

## Solving Linear Inequalities (D)

Solve each inequality for the given variable.

1.  $8 \leq \frac{j}{3} - 9$

2.  $-\frac{2f}{-3} + 1 > -3$

3.  $6 + \frac{5c}{-7} > -1$

4.  $\frac{9n}{-4} - 5 \geq -6$

5.  $-\frac{5q}{9} - 5 \geq -8$

6.  $3 > -\frac{6m}{-4} + 7$

7.  $-\frac{3f}{-7} + 3 > 5$

8.  $-\frac{6j}{-9} + 4 \leq 9$

9.  $\frac{2q}{8} - 5 > 8$

10.  $-9 + \frac{4a}{-8} > 1$

## Solving Linear Inequalities (D) Answers

Solve each inequality for the given variable.

$$1. \quad 8 \leq \frac{j}{3} - 9$$
$$j \geq 51$$

$$2. \quad -\frac{2f}{-3} + 1 > -3$$
$$f > -6$$

$$3. \quad 6 + \frac{5c}{-7} > -1$$
$$c < 9\frac{4}{5}$$

$$4. \quad \frac{9n}{-4} - 5 \geq -6$$
$$n \leq \frac{4}{9}$$

$$5. \quad -\frac{5q}{9} - 5 \geq -8$$
$$q \leq 5\frac{2}{5}$$

$$6. \quad 3 > -\frac{6m}{-4} + 7$$
$$m < -2\frac{2}{3}$$

$$7. \quad -\frac{3f}{-7} + 3 > 5$$
$$f > 4\frac{2}{3}$$

$$8. \quad -\frac{6j}{-9} + 4 \leq 9$$
$$j \leq 7\frac{1}{2}$$

$$9. \quad \frac{2q}{8} - 5 > 8$$
$$q > 52$$

$$10. \quad -9 + \frac{4a}{-8} > 1$$
$$a < -20$$