

**Learning Target:** I can solve one-step inequalities and graph the solution on a number line.

**INEQUALITIES**

A mathematical sentence that contains  $<$ ,  $>$ ,  $\leq$ , or  $\geq$  is called an **inequality**.

$<$	$>$	$\leq$	$\geq$
<ul style="list-style-type: none"> <li>• is less than</li> <li>• is fewer than</li> </ul>	<ul style="list-style-type: none"> <li>• is greater than</li> <li>• is more than</li> <li>• exceeds</li> </ul>	<ul style="list-style-type: none"> <li>• is less than <u>OR</u> equal to</li> <li>• is no more than</li> <li>• is at most</li> </ul>	<ul style="list-style-type: none"> <li>• is greater than <u>OR</u> equal to</li> <li>• is no less than</li> <li>• is at least</li> </ul>

**Writing Inequalities**

1) Less than 50 students attended the game.

Students @ game  $< 50$

2) Going to see the movie cost at least as much as his allowance of \$15.

Cost of movie  $\geq 15$

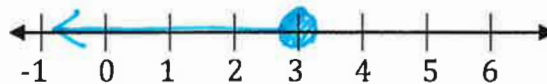
**Graphing Inequalities**

1)  $x > 3$



\* An **open circle** means that the number 3 is **NOT** included in the solution set.

2)  $x \leq 3$



\* A **closed circle** means that the number 3 **IS** included in the solution set.

