

**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

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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  $-22x + 3 < 69$

## 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  $x+16$

$-29$

$x \leq -8$

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5)  $90 > -20x + 10$

$-4$

or  $6x - 21 \geq 27$

or  $x \geq 8$

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

$x \leq 6$

$x \leq -1$

$-27 < x \leq -7$

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

$x \leq 1$

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

$x > -3$