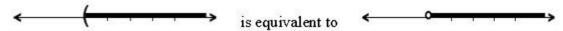
Using Set Builder and Interval Notation

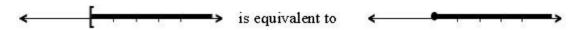
Symbols used in Set Builder and Interval Notation

To Show	Set Builder	Interval
Less than	<)
Greater than	>	(
Less than or Equal to	≤	1
Greater than or Equal to	≥	Ĺ
Union	or	Ü
Intersection	and	0

To exclude a number on a number line use a parenthesis or an open circle.



To include a number on a number line use a bracket or a closed circle.

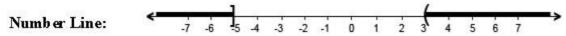


Example 1: Show all real numbers between -3 and +2, with -3 excluded and 2 included.

Set Builder Notation: $\{x \mid -3 \le x \le 2\}$

Interval Notation: (-3, 2]

Example 2: Show all numbers less than or equal to -5, or greater than +3.



Set Builder Notation: $\{x \mid x \le -5 \text{ or } x \ge 3\}$

Interval Notation: $(-\infty, -5] \cup (3, \infty)$

NOTE: Use parenthesis with -co and +co