

## Solving Linear Inequalities (H)

Solve each inequality for the given variable.

1.  $1 > -2 - \frac{5d}{-4}$

2.  $2 < -3 + \frac{5m}{4}$

3.  $\frac{9c}{-4} + 1 \leq -1$

4.  $4 \geq -\frac{2w}{-3} - 5$

5.  $1 \geq \frac{w}{-8} + 8$

6.  $-9 \leq -1 - \frac{7z}{6}$

7.  $-5 \leq -\frac{8a}{-7} - 4$

8.  $-\frac{9z}{9} - 7 > -7$

9.  $-4 + \frac{6d}{3} < -6$

10.  $1 < -\frac{9y}{9} + 2$

# Solving Linear Inequalities (H) Answers

Solve each inequality for the given variable.

1.  $1 > -2 - \frac{5d}{-4}$

$$d < 2\frac{2}{5}$$

2.  $2 < -3 + \frac{5m}{4}$

$$m > 4$$

3.  $\frac{9c}{-4} + 1 \leq -1$

$$c \geq \frac{8}{9}$$

4.  $4 \geq -\frac{2w}{-3} - 5$

$$w \leq 13\frac{1}{2}$$

5.  $1 \geq \frac{w}{-8} + 8$

$$w \geq 56$$

6.  $-9 \leq -1 - \frac{7z}{6}$

$$z \leq 6\frac{6}{7}$$

7.  $-5 \leq -\frac{8a}{-7} - 4$

$$a \geq -\frac{7}{8}$$

8.  $-\frac{9z}{9} - 7 > -7$

$$z < 0$$

9.  $-4 + \frac{6d}{3} < -6$

$$d < -1$$

10.  $1 < -\frac{9y}{9} + 2$

$$y < 1$$