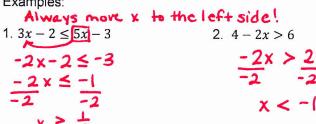
3.1 - Solving Simple Linear Inequalities

The method of solving linear inequalities is similar to the one used for solving linear equations. Most inequalities have many solutions, which are graphed on a number line. **▼Remember when multiplying or** dividing by a negative number, you must reverse the inequality *

Examples:







* With x on the left, shade the direction of the arrow!

3.
$$8(2x-1) > 11x-17$$
 $|6x-8>||x-17|$
 $|5x-8>-17|$
 $|5x>-9|$
 $|x>-9|$

4.
$$5(x-2) \le 7$$

 $5x - 10 \le 7$
 $5x \le 17$
 $x \le \frac{17}{5}$





* Use a closed circle for < or >.