

Solving Compound Inequalities

One-step: S2

Solve each inequality.

1) $22x \leq 44$ and $-14 + x < -11$

2) $x - 33 > 34$ or $x + 25 < 13$

3) $\frac{x}{2} < -1$ or $\frac{x}{3}$

5) $42 < x + 21 <$

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and $\frac{x}{14} \leq 0$

7) $\frac{x}{7} \geq -1$ and

- $x > -31$

9) $-4 > x - 7 \geq -6$

10) $x + 19 \leq 1$ and $x - 15 \leq 3$

Solving Compound Inequalities

One-step: S2

Solve each inequality.

1) $22x \leq 44$ and $-14 + x < -11$

$x \leq 2$

2) $x - 33 > 34$ or $x + 25 < 13$

$x < -12$ or $x > 67$

3) $\frac{x}{2} < -1$ or $\frac{x}{3}$

$x < -2$

$x \leq 5$

5) $42 < x + 21 < 63$ and $\frac{x}{14} \leq 0$

$21 < x < 63$

$x \leq 0$

7) $\frac{x}{7} \geq -1$ and

$x \geq 3$

$-x > -31$

$x > -61$

9) $-4 > x - 7 \geq -6$

$1 \leq x < 3$

10) $x + 19 \leq 1$ and $x - 15 \leq 3$

$x \leq -18$

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