

Solving Multi-Step Inequalities

DS1

Solve each inequality.

1) $x + 5 \leq 2(x - 3) + 2$

2) $3(2x - 1) < 3x + \frac{1}{2}$

3) $\frac{x}{3} + \frac{3x}{2} \geq x$

5) $4x - 3(3 - x)$

7) $x + 2 \geq \frac{1}{3}(x - 2)$

8) $\frac{3x - 3}{7x + 3} > 4$

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Solving Multi-Step Inequalities

DS1

Solve each inequality.

1) $x + 5 \leq 2(x - 3) + 2$

$x \geq 9$

2) $3(2x - 1) < 3x + \frac{1}{2}$

$x < \frac{7}{6}$

3) $\frac{x}{3} + \frac{3x}{2} \geq x$

x

$\frac{4}{3}$

5) $4x - 3(3 - x)$

x

-1

7) $x + 2 \geq \frac{1}{3}(x - 2)$

$x \geq -4$

8) $\frac{3x - 3}{7x + 3} > 4$

$x < -\frac{3}{5}$

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