

Solving Multi-Step Inequalities

Solve each inequality.

1) $-2 + 7p \leq 5(2p + 1)$

2) $\frac{-9 + 7m}{4} > 10$

3) $-3u + 11 < 4u - 3$

4) $\frac{4(k + 1)}{3} \geq 2$

5) $\frac{2z + 15}{7} > z$

6) $5s + 2 \leq 7 + 9s$

7) $\frac{7 - 5v}{3} \geq v$

8) $-11 + 6d < 8d + 13$

Solving Multi-Step Inequalities

Answer key

Solve each inequality.

1) $-2 + 7p \leq 5(2p + 1)$

$$p \geq -\frac{7}{3}$$

2) $\frac{-9 + 7m}{4} > 10$

$$m > 7$$

3) $-3u + 11 < 4u - 3$

$$u > 2$$

4) $\frac{4(k + 1)}{3} \geq 2$

$$k \geq \frac{1}{2}$$

5) $\frac{2z + 15}{7} > z$

$$z < 3$$

6) $5s + 2 \leq 7 + 9s$

$$s \geq -\frac{5}{4}$$

7) $\frac{7 - 5v}{3} \geq v$

$$v \leq \frac{7}{8}$$

8) $-11 + 6d < 8d + 13$

$$d > -12$$
