

Name : _____

Score : _____

Solving Compound Inequalities

Multi-step: S1

Solve each inequality.

1) $x + \frac{2x}{3} \leq -5$ and $6(9 + 3x) < 18$

2) $12 > \frac{4x - 8}{5} > -16$

3) $\frac{-x + 23}{7} > 4$ or $\frac{-x - 5}{2}$

and $-38 > 19(6x - 8)$

5) $-13 \leq \frac{9x + 2}{4} < 5$

or $\frac{5x - 7}{6} \geq 3$

7) $-45 \geq 15(7x + 18)$ or $-10 \geq \frac{x}{9} + x$

8) $14 > \frac{-x + 35}{3}$ and $\frac{-x - 46}{11} \leq -5$

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Name : _____

Answer key

Score : _____

Solving Compound Inequalities

Multi-step: S1

Solve each inequality.

1) $x + \frac{2x}{3} \leq -5$ and $6(9 + 3x) < 18$

$x \leq -3$

2) $12 > \frac{4x - 8}{5} > -16$

$-18 < x < 17$

3) $\frac{-x + 23}{7} > 4$ or $\frac{-x - 5}{2}$

$x < -5$ or

and $-38 > 19(6x - 8)$

$18 < x < 1$

5) $-13 \leq \frac{9x + 2}{4} < 5$

$-6 \leq x$

or $\frac{5x - 7}{6} \geq 3$

$x \geq 5$ or $x \geq 5$

7) $-45 \geq 15(7x + 18)$ or $-10 \geq \frac{x}{9} + x$

$x \leq -3$

8) $14 > \frac{-x + 35}{3}$ and $\frac{-x - 46}{11} \leq -5$

$x \geq 9$

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