Solving Compound "AND" Inequalities

Clear Learning Target

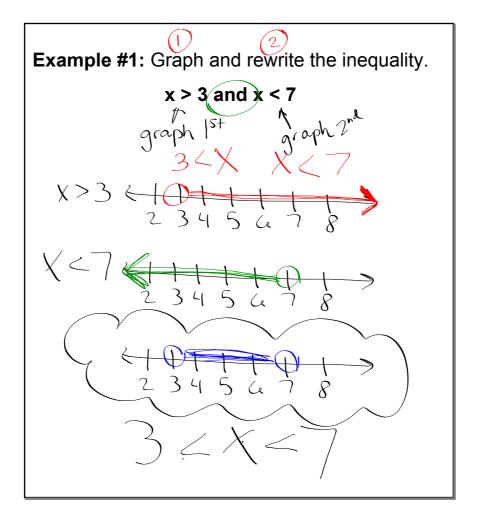
You will be able to solve and graph compound inequalities involving an "and" relationship

Words Worth Knowing!

Compound inequality -

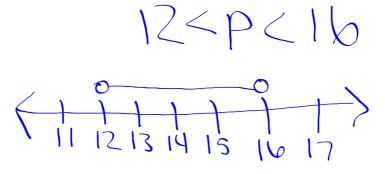
two inequalities which are considered together

intersection - where the graphs of 2 inequalities overlap

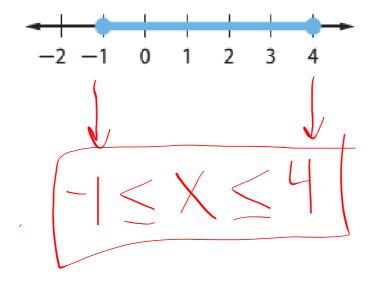


You Try! Graph and rewrite the inequality.

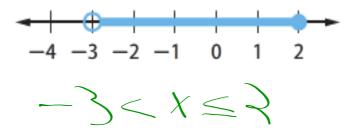
12 < p and p < 16



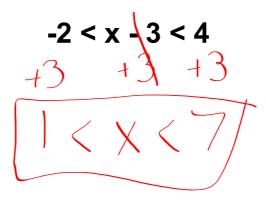
Example #2: Write a compound inequality for the given graph.



You Try! Write a compound inequality for the given graph.



Example #3: Solve the inequality.



Example #4: Solve the inequality. y-3 > -11 and y-3 < -8A solve each inequality

Separately, then combinel y+3 > -1 y+3 < -8 y+3 + 3 y > -6 y < -5