Inequalities

<

smaller than

less than

fewer than

?/3 1<3 3>1 >

bigger than

greater than

more than

< =

less than or equal to

no(t) more than

at most

maximum

5 < 5,6,7

56725

15²1 = 14

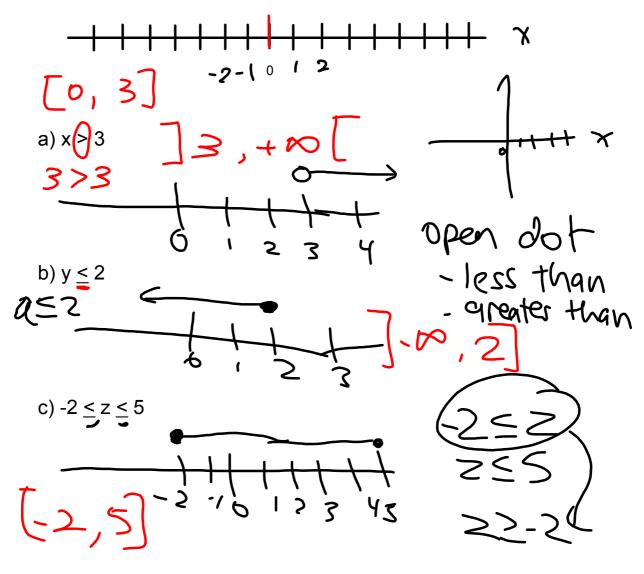
greater than or equal to

no(t) less than

at least

minimum

Two other ways to show: Number Lines and Intervals



Remember: with brackets, opening away means **not** including.

Or infini+4

Transforming Inequalities

Works the same way as with an equals sign except that:

when multiplying or dividing both sides by the same negative number,

the inequality is "flipped"

nequality is "flipped"
$$-2x=4 \qquad 2x=-4$$
e.g. -2x < 4 \qquad x=-2 \qquad e.g. 2x < -4
$$-2x < 4 \qquad x=-2 \qquad x < -4$$

$$-2x < 4 \qquad x=-2 \qquad x < -4$$

$$-2x < 4 \qquad x=-2 \qquad x < -4$$

$$-3y < -3 -2 \qquad -3y < -5$$

$$-3y < -3 -2 \qquad -3y < -5$$

$$-3y < -5 -3 \qquad y > 5$$

$$y > 5$$