

Name:

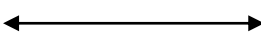
Period:

Date:

**Practice Worksheet:**  
**Inequalities & Interval Notation**

1]  $x \leq 5$

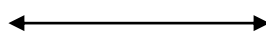
Interval notation:

sketch: 

bounded or unbounded?

2]  $x < 0$

Interval notation:

sketch: 

bounded or unbounded?

3]  $[4, \infty)$

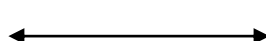
Inequality notation:

sketch: 

bounded or unbounded?

4]  $-2 < x < 2$

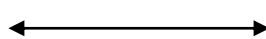
Interval notation:

sketch: 

bounded or unbounded?

5]  $-1 \leq x \leq 0$

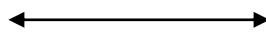
Interval notation:

sketch: 

bounded or unbounded?

6]  $[-2, 5)$

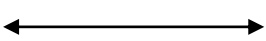
Inequality notation:

sketch: 

bounded or unbounded?

7]  $x \geq -2$

Interval notation:

sketch: 

bounded or unbounded?

8]  $0 \leq x \leq 5$

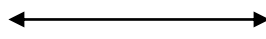
Interval notation:

sketch: 

bounded or unbounded?

9]  $(-1, 2]$

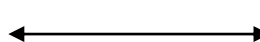
Inequality notation:

sketch: 

bounded or unbounded?

10]  $x$  is non-negative

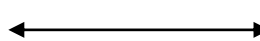
Inequality notation: Interval notation:

sketch: 

bounded or unbounded?

11]  $x$  is greater than  $-2$  and at most  $4$

Inequality notation: Interval notation:

sketch: 

bounded or unbounded?

12] x is at least 10 and at most 22

Inequality notation: Interval notation: sketch:  $\longleftrightarrow$  bounded or unbounded?

13] x is more than 65

Inequality notation: Interval notation: sketch:  $\longleftrightarrow$  bounded or unbounded?

14] y is no more than 25

Inequality notation: Interval notation: sketch:  $\longleftrightarrow$  bounded or unbounded?

15] y is at least -6 and less than 0

Inequality notation: Interval notation: sketch:  $\longleftrightarrow$  bounded or unbounded?

16] K is less than 5 but no less than -3

Inequality notation: Interval notation: sketch:  $\longleftrightarrow$  bounded or unbounded?

Place parenthesis or brackets in the appropriate locations to create an accurate interval notation in each real-world situation below.

17] 32, 212 Liquid state of water; Water freezes at 32°F and boils at 212°F

18] 21, ∞ Legal drinking age in U.S.

19] 18, ∞ Voting age in U.S.

20] 45, 65 Speed limit on I-81

21] -∞, 0 The national debt

22] 16, 18 Junior license age restriction in PA

23] -∞, 32 Solid state of water; Water freezes at 32°F and boils at 212°F

24] 0, 100 Percent of real juice in a fruit punch drink

25] 0, ∞ Number of words in any human language