

**Solving Two-Step Inequalities**

Fractions: S3

Solve each inequality.

1)  $\frac{9}{5} \leq \frac{x}{10} + 3$

2)  $\frac{6x}{7} - 2 > 16$

3)  $3x + 4 \leq \frac{12}{5}$

4)  $-\frac{1}{3} > \frac{x}{4} - 2$

$\frac{7}{3}x - 4 \geq \frac{1}{6}$

7)  $11 + x < \frac{14x}{3}$

$\frac{1}{20} \leq \frac{x+1}{2}$

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10)  $9x - \frac{1}{4} \geq 3$

11)  $\frac{x}{5} + \frac{2}{7} < 1$

12)  $\frac{x-6}{8} \geq -\frac{1}{3}$

**Solving Two-Step Inequalities**

Fractions: S3

Solve each inequality.

1)  $\frac{9}{5} \leq \frac{x}{10} + 3$

$x \geq -12$

2)  $\frac{6x}{7} - 2 > 16$

$x > 21$

3)  $3x + 4 \leq \frac{12}{5}$

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

4)  $-\frac{1}{3} > \frac{x}{4} - 2$

$x < \frac{20}{3}$

$\frac{7}{3}x - 4 \geq \frac{1}{6}$

$x \geq \frac{25}{14}$

7)  $11 + x < \frac{14x}{3}$

$x > 3$

$\frac{1}{20} \leq \frac{x+1}{2}$

$x \geq -\frac{9}{10}$

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10)  $9x - \frac{1}{4} \geq 3$

$x \geq \frac{13}{36}$

11)  $\frac{x}{5} + \frac{2}{7} < 1$

$x < \frac{25}{7}$

12)  $\frac{x-6}{8} \geq -\frac{1}{3}$

$x \geq \frac{10}{3}$