

## Solving Two-Step Inequalities

Fractions: S4

Solve each inequality.

1)  $4 - 5x \leq \frac{x}{7}$

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

3)  $\frac{1}{11} < \frac{x-6}{22}$

4)  $\frac{2x}{3} + 17 \geq 9$

$\frac{x+8}{3} > -\frac{7}{9}$

7)  $9x - 7 < \frac{13}{2}$

$\frac{x}{5} - \frac{3}{10} \leq 2$

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10)  $\frac{1}{9}x + 4 > \frac{1}{3}$

11)  $\frac{8}{5} < \frac{x}{10} - 2$

12)  $\frac{1}{8}x - 3 \geq -4$

**Solving Two-Step Inequalities**

Fractions: S4

Solve each inequality.

1)  $4 - 5x \leq \frac{x}{7}$

$x \geq \frac{7}{9}$

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

$x > \frac{5}{24}$

3)  $\frac{1}{11} < \frac{x-6}{22}$

$x > 8$

4)  $\frac{2x}{3} + 17 \geq 9$

$x \geq -12$

$\frac{x+8}{3} > -\frac{7}{9}$

$x > -\frac{31}{3}$

7)  $9x - 7 < \frac{13}{2}$

$x < \frac{3}{2}$

$\frac{x}{5} - \frac{3}{10} \leq 2$

$x \leq \frac{23}{2}$

10)  $\frac{1}{9}x + 4 > \frac{1}{3}$

$x > -33$

11)  $\frac{8}{5} < \frac{x}{10} - 2$

$x > 36$

12)  $\frac{1}{8}x - 3 \geq -4$

$x \geq -8$

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