

# Solving Inequalities

Only rule....

If you \_\_\_\_\_ or \_\_\_\_\_  
by a \_\_\_\_\_ number, then you \_\_\_\_\_ the inequality.

$>$  or  $\geq$  shade to the \_\_\_\_\_

$<$  or  $\leq$  shade to the \_\_\_\_\_

$>$  or  $<$  is a \_\_\_\_\_ circle

$\geq$  or  $\leq$  is a \_\_\_\_\_ circle

**Hint:** When solving and graphing, keep the variable on the left so that the inequality tells you the direction of the arrow.

No Solutions: are \_\_\_\_\_ inequalities

Infinite Solutions: are \_\_\_\_\_ inequalities

**Graph each inequality on a number line.**

$$x > -2$$

$$x \leq 3$$

$$4 > x$$