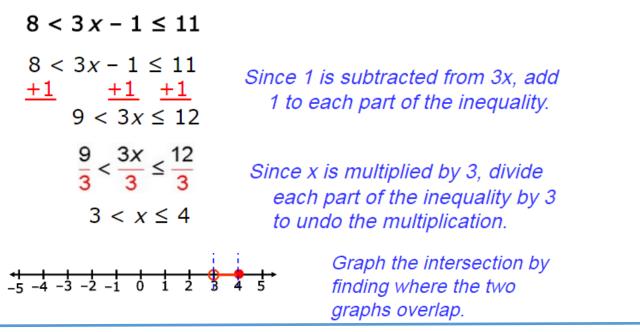
Compound Inequalities Cue Card

"And" Compound Inequalities

Compound inequalities using AND require you to find solutions so that two inequalities will be satisfied at the same time.

Ex: Follow steps for solving inequalities except you need to undo to all parts of the inequality.



"Or" Compound Inequalities

Compound inequalities using OR require you to find solutions that satisfy either inequality.

Solve 4x > 12 OR $3x \le -15$ and graph the solutions.

The two inequalities are: 4x > 12 OR $3x \le -15$.

Solve
$$4x > 12$$
. Solve $3x \le -15$.

 $\frac{4x}{4} > \frac{12}{4}$ Divide both sides by 4. $\frac{3x}{3} \le \frac{-15}{3}$ Divide both sides by 3.x > 3. $x \le -5$ Graph x > 3 OR $x \le -5.$ $4x \le -5$ Use both regions for compound inequalities with

OR.