

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

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

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

$x + 23 > 4$

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

$2$  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  $\frac{x+20}{4} \leq 9$

$\leq 16$

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

$7 \leq x < 8$