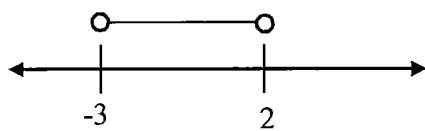


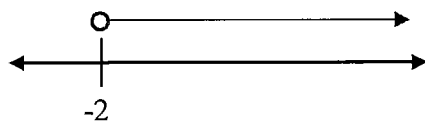
Interval Notation / Absolute Value Worksheet Answers

Describe the following interval in i. set notation and ii. Interval notation..

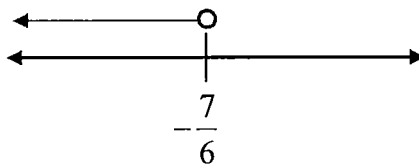
a.



b.

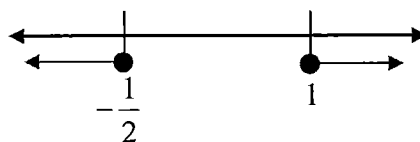


c.

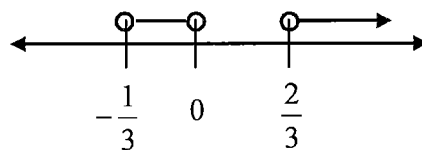


d.

...

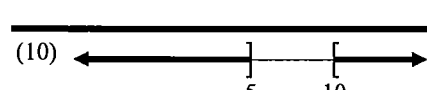
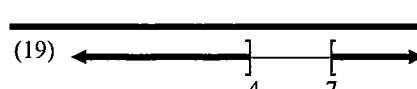
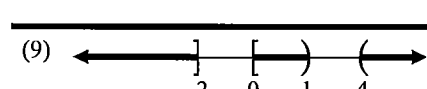
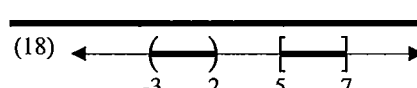
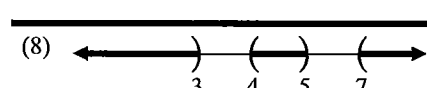
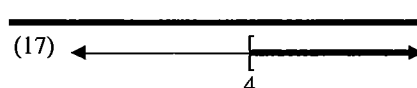
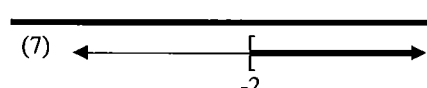
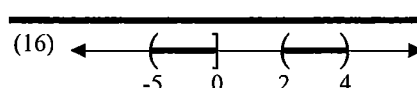
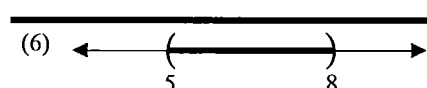
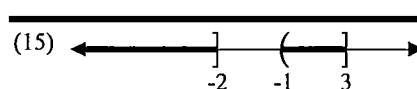
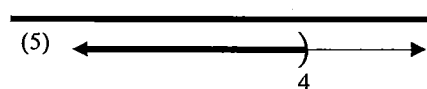
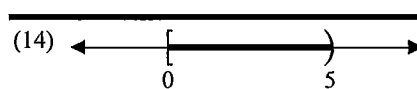
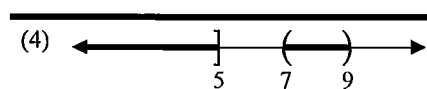
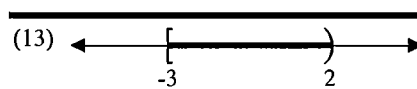
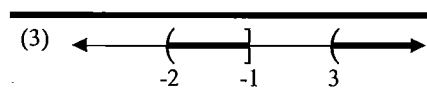
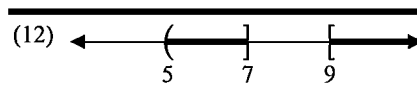
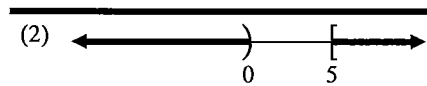
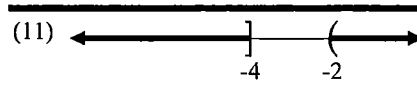
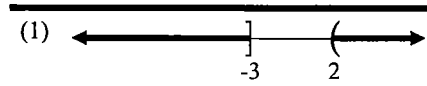


e. ...



Worksheet #10—Interval Notation

The following are the Number Line Solutions for the Interval Notation and Inequality Forms on the other page. Practice going from each form to any other form. In particular, practice being able to interpret the Number Line Solution back into Inequality Form and Interval Notation.



- (1) (a) $(-\infty, -3] \cup (2, \infty)$ | (b) $x \leq -3$ OR $x > 2$
- (2) (a) $(-\infty, 0) \cup [5, \infty)$ | (b) $x < 0$ OR $x \geq 5$
- (3) (a) $(-2, -1] \cup (3, \infty)$ | (b) $-2 < x \leq -1$ OR $x > 3$
- (4) (a) $(-\infty, 5] \cup (7, 9)$ | (b) $x \leq 5$ OR $7 < x < 9$
- (5) (a) $(-\infty, 4)$ | (b) $x < 4$
- (6) (a) $(5, 8)$ | (b) $5 < x < 8$
- (7) (a) $[-2, \infty)$ | (b) $x \geq -2$
- (8) (a) $(-\infty, 3) \cup (4, 5) \cup (7, \infty)$ | (b) $x < 3$ OR $4 < x < 5$ OR $x > 7$
- (9) (a) $(-\infty, -2] \cup [0, 1) \cup (4, \infty)$ | (b) $x \leq -2$ OR $0 \leq x < 1$ OR $x > 4$
- (10) (a) $(-\infty, 5] \cup [10, \infty)$ | (b) $x \leq 5$ OR $x \geq 10$
- (11) (a) $(-\infty, -4] \cup (-2, \infty)$ | (b) $x \leq -4$ OR $x > -2$
- (12) (a) $(5, 7] \cup [9, \infty)$ | (b) $5 < x \leq 7$ OR $x \geq 9$
- (13) (a) $[-3, 2)$ | (b) $-3 \leq x < 2$
- (14) (a) $[0, 5)$ | (b) $0 \leq x < 5$
- (15) (a) $(-\infty, -2] \cup (-1, 3]$ | (b) $x \leq -2$ OR $-1 < x \leq 3$
- (16) (a) $(-5, 0] \cup (2, 4)$ | (b) $-5 < x \leq 0$ OR $2 < x < 4$
- (17) (a) $[4, \infty)$ | (b) $x \geq 4$
- (18) (a) $(-3, 2) \cup [5, 7]$ | (b) $-3 < x < 2$ OR $5 \leq x \leq 7$
- (19) (a) $(-\infty, -4] \cup [7, \infty)$ | (b) $x \leq -4$ OR $x \geq 7$
- (20) (a) $(-\infty, -1] \cup [0, 3]$ | (b) $x \leq -1$ OR $0 \leq x \leq 3$