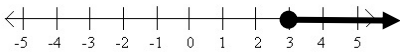
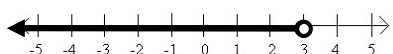


Inequality vs. Interval Notation

KEY

Each row below is an equivalent set:

Inequality Notation	Interval Notation	Graph
$x \geq 3$	$[3, \infty)$	
$x < 3$	$(-\infty, 3)$	
$x \neq 3$	$(-\infty, 3) \cup (3, \infty)$	

1. Rewrite each inequality set using interval notation.

a) $x \leq 0$

$(-\infty, 0]$

b) $0 < x < 7$

$(0, 7)$

c) $x \neq 7$

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

2. Rewrite each interval notation set using inequalities.

a) $(3, 10]$

$3 < x \leq 10$

b) $[8, \infty)$

$x \geq 8$

c) $(-\infty, 0) \cup (0, 1) \cup (1, \infty)$

$x \neq 0, 1$

3. Use the graph to describe the set of all x values where $f(x) > 0$.

Write in interval notation and using inequalities.

$(1, 3)$

$1 < x < 3$

