

Graphing Inequalities

Word Bank	less than	less than or equal to	greater than	greater then or equal to
Symbols				
$>$			$\geq$	
$<$			$\leq$	

Word Bank	Open	Open	Closed	Closed	Left	Left	Right	Right
	$\circ$	$\circ$	$\bullet$	$\bullet$	$\leftarrow$	$\leftarrow$	$\rightarrow$	$\rightarrow$
Symbol	Open or Closed Circle		Shading Direction		Interval Notation			
$>$					(x, ∞)			
$<$					$(-\infty, x)$			
$\geq$					$[x, \infty)$			
$\leq$					$(-\infty, x]$			

Examples:

Tool Kit	$\circ$	$\circ$	$\bullet$	$\bullet$	$\leftarrow$	$\leftarrow$	$\rightarrow$	$\rightarrow$	∞	$-\infty$
Inequality	Number Line								Interval Notation	
$x > 3$									____, ____	
$y < -5$									____, ____	
$w \geq -2$									____, ____	
$z \leq 1.5$									____, ____	