

**Solving Two-Step Inequalities**

Fractions: S5

Solve each inequality.

1)  $7x + \frac{5}{4} > 3$

2)  $\frac{1}{3} < \frac{x-9}{7}$

3)  $\frac{5x}{6} + 9 \geq 5$

4)  $10 - x \leq \frac{3x}{7}$

$11 - 4x < \frac{2x}{5}$

7)  $\frac{7}{4}x + 1 \geq \frac{1}{15}$

$-\frac{9}{2} > \frac{x}{8} - 7$

10)  $\frac{6}{5} < \frac{x}{10} - 2$

11)  $\frac{1}{3}x + 2 \geq -16$

12)  $\frac{13}{8}x - 3 \leq \frac{5}{4}$

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**Solving Two-Step Inequalities**

Fractions: S5

Solve each inequality.

1)  $7x + \frac{5}{4} > 3$

$x > \frac{1}{4}$

2)  $\frac{1}{3} < \frac{x-9}{7}$

$x > \frac{34}{3}$

3)  $\frac{5x}{6} + 9 \geq 5$

$x \geq -\frac{24}{5}$

4)  $10 - x \leq \frac{3x}{7}$

$x \geq 7$

$11 - 4x < \frac{2x}{5}$

$x > \frac{5}{2}$

7)  $\frac{7}{4}x + 1 \geq \frac{1}{15}$

$x \geq -\frac{8}{15}$

$-\frac{9}{2} > \frac{x}{8} - 7$

$x < 20$

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10)  $\frac{6}{5} < \frac{x}{10} - 2$

$x > 32$

11)  $\frac{1}{3}x + 2 \geq -16$

$x \geq -54$

12)  $\frac{13}{8}x - 3 \leq \frac{5}{4}$

$x \leq \frac{34}{13}$