

Special Problems Involving Greater Than

If you have:

$$|stuff| > -a$$

OR If you have:

$$|stuff| > 0$$

There is **One Interval** and it is the whole number line because the absolute value of something will always be positive and bigger than a negative

Another way to recognize this special solution is if you get a graph of $x < n$ or $x > m$ that points **IN** instead of out.

Other Special Problems Involving Greater Than

If you have:

$$|x| > 0$$

You have **Two Intervals**. $(-\infty, 0) \cup (0, \infty)$

If you have:

$$|x| \geq 0$$

You have **One Interval**. $(-\infty, \infty)$

Normal Problems Involving Greater Than

If you have:

$$|stuff| > a$$

Create a compound inequality joined with the word 'or'.

$$stuff > a \text{ or } stuff < -a$$

Solve the two inequalities.

$$x > n \text{ or } x < m$$

Graph the solution on a number line. You should have two arrows pointing away from each other. (**Two Intervals**)