

**Solving Two-Step Inequalities**

Fractions: S1

Solve each inequality.

1)  $\frac{1}{3}x + 2 < \frac{4}{5}$

2)  $\frac{1}{7}x - 8 > -12$

3)  $\frac{9}{2} \leq \frac{x}{5} + 6$

4)  $-\frac{8}{3} \geq \frac{x}{9} - 6$

$\frac{7}{6}x - 4 > \frac{1}{2}$

7)  $10 + 3x \leq \frac{x}{2}$

$9 + x < \frac{2x}{5}$

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10)  $\frac{4x}{5} - 8 > 4$

11)  $\frac{7}{9} \leq \frac{x+8}{6}$

12)  $6x - \frac{4}{3} \geq 10$

**Solving Two-Step Inequalities**

Fractions: S1

Solve each inequality.

1)  $\frac{1}{3}x + 2 < \frac{4}{5}$

$x < -\frac{18}{5}$

2)  $\frac{1}{7}x - 8 > -12$

$x > -28$

3)  $\frac{9}{2} \leq \frac{x}{5} + 6$

$x \geq -\frac{15}{2}$

4)  $-\frac{8}{3} \geq \frac{x}{9} - 6$

$x \leq 30$

$\frac{7}{6}x - 4 > \frac{1}{2}$

$x > \frac{27}{7}$

7)  $10 + 3x \leq \frac{x}{2}$

$x \leq -4$

$9 + x < \frac{2x}{5}$

$x < -15$

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10)  $\frac{4x}{5} - 8 > 4$

$x > 15$

11)  $\frac{7}{9} \leq \frac{x+8}{6}$

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

12)  $6x - \frac{4}{3} \geq 10$

$x \geq \frac{17}{9}$