

Interval Notation Supplemental

Name: _____

Per.: _____

Example 1:

$(-\infty, 3]$

“all values less than or equal to 3”

Example 3:

$(243, 365)$

“all values between 243 and 365, not including 243 and 365”

Example 2:

$[4, 126]$

“all values between 4 and 126, including 4 and 126”

Example 4:

$(-\infty, 7) \cup (50, \infty)$

“all numbers except those between 7 and 50”

Statement	Number Line	Interval Notation
all real numbers		
all real numbers less than 2		
all real numbers less than or equal to 2		
all real numbers except for 2		
all real numbers except for 2 and 5		
all real numbers greater than 11 but less than or equal to 22		
1		

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Fill out the rest of the chart:

	Statement	Number Line	Interval Notation
1.			$(2, \infty)$
2.			$(0, 5)$
3.	all real numbers except for 10		
4.			$(1, 12) \cup [23, \infty)$
5.	all real numbers greater than or equal to 7 but less than 12		
6.			$[5]$
7.	all real numbers greater than 2 but less than 18		
8.			$(2, 15]$

9. Why must a parenthesis always be used when talking about infinity? Explain.