

Solving Compound Inequalities

Two-step: S2

Solve each inequality.

1) $\frac{-x}{5} \leq 2$ or $\frac{-x}{6} \leq 3$

2) $7x - 23 > 12$ and $-4 + 9x < 59$

3) $\frac{x-14}{7} < 2$ and $x + 16$

-8

5) $90 > -20x + 10$

or $6x - 21 \geq 27$

7) $\frac{x}{3} + 2 \leq 4$ and

1

9) $21x - 12 \leq -54$ or $8x + 42 \leq 50$

10) $-19x + 2 < 78$ and $-22x + 3 < 69$

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Solving Compound Inequalities

Two-step: S2

Solve each inequality.

1) $\frac{-x}{5} \leq 2$ or $\frac{-x}{6} \leq 3$

$x \geq -18$

2) $7x - 23 > 12$ and $-4 + 9x < 59$

$5 < x < 7$

3) $\frac{x-14}{7} < 2$ and $x+16 \leq 16$

$x \leq -29$

$x \leq -8$

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5) $90 > -20x + 10$

$x > -4$

or $6x - 21 \geq 27$

or $x \geq 8$

7) $\frac{x}{3} + 2 \leq 4$ and $x \leq 16$

$x \leq 6$

$x \leq -8$

$-27 < x \leq -7$

9) $21x - 12 \leq -54$ or $8x + 42 \leq 50$

$x \leq 1$

10) $-19x + 2 < 78$ and $-22x + 3 < 69$

$x > -3$