

Solving Compound Inequalities

Two-step: S1

Solve each inequality.

1) $5x + 7 > 22$ and $6x - 4 < 26$

2) $-12 \leq \frac{3x}{2} < -6$

3) $11 \geq \frac{x-8}{2} \geq$

or $\frac{x+20}{4} \leq 9$

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5) $2x - 17 \geq -5$

or $x + 23 > 4$

7) $9 < -x + 5 \leq 1$

or 2 or $5x - 1 \geq 9$

9) $\frac{x}{2} - 6 > 13$ and $\frac{x}{4} + 2 > -3$

10) $49 \leq 8x - 7 < 57$

Solving Compound Inequalities

Two-step: S1

Solve each inequality.

1) $5x + 7 > 22$ and $6x - 4 < 26$

$3 < x < 5$

2) $-12 \leq \frac{3x}{2} < -6$

$-8 \leq x < -4$

3) $11 \geq \frac{x-8}{2} \geq$

-12

or $\frac{x+20}{4} \leq 9$

≤ 16

5) $2x - 17 \geq -5$

$x < -3$

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$x + 23 > 4$

$x < 5$

7) $9 < -x + 5 \leq 1$

$-9 \leq x < -4$

2 or $5x - 1 \geq 9$

$x \geq -2$

9) $\frac{x}{2} - 6 > 13$ and $\frac{x}{4} + 2 > -3$

$x > 38$

10) $49 \leq 8x - 7 < 57$

$7 \leq x < 8$