

## Solving Linear Inequalities (F)

Solve each inequality for the given variable.

1.  $-1 \geq -\frac{8t}{6} - 6$

2.  $8 < \frac{9y}{3} + 9$

3.  $\frac{7y}{-6} - 2 > -9$

4.  $-3 \geq -\frac{5g}{-9} + 3$

5.  $6 > \frac{6w}{-3} - 8$

6.  $7 \geq -\frac{8c}{-4} - 5$

7.  $-4 \leq 3 - \frac{9b}{3}$

8.  $8 > 2 + \frac{4q}{-8}$

9.  $-\frac{4j}{5} - 4 > -9$

10.  $-1 + \frac{9j}{9} \leq -3$

# Solving Linear Inequalities (F) Answers

Solve each inequality for the given variable.

1.  $-1 \geq -\frac{8t}{6} - 6$

$$t \geq -3\frac{3}{4}$$

2.  $8 < \frac{9y}{3} + 9$

$$y > -\frac{1}{3}$$

3.  $\frac{7y}{-6} - 2 > -9$

$$y < 6$$

4.  $-3 \geq -\frac{5g}{-9} + 3$

$$g \leq -10\frac{4}{5}$$

5.  $6 > \frac{6w}{-3} - 8$

$$w > -7$$

6.  $7 \geq -\frac{8c}{-4} - 5$

$$c \leq 6$$

7.  $-4 \leq 3 - \frac{9b}{3}$

$$b \leq 2\frac{1}{3}$$

8.  $8 > 2 + \frac{4q}{-8}$

$$q > -12$$

9.  $-\frac{4j}{5} - 4 > -9$

$$j < 6\frac{1}{4}$$

10.  $-1 + \frac{9j}{9} \leq -3$

$$j \leq -2$$