

Solving Two-Step Inequalities

Fractions: S2

Solve each inequality.

1) $\frac{1}{5}x - 2 > -8$

2) $\frac{7}{3} \leq \frac{x}{2} + 5$

3) $\frac{1}{8}x - 3 \geq \frac{1}{2}$

4) $\frac{x}{6} + \frac{2}{9} < 1$

$7x + 8 \leq \frac{10}{3}$

7) $\frac{x-9}{2} \geq -\frac{1}{10}$

$\frac{2x}{5} - 16 > 2$

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10) $\frac{1}{12} \leq \frac{x+7}{8}$

11) $9x - \frac{1}{7} \geq 5$

12) $3 + 4x < \frac{5x}{6}$

Solving Two-Step Inequalities

Fractions: S2

Solve each inequality.

1) $\frac{1}{5}x - 2 > -8$

$x > -30$

2) $\frac{7}{3} \leq \frac{x}{2} + 5$

$x \geq -\frac{16}{3}$

3) $\frac{1}{8}x - 3 \geq \frac{1}{2}$

$x \geq 28$

4) $\frac{x}{6} + \frac{2}{9} < 1$

$x < \frac{14}{3}$

$7x + 8 \leq \frac{10}{3}$

$x \leq -\frac{2}{3}$

7) $\frac{x-9}{2} \geq -\frac{1}{10}$

$x \geq \frac{44}{5}$

$\frac{2x}{5} - 16 > 2$

$x > 45$

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10) $\frac{1}{12} \leq \frac{x+7}{8}$

$x \geq -\frac{19}{3}$

11) $9x - \frac{1}{7} \geq 5$

$x \geq \frac{4}{7}$

12) $3 + 4x < \frac{5x}{6}$

$x < -\frac{18}{19}$