

Solving Multi-Step Inequalities

ES1

Solve each inequality.

1) $3(6x + 2) < 9$

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

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

4) $25 + \frac{2x}{3} \leq 35 - x$

5) $\frac{4x + 11}{2} \geq 6$

6) $8(1 + 2x) < 32$

7) $\frac{3x}{7} + x \leq 30$

8) $\frac{7x - 4}{6} > 4$

Solving Multi-Step Inequalities

ES1

Solve each inequality.

1) $3(6x + 2) < 9$

$x < \frac{1}{6}$

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

$x \geq 7$

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

$x > \frac{8}{11}$

4) $25 + \frac{2x}{3} \leq 35 - x$

$x \leq 6$

5) $\frac{4x + 11}{2} \geq 6$

$x \geq \frac{1}{4}$

6) $8(1 + 2x) < 32$

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

7) $\frac{3x}{7} + x \leq 30$

$x \leq 21$

8) $\frac{7x - 4}{6} > 4$

$x > 4$