

Name : _____

Score : _____

Solving Compound Inequalities

Multi-step: S3

Solve each inequality.

1) $-4 \leq \frac{3x+2}{10} < -1$

2) $2(6x+8) < -32$ or $\frac{5x-9}{7} \geq 3$

3) $x + \frac{8x}{3} \geq -11$ and $5(x-2) < 10$

5) $-36 \geq 9(6x+14)$ or $4(x-3) < 20$

d) $\frac{-x+19}{13} \leq 2$

7) $\frac{-x+15}{9} > 2$ or $\frac{-x-7}{6} \leq -3$

8) $-4 < \frac{x}{3} + x$ and $-26 > 2(11x+9)$

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Answer key

Score : _____

Solving Compound Inequalities

Multi-step: S3

Solve each inequality.

1) $-4 \leq \frac{3x+2}{10} < -1$

$-14 \leq x < -4$

2) $2(6x+8) < -32$ or $\frac{5x-9}{7} \geq 3$

$x < -4$ or $x \geq 6$

3) $x + \frac{8x}{3} \geq -11$ and $5(x-1) < 26$

$x > -3$

$1 < x < 9$

5) $-36 \geq 9(6x+14)$ or $7(x-1) < 15$

$x \leq -1$

$\frac{-x+19}{13} \leq 2$

$7 \leq x < 18$

7) $\frac{-x+15}{9} > 2$ or $\frac{-x-7}{6} \leq -3$

$x < -3$ or $x \geq 11$

8) $-4 < \frac{x}{3} + x$ and $-26 > 2(11x+9)$

$-3 < x < -2$