Linear Systems (A)

Solve each system of equations.

1. $3u + z = 15$
   $u + 2z = 10$

2. $u + 6y = 32$
   $u + 3y = 17$

3. $3c + 4u = 33$
   $6c + 3u = 36$

4. $6u + v = 18$
   $5u + 2v = 22$

5. $2a + 2x = 18$
   $a + 3x = 17$

6. $5a + 2v = 32$
   $6a + 6v = 42$

7. $2b + v = 13$
   $b + v = 8$

8. $3a + 5u = 17$
   $2a + u = 9$

Linear Systems (A) Answers

Solve each system of equations.

1. $3u + z = 15$
   $u + 2z = 10$
   $u = 4, z = 3$

2. $u + 6y = 32$
   $u + 3y = 17$
   $u = 2, y = 5$

3. $3c + 4u = 33$
   $6c + 3u = 36$
   $c = 3, u = 6$

4. $6u + v = 18$
   $5u + 2v = 22$
   $u = 2, v = 6$

5. $2a + 2x = 18$
   $a + 3x = 17$
   $a = 5, x = 4$

6. $5a + 2v = 32$
   $6a + 6v = 42$
   $a = 6, v = 1$

7. $2b + v = 13$
   $b + v = 8$
   $b = 5, v = 3$

8. $3a + 5u = 17$
   $2a + u = 9$
   $a = 4, u = 1$

Linear Systems (B)

Solve each system of equations.

1. $5a + y = 15$
   $2a + 6y = 34$

2. $2v + 3x = 8$
   $3v + 6x = 15$

3. $u + 5x = 35$
   $4u + 2x = 32$

4. $2b + 6y = 42$
   $2b + 4y = 30$

5. $4b + 3v = 29$
   $6b + 3v = 39$

6. $2c + 6y = 16$
   $6c + y = 31$

7. $4u + 5z = 37$
   $2u + 3z = 21$

8. $2y + 5z = 13$
   $y + 6z = 10$

Linear Systems (B) Answers

Solve each system of equations.

1. $5a + y = 15$
   $2a + 6y = 34$
   $a = 2, y = 5$

2. $2v + 3x = 8$
   $3v + 6x = 15$
   $v = 1, x = 2$

3. $u + 5x = 35$
   $4u + 2x = 32$
   $u = 5, x = 6$

4. $2b + 6y = 42$
   $2b + 4y = 30$
   $b = 3, y = 6$

5. $4b + 3v = 29$
   $6b + 3v = 39$
   $b = 5, v = 3$

6. $2c + 6y = 16$
   $6c + y = 31$
   $c = 5, y = 1$

7. $4u + 5z = 37$
   $2u + 3z = 21$
   $u = 3, z = 5$

8. $2y + 5z = 13$
   $y + 6z = 10$
   $y = 4, z = 1$

Linear Systems (C)

Solve each system of equations.

1. $4b + 5v = 54$
   $6b + 6v = 72$

2. $5a + 2u = 35$
   $4a + 6u = 50$

3. $4c + 3z = 22$
   $6c + 2z = 18$

4. $4u + 4y = 20$
   $u + 6y = 10$

5. $3x + 2y = 28$
   $5x + 2y = 40$

6. $2v + 5x = 7$
   $4v + 6x = 10$

7. $3a + 5u = 21$
   $2a + 5u = 19$

8. $a + 6y = 20$
   $5a + 6y = 28$

Linear Systems (C) Answers

Solve each system of equations.

1. $4b+5v=54$
   $6b+6v=72$
   $b=6, v=6$

2. $5a+2u=35$
   $4a+6u=50$
   $a=5, u=5$

3. $4c+3z=22$
   $6c+2z=18$
   $c=1, z=6$

4. $4u+4y=20$
   $u+6y=10$
   $u=4, y=1$

5. $3x+2y=28$
   $5x+2y=40$
   $x=6, y=5$

6. $2v+5x=7$
   $4v+6x=10$
   $v=1, x=1$

7. $3a+5u=21$
   $2a+5u=19$
   $a=2, u=3$

8. $a+6y=20$
   $5a+6y=28$
   $a=2, y=3$

Linear Systems (D)

Solve each system of equations.

1. $3y + 6z = 48$
   $3y + 2z = 24$

2. $5u + 4x = 36$
   $u + 6x = 28$

3. $4u + 4z = 28$
   $4u + z = 13$

4. $x + y = 11$
   $5x + 4y = 49$

5. $5u + 6y = 55$
   $6u + 4y = 50$

6. $5u + 6z = 28$
   $2u + 4z = 16$

7. $u + 6x = 11$
   $2u + x = 11$

8. $y + 5z = 27$
   $2y + 6z = 34$

Linear Systems (D) Answers

Solve each system of equations.

1. $3y+6z=48$
   $3y+2z=24$
   $y=4, z=6$

2. $5u+4x=36$
   $u+6x=28$
   $u=4, x=4$

3. $4u+4z=28$
   $4u+z=13$
   $u=2, z=5$

4. $x+y=11$
   $5x+4y=49$
   $x=5, y=6$

5. $5u+6y=55$
   $6u+4y=50$
   $u=5, y=5$

6. $5u+6z=28$
   $2u+4z=16$
   $u=2, z=3$

7. $u+6x=11$
   $2u+x=11$
   $u=5, x=1$

8. $y+5z=27$
   $2y+6z=34$
   $y=2, z=5$

Linear Systems (E)

Solve each system of equations.

1. $4b + c = 10$
   $6b + 3c = 24$

2. $2c + 6u = 24$
   $4c + 6u = 36$

3. $2y + 3z = 18$
   $6y + 4z = 44$

4. $y + 3z = 20$
   $y + 4z = 25$

5. $2y + 3z = 19$
   $y + 6z = 32$

6. $v + 2x = 15$
   $3v + 5x = 39$

7. $6b + 5x = 40$
   $5b + 4x = 33$

8. $c + 4y = 18$
   $3c + 4y = 30$

Linear Systems (E) Answers

Solve each system of equations.

1. $4b + c = 10$
   $6b + 3c = 24$
   $b = 1, c = 6$

2. $2c + 6u = 24$
   $4c + 6u = 36$
   $c = 6, u = 2$

3. $2y + 3z = 18$
   $6y + 4z = 44$
   $y = 6, z = 2$

4. $y + 3z = 20$
   $y + 4z = 25$
   $y = 5, z = 5$

5. $2y + 3z = 19$
   $y + 6z = 32$
   $y = 2, z = 5$

6. $v + 2x = 15$
   $3v + 5x = 39$
   $v = 3, x = 6$

7. $6b + 5x = 40$
   $5b + 4x = 33$
   $b = 5, x = 2$

8. $c + 4y = 18$
   $3c + 4y = 30$
   $c = 6, y = 3$

Linear Systems (F)

Solve each system of equations.

1. $3a + z = 10$
   $3a + 5z = 14$

2. $u + 6z = 28$
   $4u + 4z = 32$

3. $2b + 2u = 8$
   $3b + 6u = 15$

4. $6a + u = 33$
   $4a + 6u = 38$

5. $5c + 2z = 23$
   $c + 5z = 23$

6. $5b + 2x = 9$
   $3b + 6x = 15$

7. $a + x = 8$
   $a + 3x = 16$

8. $u + x = 4$
   $6u + 3x = 15$

Linear Systems (F) Answers

Solve each system of equations.

1. $3a + z = 10$
   $3a + 5z = 14$
   $a = 3, z = 1$

2. $u + 6z = 28$
   $4u + 4z = 32$
   $u = 4, z = 4$

3. $2b + 2u = 8$
   $3b + 6u = 15$
   $b = 3, u = 1$

4. $6a + u = 33$
   $4a + 6u = 38$
   $a = 5, u = 3$

5. $5c + 2z = 23$
   $c + 5z = 23$
   $c = 3, z = 4$

6. $5b + 2x = 9$
   $3b + 6x = 15$
   $b = 1, x = 2$

7. $a + x = 8$
   $a + 3x = 16$
   $a = 4, x = 4$

8. $u + x = 4$
   $6u + 3x = 15$
   $u = 1, x = 3$

Linear Systems (G)

Solve each system of equations.

1. $b + 2x = 5$
   $5b + 6x = 21$

2. $6v + 3y = 36$
   $2v + 3y = 20$

3. $3a + 5c = 27$
   $6a + 6c = 42$

4. $6x + 4y = 26$
   $3x + 3y = 15$

5. $5u + v = 23$
   $u + 6v = 22$

6. $2x + 2y = 16$
   $6x + 5y = 45$

7. $3a + 2v = 17$
   $2a + 2v = 14$

8. $c + 2z = 5$
   $6c + 6z = 18$

Linear Systems (G) Answers

Solve each system of equations.

1. $b+2x=5$
   $5b+6x=21$
   $b=3, x=1$

2. $6v+3y=36$
   $2v+3y=20$
   $v=4, y=4$

3. $3a+5c=27$
   $6a+6c=42$
   $a=4, c=3$

4. $6x+4y=26$
   $3x+3y=15$
   $x=3, y=2$

5. $5u+v=23$
   $u+6v=22$
   $u=4, v=3$

6. $2x+2y=16$
   $6x+5y=45$
   $x=5, y=3$

7. $3a+2v=17$
   $2a+2v=14$
   $a=3, v=4$

8. $c+2z=5$
   $6c+6z=18$
   $c=1, z=2$

Linear Systems (H)

Solve each system of equations.

1. $2c + 5v = 9$
   $c + 4v = 6$

2. $5x + 6y = 35$
   $3x + 4y = 23$

3. $4u + 5v = 46$
   $2u + 5v = 38$

4. $2a + 5u = 23$
   $3a + u = 15$

5. $6a + 6v = 36$
   $6a + 3v = 33$

6. $6v + 4z = 30$
   $5v + 3z = 23$

7. $3a + 4b = 36$
   $4a + 5b = 46$

8. $v + 6x = 17$
   $v + x = 7$

Linear Systems (H) Answers

Solve each system of equations.

1. $2c+5v=9$
   $c+4v=6$
   $c=2, v=1$

2. $5x+6y=35$
   $3x+4y=23$
   $x=1, y=5$

3. $4u+5v=46$
   $2u+5v=38$
   $u=4, v=6$

4. $2a+5u=23$
   $3a+u=15$
   $a=4, u=3$

5. $6a+6v=36$
   $6a+3v=33$
   $a=5, v=1$

6. $6v+4z=30$
   $5v+3z=23$
   $v=1, z=6$

7. $3a+4b=36$
   $4a+5b=46$
   $a=4, b=6$

8. $v+6x=17$
   $v+x=7$
   $v=5, x=2$

Linear Systems (I)

Solve each system of equations.

1. $6y + 5z = 22$
   $y + 5z = 12$

2. $b + 6z = 35$
   $6b + 3z = 45$

3. $5b + v = 19$
   $4b + v = 16$

4. $4c + 2u = 24$
   $2c + 2u = 16$

5. $5b + 3u = 33$
   $2b + 6u = 18$

6. $5a + 4y = 19$
   $a + 5y = 8$

7. $6a + 2u = 30$
   $a + 2u = 15$

8. $4b + 2v = 26$
   $3b + 5v = 37$

Linear Systems (I) Answers

Solve each system of equations.

1. $6y+5z=22$
   $y+5z=12$
   $y=2, z=2$

2. $b+6z=35$
   $6b+3z=45$
   $b=5, z=5$

3. $5b+v=19$
   $4b+v=16$
   $b=3, v=4$

4. $4c+2u=24$
   $2c+2u=16$
   $c=4, u=4$

5. $5b+3u=33$
   $2b+6u=18$
   $b=6, u=1$

6. $5a+4y=19$
   $a+5y=8$
   $a=3, y=1$

7. $6a+2u=30$
   $a+2u=15$
   $a=3, u=6$

8. $4b+2v=26$
   $3b+5v=37$
   $b=4, v=5$

Linear Systems (J)

Solve each system of equations.

1. $6u + y = 31$
   $3u + 6y = 21$

2. $v + 4z = 21$
   $2v + 6z = 34$

3. $4b + 2y = 22$
   $4b + 6y = 34$

4. $5c + 6z = 45$
   $6c + z = 23$

5. $4a + 6u = 48$
   $5a + 6u = 51$

6. $3a + 4v = 23$
   $6a + 6v = 36$

7. $u + 3x = 14$
   $6u + 2x = 20$

8. $4b + 3y = 14$
   $4b + 5y = 18$

Linear Systems (J) Answers

Solve each system of equations.

1. $6u + y = 31$
   $3u + 6y = 21$
   $u = 5, y = 1$

2. $v + 4z = 21$
   $2v + 6z = 34$
   $v = 5, z = 4$

3. $4b + 2y = 22$
   $4b + 6y = 34$
   $b = 4, y = 3$

4. $5c + 6z = 45$
   $6c + z = 23$
   $c = 3, z = 5$

5. $4a + 6u = 48$
   $5a + 6u = 51$
   $a = 3, u = 6$

6. $3a + 4v = 23$
   $6a + 6v = 36$
   $a = 1, v = 5$

7. $u + 3x = 14$
   $6u + 2x = 20$
   $u = 2, x = 4$

8. $4b + 3y = 14$
   $4b + 5y = 18$
   $b = 2, y = 2$