

Solving Compound Inequalities

Two-step: S3

Solve each inequality.

1) $45 > 11x + 1 \geq 23$

2) $\frac{3x}{13} \leq -6$ or $\frac{8x}{7} \leq -16$

3) $12x + 5 \leq -55$

4) $x > 1$ and $-25 < \frac{x}{4} - 21$

5) $8(x - 4) \leq 32$

7) $19x - 18 > -5$

6) $\frac{x + 30}{5} > 4$

9) $-60 < 12(x + 1) \leq -48$

10) $33 - x \leq 37$ or $47 - x \geq 54$

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Solving Compound Inequalities

Two-step: S3

Solve each inequality.

1) $45 > 11x + 1 \geq 23$

$2 \leq x < 4$

2) $\frac{3x}{13} \leq -6$ or $\frac{8x}{7} \leq -16$

$x \leq -14$

3) $12x + 5 \leq -55$

$x \leq -5$

4) $3x - 2 < 130$ and $-25 < \frac{x}{4} - 21$

$x < 42$

5) $8(x - 4) \leq 32$

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$x < -18$

7) $19x - 18 > -5$

$x > -2$

8) $\frac{x + 30}{5} > 4$

$-10 < x \leq 2$

9) $-60 < 12(x + 1) \leq -48$

$-6 < x \leq -5$

10) $33 - x \leq 37$ or $47 - x \geq 54$

$x \leq -7$ or $x \geq -4$