

Chapter 4-7 Graphing and Writing
Inequalities

Obj: To graph and write algebraic expressions.

Vocabulary: Inequality - a mathematical sentence that contains

$<, >, \leq, \geq$ or \equiv /

A solution to the inequality- is any value that makes the inequality true

$-3 < 2$ -3 is less than or equal to 2;

$0 < 2$ 0 is less than or equal to 2;

$2 < 2$ 2 is less than or equal to 2;

$4.5 < 2$ 4.5 is less than or equal to 2;

$$M \geq -3 \text{ Plug in!}$$

Given VALUES OF -8, -2, 1.4

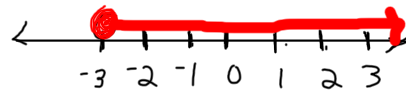
$$-8 \geq -3 \text{ F NOT}$$

$$-2 \geq -3 \text{ T SOLUTION}$$

$$1.4 \geq -3 \text{ T SOLUTION}$$

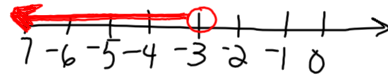
Graphing Inequalities
 (means put it on a Number Line).
 If u see equal sign

$n \geq -3$ (Use a closed circle bc it includes the number)
 -3

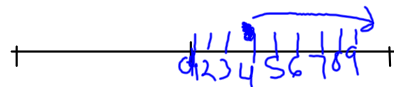


it extends to infinity because its every value equal to or greater than -3.

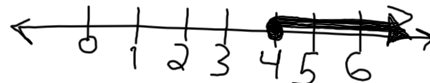
$w < -3$ open circle bc no equal sign



Every value less than -3 is true

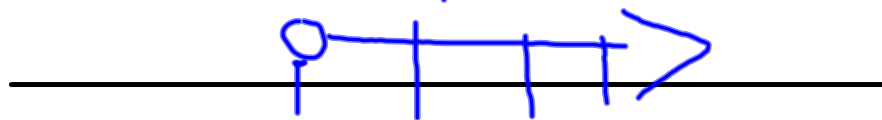


$x \geq 4$



$$13 < y$$

13 14 15 16



9 10 11 12 13