

Solving Multi-Step Inequalities

Solve each inequality.

1) $\frac{9x + 16}{3} < 7$

2) $\frac{18 - 8a}{a} \geq -10$

3) $5k - 7 \leq k + 1$

4) $-3v + 7 > 5 - 6v$

5) $14 + 8c \geq 4c + 17$

6) $\frac{-6 + 7r}{2} < 11$

7) $\frac{7 - 9n}{4} > -n$

8) $-16 + 7q \leq 3(3 + 4q)$

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Answer key

Solve each inequality.

1) $\frac{9x + 16}{3} < 7$

$$x < \frac{5}{9}$$

2) $\frac{18 - 8a}{a} \geq -10$

$$a \geq -9$$

3) $5k - 7 \leq k + 1$

$$k \leq 2$$

4) $-3v + 7 > 5 - 6v$

$$v > -\frac{2}{3}$$

5) $14 + 8c \geq 4c + 17$

$$c \geq \frac{3}{4}$$

6) $\frac{-6 + 7r}{2} < 11$

$$r < 4$$

7) $\frac{7 - 9n}{4} > -n$

$$n < \frac{7}{5}$$

8) $-16 + 7q \leq 3(3 + 4q)$

$$q \geq -5$$
