

Solving Linear Inequalities (J)

Solve each inequality for the given variable.

1. $-\frac{8z}{-5} - 3 \geq 9$

2. $-3 \leq -\frac{7g}{6} + 6$

3. $\frac{6w}{4} + 1 < 6$

4. $-6 - \frac{5j}{-7} \geq -9$

5. $1 < -4 + \frac{3w}{5}$

6. $-8 - \frac{9z}{9} \leq -9$

7. $3 < -8 + \frac{n}{-4}$

8. $3 - \frac{4z}{8} \leq 4$

9. $\frac{4c}{-8} + 3 > 4$

10. $-4 > 5 + \frac{7q}{-7}$

Solving Linear Inequalities (J) Answers

Solve each inequality for the given variable.

1. $-\frac{8z}{-5} - 3 \geq 9$

$$z \geq 7\frac{1}{2}$$

2. $-3 \leq -\frac{7g}{6} + 6$

$$g \leq 7\frac{5}{7}$$

3. $\frac{6w}{4} + 1 < 6$

$$w < 3\frac{1}{3}$$

4. $-6 - \frac{5j}{-7} \geq -9$

$$j \geq -4\frac{1}{5}$$

5. $1 < -4 + \frac{3w}{5}$

$$w > 8\frac{1}{3}$$

6. $-8 - \frac{9z}{9} \leq -9$

$$z \geq 1$$

7. $3 < -8 + \frac{n}{-4}$

$$n < -44$$

8. $3 - \frac{4z}{8} \leq 4$

$$z \geq -2$$

9. $\frac{4c}{-8} + 3 > 4$

$$c < -2$$

10. $-4 > 5 + \frac{7q}{-7}$

$$q > 9$$