

Solving Multi-Step Inequalities

DS3

Solve each inequality.

1) $\frac{1}{x+5} \leq \frac{2}{x-3}$

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

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

$\frac{7}{3}$

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5) $7 - 11x \leq 2$

7) $x + 1 < \frac{3x + 8}{2}$

8) $\frac{9x + 2}{x + 2} > 5$

Solving Multi-Step Inequalities

DS3

Solve each inequality.

1) $\frac{1}{x+5} \leq \frac{2}{x-3}$

$x \geq -13$

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

$x > -7$

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

x

$\frac{7}{3}$

$-\frac{1}{6}$

5) $7 - 11x \leq 2$

x

-21

7) $x + 1 < \frac{3x + 8}{2}$

$x > -6$

8) $\frac{9x + 2}{x + 2} > 5$

$x > 2$

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