

Solving Linear Inequalities (A)

Solve each inequality for the given variable.

1. $-2 - \frac{7a}{-4} \leq -7$

2. $2 < 1 - \frac{3b}{-5}$

3. $5 \geq -\frac{3g}{-8} + 8$

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

5. $2 + \frac{f}{-9} < -7$

6. $8 + \frac{6j}{7} > -6$

7. $7 < -\frac{8t}{-5} + 2$

8. $-6 > -\frac{6f}{-7} - 4$

9. $9 > \frac{5n}{3} - 1$

10. $-3 - \frac{7p}{4} \geq 3$

Solving Linear Inequalities (A) Answers

Solve each inequality for the given variable.

1. $-2 - \frac{7a}{-4} \leq -7$

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

2. $2 < 1 - \frac{3b}{-5}$

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

3. $5 \geq -\frac{3g}{-8} + 8$

$$g \leq -8$$

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

$$h \geq 3\frac{3}{5}$$

5. $2 + \frac{f}{-9} < -7$

$$f > 81$$

6. $8 + \frac{6j}{7} > -6$

$$j > -16\frac{1}{3}$$

7. $7 < -\frac{8t}{-5} + 2$

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

8. $-6 > -\frac{6f}{-7} - 4$

$$f < -2\frac{1}{3}$$

9. $9 > \frac{5n}{3} - 1$

$$n < 6$$

10. $-3 - \frac{7p}{4} \geq 3$

$$p \leq -3\frac{3}{7}$$

Solving Linear Inequalities (B)

Solve each inequality for the given variable.

1. $9 + \frac{9h}{6} > -9$

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

3. $-\frac{6b}{2} - 6 < -4$

4. $4 - \frac{3q}{4} > 8$

5. $\frac{9j}{-2} + 9 \leq -1$

6. $-8 \geq -\frac{4n}{5} + 1$

7. $7 < -8 - \frac{2g}{8}$

8. $-\frac{3j}{-5} - 1 \geq 7$

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

10. $6 - \frac{4n}{5} \leq 1$

Solving Linear Inequalities (B) Answers

Solve each inequality for the given variable.

1. $9 + \frac{9h}{6} > -9$

$$h > -12$$

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

$$c > 5\frac{1}{7}$$

3. $-\frac{6b}{2} - 6 < -4$

$$b > -\frac{2}{3}$$

4. $4 - \frac{3q}{4} > 8$

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

5. $\frac{9j}{-2} + 9 \leq -1$

$$j \geq 2\frac{2}{9}$$

6. $-8 \geq -\frac{4n}{5} + 1$

$$n \geq 11\frac{1}{4}$$

7. $7 < -8 - \frac{2g}{8}$

$$g < -60$$

8. $-\frac{3j}{-5} - 1 \geq 7$

$$j \geq 13\frac{1}{3}$$

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

$$q < -\frac{1}{3}$$

10. $6 - \frac{4n}{5} \leq 1$

$$n \geq 6\frac{1}{4}$$

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

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

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

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

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

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

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

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

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

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

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

$$m \geq -9$$

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

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

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

$$k > 117$$

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

$$y \geq -1$$

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

$$s < 9$$

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

$$j \geq 51$$

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

$$f > -6$$

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

$$c < 9\frac{4}{5}$$

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

$$n \leq \frac{4}{9}$$

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

$$q \leq 5\frac{2}{5}$$

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

$$m < -2\frac{2}{3}$$

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

$$f > 4\frac{2}{3}$$

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

$$j \leq 7\frac{1}{2}$$

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

$$q > 52$$

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

$$a < -20$$

Solving Linear Inequalities (E)

Solve each inequality for the given variable.

1. $-5 - \frac{4f}{-7} \geq -9$

2. $\frac{5c}{-9} - 5 \leq -4$

3. $-7 \leq 6 + \frac{3p}{-9}$

4. $6 \leq 2 - \frac{9c}{8}$

5. $2 \geq -\frac{2a}{-7} + 8$

6. $3 + \frac{t}{-8} > 8$

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

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

9. $\frac{3d}{-9} + 2 > 6$

10. $-2 \leq 6 - \frac{8r}{-2}$

Solving Linear Inequalities (E) Answers

Solve each inequality for the given variable.

$$1. \quad -5 - \frac{4f}{-7} \geq -9$$

$$f \geq -7$$

$$2. \quad \frac{5c}{-9} - 5 \leq -4$$

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

$$3. \quad -7 \leq 6 + \frac{3p}{-9}$$

$$p \leq 39$$

$$4. \quad 6 \leq 2 - \frac{9c}{8}$$

$$c \leq -3\frac{5}{9}$$

$$5. \quad 2 \geq -\frac{2a}{-7} + 8$$

$$a \leq -21$$

$$6. \quad 3 + \frac{t}{-8} > 8$$

$$t < -40$$

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

$$m < -14\frac{2}{3}$$

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

$$g \geq -4\frac{4}{5}$$

$$9. \quad \frac{3d}{-9} + 2 > 6$$

$$d < -12$$

$$10. \quad -2 \leq 6 - \frac{8r}{-2}$$

$$r \geq -2$$

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

$$j \leq -2$$

Solving Linear Inequalities (G)

Solve each inequality for the given variable.

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

2. $5 - \frac{5d}{4} \leq 8$

3. $-2 \geq -9 + \frac{4c}{-9}$

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

5. $6 > -5 + \frac{9d}{-2}$

6. $-2 < -\frac{5c}{-6} - 5$

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

8. $6 - \frac{5g}{2} < 5$

9. $9 \geq 3 - \frac{2k}{9}$

10. $\frac{7g}{-8} + 4 < -2$

Solving Linear Inequalities (G) Answers

Solve each inequality for the given variable.

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

$$d \leq 6\frac{7}{8}$$

2. $5 - \frac{5d}{4} \leq 8$

$$d \geq -2\frac{2}{5}$$

3. $-2 \geq -9 + \frac{4c}{-9}$

$$c \geq -15\frac{3}{4}$$

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

$$n \geq 5\frac{3}{5}$$

5. $6 > -5 + \frac{9d}{-2}$

$$d > -2\frac{4}{9}$$

6. $-2 < -\frac{5c}{-6} - 5$

$$c > 3\frac{3}{5}$$

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

$$z < \frac{3}{7}$$

8. $6 - \frac{5g}{2} < 5$

$$g > \frac{2}{5}$$

9. $9 \geq 3 - \frac{2k}{9}$

$$k \geq -27$$

10. $\frac{7g}{-8} + 4 < -2$

$$g > 6\frac{6}{7}$$

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

$$y < 1$$

Solving Linear Inequalities (I)

Solve each inequality for the given variable.

1. $\frac{2g}{-5} - 4 \geq 2$

2. $-\frac{6b}{6} + 6 > 9$

3. $\frac{2g}{-5} - 3 < -5$

4. $-2 - \frac{5m}{9} > 3$

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

6. $-4 + \frac{2w}{-2} \leq 8$

7. $-5 < -7 - \frac{d}{9}$

8. $-1 > -7 + \frac{4r}{8}$

9. $\frac{5r}{-4} - 8 \leq 2$

10. $-\frac{7j}{-3} - 9 < 7$

Solving Linear Inequalities (I) Answers

Solve each inequality for the given variable.

1. $\frac{2g}{-5} - 4 \geq 2$

$$g \leq -15$$

2. $-\frac{6b}{6} + 6 > 9$

$$b < -3$$

3. $\frac{2g}{-5} - 3 < -5$

$$g > 5$$

4. $-2 - \frac{5m}{9} > 3$

$$m < -9$$

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

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

6. $-4 + \frac{2w}{-2} \leq 8$

$$w \geq -12$$

7. $-5 < -7 - \frac{d}{9}$

$$d < -18$$

8. $-1 > -7 + \frac{4r}{8}$

$$r < 12$$

9. $\frac{5r}{-4} - 8 \leq 2$

$$r \geq -8$$

10. $-\frac{7j}{-3} - 9 < 7$

$$j < 6\frac{6}{7}$$

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

$$q > 9$$