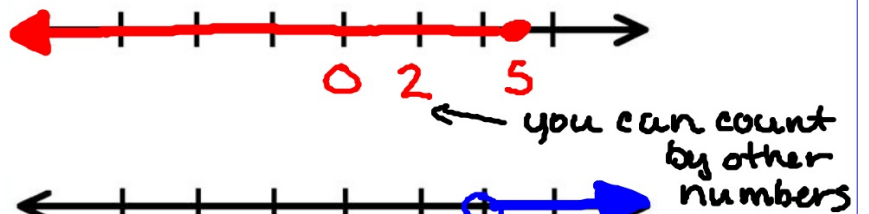


$$b \geq -2$$

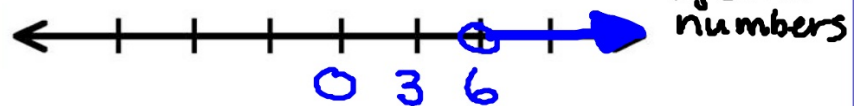


Graph each of the following: Variable MUST be 1st

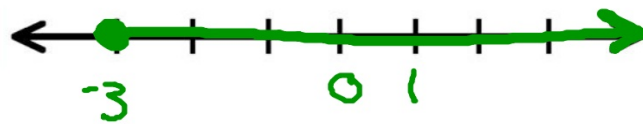
$$5 \geq x$$
$$x \leq 5$$



$$b > 6$$



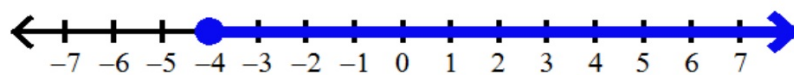
$$-3 \leq k$$
$$k \geq -3$$



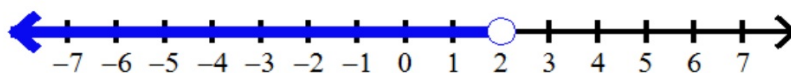
$$2 > n$$
$$n < 2$$



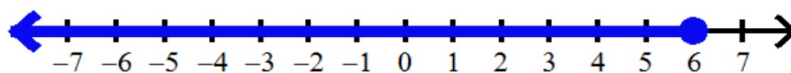
Write the inequality for each of these number lines:



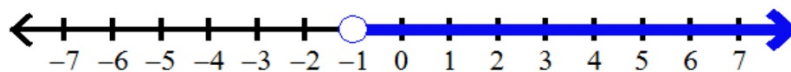
$$n \geq -4$$



$$n < 2$$



$$n \leq 6$$



$$n > -1$$

HOMework



Lilac Worksheet 12



Due Monday

