

Solving Linear Inequalities (C)

Solve each inequality for the given variable.

1. $-3 < -5 + \frac{3d}{-8}$

2. $8 < -\frac{5z}{-8} - 1$

3. $-1 > 2 - \frac{9y}{7}$

4. $-8 \geq -\frac{8y}{-9} + 2$

5. $-9 \leq \frac{7a}{-4} - 4$

6. $-7 \leq \frac{5m}{3} + 8$

7. $9 - \frac{6b}{-7} < -4$

8. $6 < -\frac{k}{-9} - 7$

9. $-\frac{5y}{5} + 4 \leq 5$

10. $1 > -\frac{8s}{-9} - 7$

Solving Linear Inequalities (C) Answers

Solve each inequality for the given variable.

$$1. \quad -3 < -5 + \frac{3d}{-8}$$

$$d < -5\frac{1}{3}$$

$$2. \quad 8 < -\frac{5z}{-8} - 1$$

$$z > 14\frac{2}{5}$$

$$3. \quad -1 > 2 - \frac{9y}{7}$$

$$y > 2\frac{1}{3}$$

$$4. \quad -8 \geq -\frac{8y}{-9} + 2$$

$$y \leq -11\frac{1}{4}$$

$$5. \quad -9 \leq \frac{7a}{-4} - 4$$

$$a \leq 2\frac{6}{7}$$

$$6. \quad -7 \leq \frac{5m}{3} + 8$$

$$m \geq -9$$

$$7. \quad 9 - \frac{6b}{-7} < -4$$

$$b < -15\frac{1}{6}$$

$$8. \quad 6 < -\frac{k}{-9} - 7$$

$$k > 117$$

$$9. \quad -\frac{5y}{5} + 4 \leq 5$$

$$y \geq -1$$

$$10. \quad 1 > -\frac{8s}{-9} - 7$$

$$s < 9$$