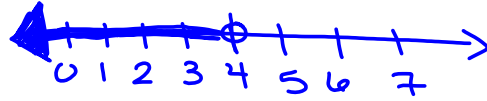


# Inequalities

<

open circle + shade left  
meaning:

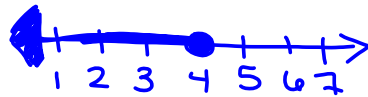
ex  $x < 4$



≤

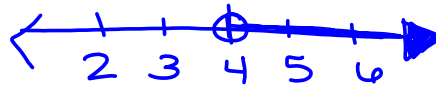
closed circle + shade left

$x \leq 4$



>

open circle + shade right  
 $x > 4$



≥

closed circle + shade right

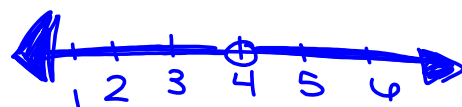


$x \geq 4$

≠

open circle + shade both way

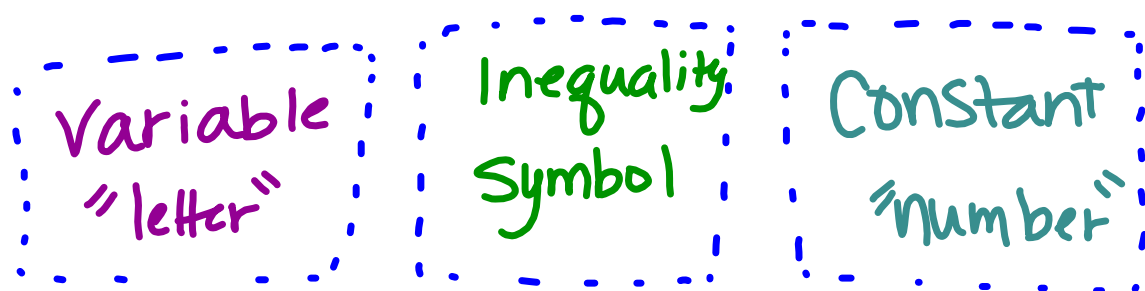
ex  $x \neq 4$



$x = 4$

A number line with arrows at both ends, labeled from 3 to 5. A closed circle is drawn at the number 4. Only the number 4 is shaded with a thick blue line, representing the equation  $x = 4$ .

	<u>left</u>	<u>Right</u>
<u>open</u>	$<$	$>$
<u>closed</u>	$\leq$	$\geq$



\* If you have to "flip flop" the sides of the inequality then you must flip the symbol

Ex       $11 > b$   
Rewrite    $b < 11$