

**Solving Compound Inequalities**

One-step: S3

Solve each inequality.

1)  $-4 \leq \frac{x}{10} \leq -1$

2)  $13x > 26$  and  $\frac{x}{8} \geq 2$

3)  $16x \geq 48$  or  $1$

$19x < -38$

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5)  $x + 7 > 16$  and

7)  $\frac{x}{35} \geq 0$  or  $-4$

$27 > x - 25$

9)  $x + 3 \geq 17$  or  $8x \leq 24$

10)  $-20 < x + 6 \leq -12$

## Solving Compound Inequalities

One-step: S3

Solve each inequality.

1)  $-4 \leq \frac{x}{10} \leq -1$

$$-40 \leq x \leq -10$$

2)  $13x > 26$  and  $\frac{x}{8} \geq 2$

$$x \geq 16$$

3)  $16x \geq 48$  or  $1$

$$x$$

$19x < -38$

$$\text{or } x > 12$$

5)  $x + 7 > 16$  and

$$9 <$$

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$$x \leq 10$$

7)  $\frac{x}{35} \geq 0$  or  $-4$

$$x \geq 0$$

$27 > x - 25$

**no solution**

9)  $x + 3 \geq 17$  or  $8x \leq 24$

$$x \leq 3 \text{ or } x \geq 14$$

10)  $-20 < x + 6 \leq -12$

$$-26 < x \leq -18$$