

True or False???

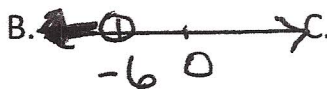
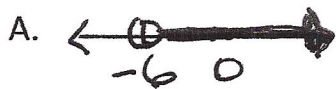
1.  $3 < 9$  \_\_\_\_\_

2.  $-3 < -9$  \_\_\_\_\_

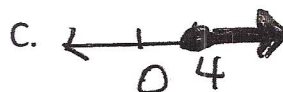
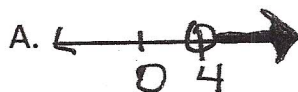
3.  $4 \geq 4$  \_\_\_\_\_

Which is the correct graph?

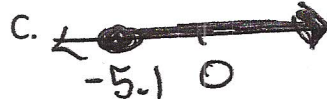
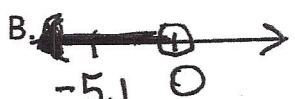
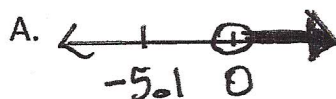
1.  $x > -6$



2.  $m \leq 4$



3.  $-5.1 \leq m$



4.  $2m < 14$



Do you recall??

One reverses the order of the inequality,

if one \_\_\_\_\_ or \_\_\_\_\_ both sides by a \_\_\_\_\_ number.

Note the following examples.

$$-2x > 10$$

$$** \frac{-2x}{-2} < \frac{10}{-2}$$

$$x < -5$$

Note the direction changes

$$\frac{x}{-3} \geq 10$$

$$** -3 \cdot \frac{x}{-3} \leq -3 \cdot 10$$

$$x \leq -30$$

Note the direction changes

$$x + 3 \geq 10$$

$$** x + 3 - 3 \leq 10 - 3$$

$$x \leq 7$$

Note the direction does not change