

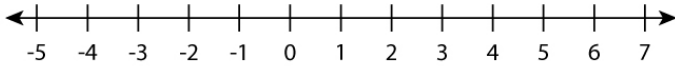
Name : _____

Score : _____ Date : _____

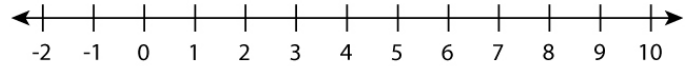
Compound Inequalities

Solve each compound inequality and graph its solution.

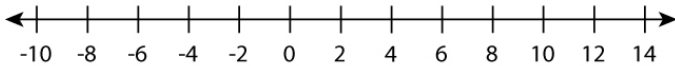
① $-7 < 2x - 7 < -3$



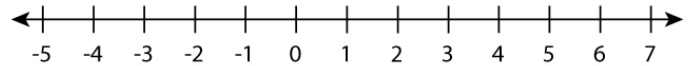
② $x < 9$ and $x \geq 3$



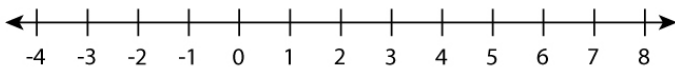
③ $10 > x > -8$



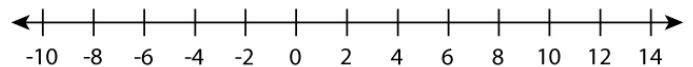
④ $-1 - x \leq 0$ and $-2x - 1 \geq -3$



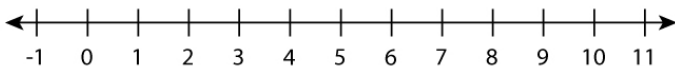
⑤ $3x - 4 \leq 11$ and $2x + 5 > 5$



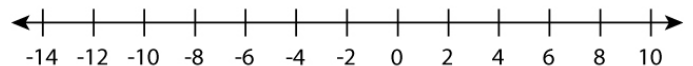
⑥ $-50 < 7k + 6 < -8$



⑦ $2x \leq 8$ or $3x \geq 15$



⑧ $-1 < 9 + n < 17$



Name : _____

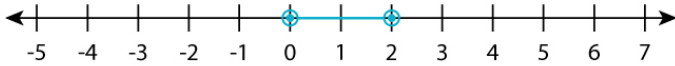
Score : _____ Date : _____

Compound Inequalities

Answers

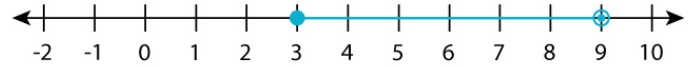
① $-7 < 2x - 7 < -3$

$$0 < x < 2$$



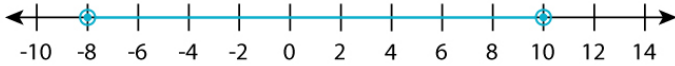
② $x < 9$ and $x \geq 3$

$$3 \leq x < 9$$



③ $10 > x > -8$

$$-8 < x < 10$$



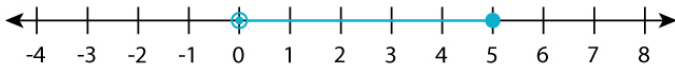
④ $-1 - x \leq 0$ and $-2x - 1 \geq -3$

$$-1 \leq x \leq 1$$



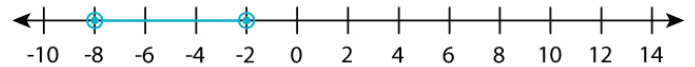
⑤ $3x - 4 \leq 11$ and $2x + 5 > 5$

$$0 < x \leq 5$$



⑥ $-50 < 7k + 6 < -8$

$$-8 < k < -2$$



⑦ $2x \leq 8$ or $3x \geq 15$

$$x \leq 4 \text{ or } x \geq 5$$



⑧ $-1 < 9 + n < 17$

$$-10 < n < 8$$

