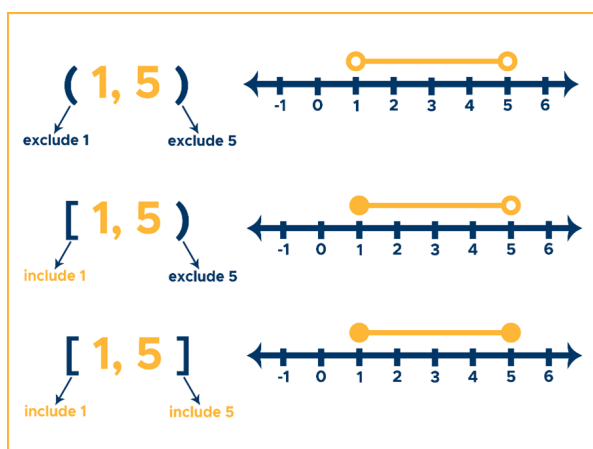


Math 115E Activity 1

Chapter 1 Section 2
Representing Collections of Numbers

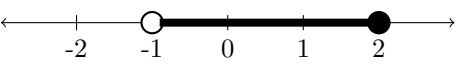
How to use Interval Notation

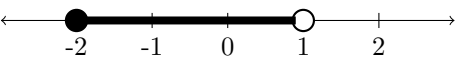


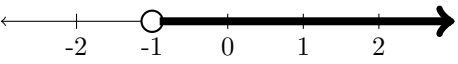
Interval Notation	
(a, b)	$a < x < b$
$[a, b]$	$a \leq x \leq b$
$(a, b]$	$a < x \leq b$
$[a, b)$	$a \leq x < b$
$(-\infty, c)$	$x < c$
$(-\infty, c]$	$x \leq c$
(c, ∞)	$x > c$
$[c, \infty)$	$x \geq c$

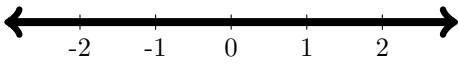
Practice Problems

In this section you will fill in the blank with a parenthesis or a bracket given the bound on the number line

1.  $\left| \begin{array}{c} \square \\ \square \end{array} -1, 2 \begin{array}{c} \square \\ \square \end{array} \right| -1 \begin{array}{c} \square \\ \square \end{array} x \begin{array}{c} \square \\ \square \end{array} 2$

2.  $\left| \begin{array}{c} \square \\ \square \end{array} -2, 1 \begin{array}{c} \square \\ \square \end{array} \right| -2 \begin{array}{c} \square \\ \square \end{array} x \begin{array}{c} \square \\ \square \end{array} 1$

3.  $\left| \begin{array}{c} \square \\ \square \end{array} -1, \infty \begin{array}{c} \square \\ \square \end{array} \right| -1 \begin{array}{c} \square \\ \square \end{array} x \begin{array}{c} \square \\ \square \end{array} \infty$

4.  $\left| \begin{array}{c} \square \\ \square \end{array} -\infty, \infty \begin{array}{c} \square \\ \square \end{array} \right| -\infty \begin{array}{c} \square \\ \square \end{array} x \begin{array}{c} \square \\ \square \end{array} \infty$

