

## Linear Systems (A)

Solve each system of equations.

1.  $6b + 4y = 54$   
 $4b = 20$

5.  $2b + c = 12$   
 $2b = 10$

2.  $a + 4x = 11$   
 $6a = 18$

6.  $6c + z = 31$   
 $5c = 25$

3.  $4u + 5v = 30$   
 $5u = 25$

7.  $6b + 4v = 14$   
 $5b = 5$

4.  $2u + 5y = 15$   
 $4u = 20$

8.  $2x + 6z = 14$   
 $5x = 5$

## Linear Systems (A) Answers

Solve each system of equations.

1.  $6b + 4y = 54$   
 $4b = 20$   
 $b = 5, y = 6$

5.  $2b + c = 12$   
 $2b = 10$   
 $b = 5, c = 2$

2.  $a + 4x = 11$   
 $6a = 18$   
 $a = 3, x = 2$

6.  $6c + z = 31$   
 $5c = 25$   
 $c = 5, z = 1$

3.  $4u + 5v = 30$   
 $5u = 25$   
 $u = 5, v = 2$

7.  $6b + 4v = 14$   
 $5b = 5$   
 $b = 1, v = 2$

4.  $2u + 5y = 15$   
 $4u = 20$   
 $u = 5, y = 1$

8.  $2x + 6z = 14$   
 $5x = 5$   
 $x = 1, z = 2$

## Linear Systems (B)

Solve each system of equations.

1.  $2b + 2z = 14$   
 $6b = 18$

5.  $4a + 3x = 15$   
 $5a = 15$

2.  $2a + 3c = 9$   
 $5a = 15$

6.  $4a + 6v = 34$   
 $5a = 20$

3.  $6c + 3v = 36$   
 $5c = 20$

7.  $3b + x = 4$   
 $6b = 6$

4.  $c + 2y = 11$   
 $6c = 18$

8.  $5a + 6u = 60$   
 $6a = 36$

## Linear Systems (B) Answers

Solve each system of equations.

1.  $2b + 2z = 14$   
 $6b = 18$   
 $b = 3, z = 4$

5.  $4a + 3x = 15$   
 $5a = 15$   
 $a = 3, x = 1$

2.  $2a + 3c = 9$   
 $5a = 15$   
 $a = 3, c = 1$

6.  $4a + 6v = 34$   
 $5a = 20$   
 $a = 4, v = 3$

3.  $6c + 3v = 36$   
 $5c = 20$   
 $c = 4, v = 4$

7.  $3b + x = 4$   
 $6b = 6$   
 $b = 1, x = 1$

4.  $c + 2y = 11$   
 $6c = 18$   
 $c = 3, y = 4$

8.  $5a + 6u = 60$   
 $6a = 36$   
 $a = 6, u = 5$

## Linear Systems (C)

Solve each system of equations.

1.  $4c + 2v = 20$   
 $2c = 8$

5.  $3a + 4u = 23$   
 $3a = 3$

2.  $4u + 4z = 28$   
 $2u = 2$

6.  $3u + 4z = 38$   
 $5u = 30$

3.  $4x + z = 18$   
 $4x = 16$

7.  $2a + 2b = 10$   
 $4a = 4$

4.  $2b + 2x = 14$   
 $4b = 4$

8.  $4u + 5y = 17$   
 $2u = 6$

## Linear Systems (C) Answers

Solve each system of equations.

1.  $4c + 2v = 20$   
 $2c = 8$   
 $c = 4, v = 2$

5.  $3a + 4u = 23$   
 $3a = 3$   
 $a = 1, u = 5$

2.  $4u + 4z = 28$   
 $2u = 2$   
 $u = 1, z = 6$

6.  $3u + 4z = 38$   
 $5u = 30$   
 $u = 6, z = 5$

3.  $4x + z = 18$   
 $4x = 16$   
 $x = 4, z = 2$

7.  $2a + 2b = 10$   
 $4a = 4$   
 $a = 1, b = 4$

4.  $2b + 2x = 14$   
 $4b = 4$   
 $b = 1, x = 6$

8.  $4u + 5y = 17$   
 $2u = 6$   
 $u = 3, y = 1$

## Linear Systems (D)

Solve each system of equations.

1.  $4c + 2v = 28$   
 $6c = 36$

5.  $2c + 3y = 15$   
 $c = 6$

2.  $y + 4z = 10$   
 $6y = 36$

6.  $3b + 4u = 14$   
 $6b = 12$

3.  $6a + b = 40$   
 $4a = 24$

7.  $4c + 2u = 28$   
 $4c = 24$

4.  $4x + 2y = 22$   
 $2x = 6$

8.  $5v + 3y = 42$   
 $2v = 12$

## Linear Systems (D) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & 4c + 2v = 28 \\ & 6c = 36 \\ & c = 6, v = 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 2c + 3y = 15 \\ & c = 6 \\ & c = 6, y = 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & y + 4z = 10 \\ & 6y = 36 \\ & y = 6, z = 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & 3b + 4u = 14 \\ & 6b = 12 \\ & b = 2, u = 2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6a + b = 40 \\ & 4a = 24 \\ & a = 6, b = 4 \end{aligned}$$

$$\begin{aligned} 7. \quad & 4c + 2u = 28 \\ & 4c = 24 \\ & c = 6, u = 2 \end{aligned}$$

$$\begin{aligned} 4. \quad & 4x + 2y = 22 \\ & 2x = 6 \\ & x = 3, y = 5 \end{aligned}$$

$$\begin{aligned} 8. \quad & 5v + 3y = 42 \\ & 2v = 12 \\ & v = 6, y = 4 \end{aligned}$$

## Linear Systems (E)

Solve each system of equations.

1.  $5u + x = 21$   
 $u = 3$

5.  $4y + z = 26$   
 $6y = 36$

2.  $2u + 3y = 17$   
 $u = 1$

6.  $5b + 6v = 35$   
 $4b = 4$

3.  $6b + 4c = 22$   
 $6b = 18$

7.  $6b + u = 13$   
 $6b = 12$

4.  $5b + 4u = 46$   
 $b = 6$

8.  $3v + 2z = 19$   
 $6v = 18$

## Linear Systems (E) Answers

Solve each system of equations.

1.  $5u + x = 21$   
 $u = 3$   
 $u = 3, x = 6$

5.  $4y + z = 26$   
 $6y = 36$   
 $y = 6, z = 2$

2.  $2u + 3y = 17$   
 $u = 1$   
 $u = 1, y = 5$

6.  $5b + 6v = 35$   
 $4b = 4$   
 $b = 1, v = 5$

3.  $6b + 4c = 22$   
 $6b = 18$   
 $b = 3, c = 1$

7.  $6b + u = 13$   
 $6b = 12$   
 $b = 2, u = 1$

4.  $5b + 4u = 46$   
 $b = 6$   
 $b = 6, u = 4$

8.  $3v + 2z = 19$   
 $6v = 18$   
 $v = 3, z = 5$

## Linear Systems (F)

Solve each system of equations.

1.  $4v + 2z = 30$   
 $4v = 24$

5.  $6x + 4z = 30$   
 $x = 3$

2.  $2y + z = 8$   
 $y = 2$

6.  $2c + v = 13$   
 $4c = 24$

3.  $2c + 6x = 26$   
 $3c = 12$

7.  $2c + 3x = 7$   
 $4c = 8$

4.  $2c + 2u = 14$   
 $4c = 16$

8.  $u + 2y = 16$   
 $4u = 16$

## Linear Systems (F) Answers

Solve each system of equations.

$$\begin{aligned} 1. \quad & 4v + 2z = 30 \\ & 4v = 24 \\ & v = 6, z = 3 \end{aligned}$$

$$\begin{aligned} 5. \quad & 6x + 4z = 30 \\ & x = 3 \\ & x = 3, z = 3 \end{aligned}$$

$$\begin{aligned} 2. \quad & 2y + z = 8 \\ & y = 2 \\ & y = 2, z = 4 \end{aligned}$$

$$\begin{aligned} 6. \quad & 2c + v = 13 \\ & 4c = 24 \\ & c = 6, v = 1 \end{aligned}$$

$$\begin{aligned} 3. \quad & 2c + 6x = 26 \\ & 3c = 12 \\ & c = 4, x = 3 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2c + 3x = 7 \\ & 4c = 8 \\ & c = 2, x = 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & 2c + 2u = 14 \\ & 4c = 16 \\ & c = 4, u = 3 \end{aligned}$$

$$\begin{aligned} 8. \quad & u + 2y = 16 \\ & 4u = 16 \\ & u = 4, y = 6 \end{aligned}$$

## Linear Systems (G)

Solve each system of equations.

1.  $a + 6c = 20$   
 $5a = 10$

5.  $2a + 6x = 14$   
 $4a = 16$

2.  $6u + 2v = 30$   
 $u = 4$

6.  $6a + 3u = 27$   
 $4a = 16$

3.  $u + z = 6$   
 $6u = 24$

7.  $4a + 4x = 28$   
 $a = 2$

4.  $5a + 4z = 30$   
 $6a = 12$

8.  $3b + 4v = 19$   
 $6b = 30$

## Linear Systems (G) Answers

Solve each system of equations.

1.  $a + 6c = 20$   
 $5a = 10$   
 $a = 2, c = 3$

5.  $2a + 6x = 14$   
 $4a = 16$   
 $a = 4, x = 1$

2.  $6u + 2v = 30$   
 $u = 4$   
 $u = 4, v = 3$

6.  $6a + 3u = 27$   
 $4a = 16$   
 $a = 4, u = 1$

3.  $u + z = 6$   
 $6u = 24$   
 $u = 4, z = 2$

7.  $4a + 4x = 28$   
 $a = 2$   
 $a = 2, x = 5$

4.  $5a + 4z = 30$   
 $6a = 12$   
 $a = 2, z = 5$

8.  $3b + 4v = 19$   
 $6b = 30$   
 $b = 5, v = 1$

## Linear Systems (H)

Solve each system of equations.

1.  $4a + 6c = 14$   
 $6a = 12$

5.  $6b + 6c = 48$   
 $2b = 6$

2.  $2c + 6y = 20$   
 $5c = 20$

6.  $3u + 3v = 36$   
 $2u = 12$

3.  $5a + 6y = 37$   
 $a = 5$

7.  $2b + 2c = 20$   
 $4b = 16$

4.  $3a + 5y = 30$   
 $5a = 25$

8.  $2b + 5v = 9$   
 $3b = 6$

## Linear Systems (H) Answers

Solve each system of equations.

1.  $4a + 6c = 14$   
 $6a = 12$   
 $a = 2, c = 1$

5.  $6b + 6c = 48$   
 $2b = 6$   
 $b = 3, c = 5$

2.  $2c + 6y = 20$   
 $5c = 20$   
 $c = 4, y = 2$

6.  $3u + 3v = 36$   
 $2u = 12$   
 $u = 6, v = 6$

3.  $5a + 6y = 37$   
 $a = 5$   
 $a = 5, y = 2$

7.  $2b + 2c = 20$   
 $4b = 16$   
 $b = 4, c = 6$

4.  $3a + 5y = 30$   
 $5a = 25$   
 $a = 5, y = 3$

8.  $2b + 5v = 9$   
 $3b = 6$   
 $b = 2, v = 1$

## Linear Systems (I)

Solve each system of equations.

1.  $3a + 6v = 42$   
 $4a = 8$

5.  $5a + 3c = 36$   
 $5a = 30$

2.  $5u + 5v = 10$   
 $3u = 3$

6.  $5c + 6v = 23$   
 $5c = 5$

3.  $6v + 6z = 60$   
 $6v = 24$

7.  $3a + 5u = 33$   
 $a = 6$

4.  $5u + y = 16$   
 $6u = 18$

8.  $6a + b = 12$   
 $4a = 4$

## Linear Systems (I) Answers

Solve each system of equations.

1.  $3a + 6v = 42$   
 $4a = 8$   
 $a = 2, v = 6$

5.  $5a + 3c = 36$   
 $5a = 30$   
 $a = 6, c = 2$

2.  $5u + 5v = 10$   
 $3u = 3$   
 $u = 1, v = 1$

6.  $5c + 6v = 23$   
 $5c = 5$   
 $c = 1, v = 3$

3.  $6v + 6z = 60$   
 $6v = 24$   
 $v = 4, z = 6$

7.  $3a + 5u = 33$   
 $a = 6$   
 $a = 6, u = 3$

4.  $5u + y = 16$   
 $6u = 18$   
 $u = 3, y = 1$

8.  $6a + b = 12$   
 $4a = 4$   
 $a = 1, b = 6$

## Linear Systems (J)

Solve each system of equations.

1.  $5a + c = 22$   
 $3a = 12$

5.  $3c + u = 23$   
 $4c = 24$

2.  $6b + z = 14$   
 $6b = 12$

6.  $b + 5z = 31$   
 $2b = 12$

3.  $4x + 2z = 18$   
 $5x = 10$

7.  $5x + 3z = 38$   
 $6x = 24$

4.  $3u + 4v = 36$   
 $u = 4$

8.  $4a + 4z = 28$   
 $a = 5$

## Linear Systems (J) Answers

Solve each system of equations.

1.  $5a + c = 22$   
 $3a = 12$   
 $a = 4, c = 2$

5.  $3c + u = 23$   
 $4c = 24$   
 $c = 6, u = 5$

2.  $6b + z = 14$   
 $6b = 12$   
 $b = 2, z = 2$

6.  $b + 5z = 31$   
 $2b = 12$   
 $b = 6, z = 5$

3.  $4x + 2z = 18$   
 $5x = 10$   
 $x = 2, z = 5$

7.  $5x + 3z = 38$   
 $6x = 24$   
 $x = 4, z = 6$

4.  $3u + 4v = 36$   
 $u = 4$   
 $u = 4, v = 6$

8.  $4a + 4z = 28$   
 $a = 5$   
 $a = 5, z = 2$