

Inequality Symbols Notes

Important Information

< less than

≤ less than or equal to

> greater than

≥ greater than or equal to

□ open circle- does NOT include the number (used on number lines for < and/or >)

● closed circle- does include the number (used on number lines for ≤ and/or ≥)

boundary point- the starting and/or stopping point of an inequality.

Example:

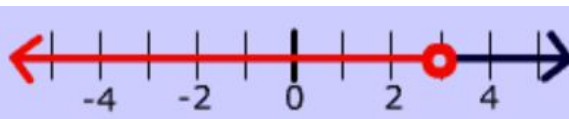
Inequalities can have multiple steps. Use the inequality sign like an equal sign and solve the inequality.

$$\begin{aligned} 45 + 2b &> 61 \\ \underline{-45} \quad \quad \underline{-45} & \\ 2b &> 16 \\ \frac{2b}{2} &> \frac{16}{2} \\ b &> 8 \end{aligned}$$

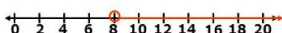


Things to Remember

$$x \geq -2$$



$$x < 3$$



Another Example:

Write your own examples.

One problem should be a written inequality and then graph it on a number line.

The second example should be a number line with an inequality graphed on it. Then write the inequality of the graphed number line.