

Words	Symbols	Set Builder	Interval	Graph
x less than 3	$x < 3$	$\{x x < 3\}$	$(-\infty, 3)$	
x greater than -3	Dfn: $x > -3$ Jay: $-3 < x$	$\{x -3 < x\}$	$(-3, \infty)$	
x less than or equal to 1	$x \leq 1$	$\{x x \leq 1\}$	$(-\infty, 1]$	
x greater than or equal to -2	Dfn: $x \geq -2$ Jay: $-2 \leq x$	$\{x -2 \leq x\}$	$[-2, \infty)$	
x is between 3 and 2 (exclusive)	$-3 < x < 2$	$\{x -3 < x < 2\}$	$(-3, 2)$	
x is between 0 and 4 (inclusive)	$-0 \leq x \leq 4$	$\{x 0 \leq x \leq 4\}$	$[0, 4]$	
x is less than -2 or greater than 4	$x < -2$ or $4 < x$	$\{x x < -2$ or $4 < x\}$	$(-\infty, -2)$ $\cup (4, \infty)$	
	*Greater than (>) can always be written as less than (<)	*Same as Symbols inside some funny brackets	*Only notation to use ∞ *Infinity always gets ()	

Summary

Groups of Symbols		Number of Known Values	
$<, >, (,)$, exclusive	End number not included	1 Number	
$\leq, \geq, \bullet, []$, inclusive	End numbers included	2 Numbers	