

Name : _____

Score : _____

Solving Compound Inequalities

Multi-step: S2

Solve each inequality.

1) $-52 \geq 13(4x + 36)$ or $-6 \geq \frac{x}{2} + x$

2) $3 \geq \frac{x+19}{8}$ and $\frac{x-15}{10} < -4$

3) $-9 \leq \frac{8x+5}{3} < 15$

or $\frac{7x-2}{5} \geq 8$

5) $\frac{-x+35}{4} > 11$ or $\frac{-x}{7}$

and $-27 > 3(2x - 5)$

7) $x + \frac{6x}{5} \leq -22$ and $13(7 + 5x) < 26$

8) $6 > \frac{3x-9}{2} > -12$

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Name : _____

Answer key

Score : _____

Solving Compound Inequalities

Multi-step: S2

Solve each inequality.

1) $-52 \geq 13(4x + 36)$ or $-6 \geq \frac{x}{2} + x$

$x \leq -4$

2) $3 \geq \frac{x+19}{8}$ and $\frac{x-15}{10} < -4$

$x < -25$

3) $-9 \leq \frac{8x+5}{3} < 15$

$-4 \leq x$

or $\frac{7x-2}{5} \geq 8$

$x \geq 6$

5) $\frac{-x+35}{4} > 11$ or $\frac{-x}{7} > 1$

$x < -9$

and $-27 > 3(2x-5)$

$6 < x < -2$

7) $x + \frac{6x}{5} \leq -22$ and $13(7 + 5x) < 26$

$x \leq -10$

8) $6 > \frac{3x-9}{2} > -12$

$-5 < x < 7$

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