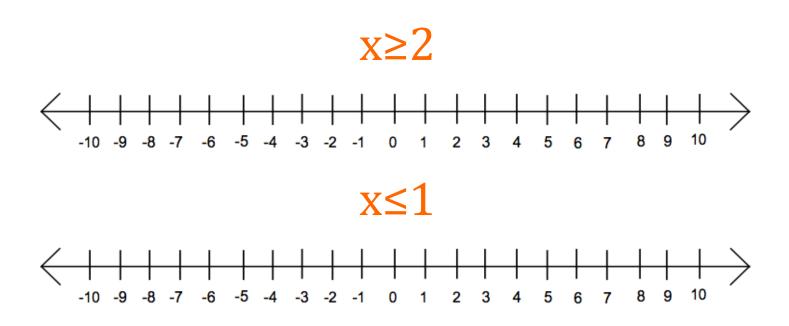
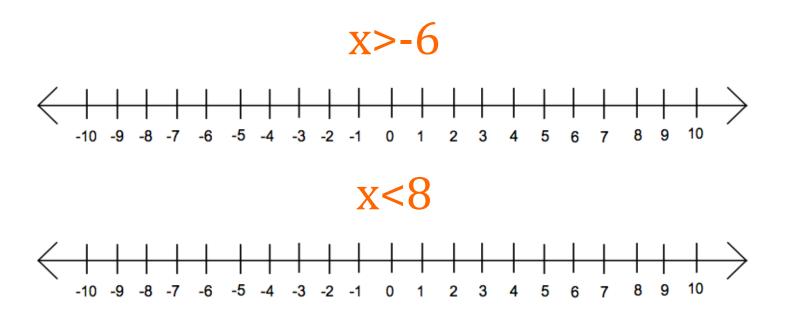


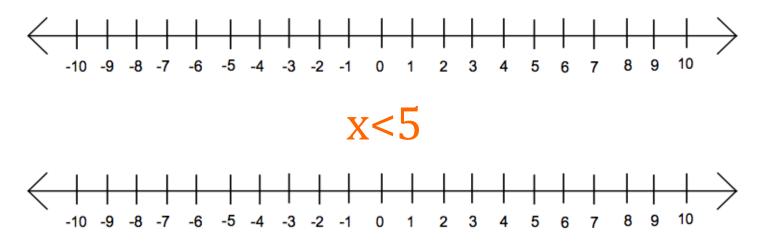
Grahing Inequalities



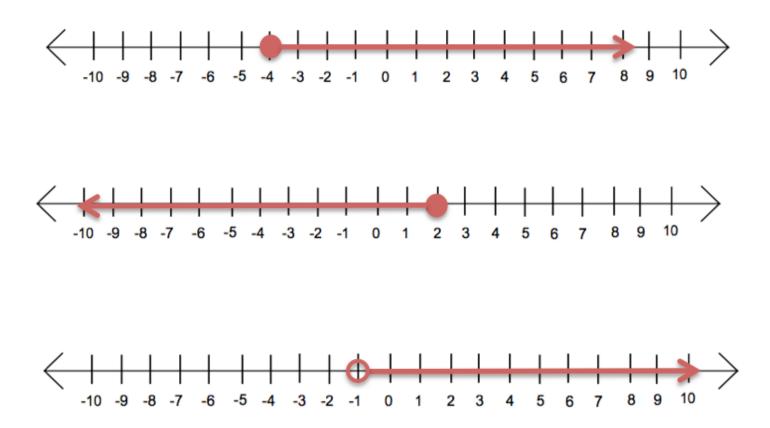
How do we show the difference between > and \ge when graphing?



x>-4



Write an inequality for the graph.



4<10

If we add 6 to each side, will the statement remain true?

4<10

If we subtract 3 from each side will the statement remain true?

4<10

If we multiply each side by 4 will the statement remain true?

4<10

If we divide each side by 2 will the statement remain true?

4<10

If we multiply each side by -5 will the statement remain true?

4<10

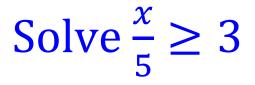
If we divide each side by -2 will the statement remain true?

What must you do to the inequality when multiplying and dividing by a negative to keep the statement true?

Solve 3x > 12

Solve x + 4 < 9

Solve $x - 3 \ge -5$



Solve -2x > 22

Solve
$$\frac{x}{-4} \le 10$$

Solve -2(3x - 4) > 22