

## Linear Systems (D)

Solve each system of equations.

1.  $6a + 3y + 5z = 50$   
 $5a + 3y = 26$   
 $6a = 24$

5.  $4c + 2u + y = 13$   
 $6c + 2u = 12$   
 $3c = 3$

2.  $5b + u + 4v = 35$   
 $b + 4u = 10$   
 $b = 6$

6.  $5u + 5y + 2z = 37$   
 $3u + 5y = 23$   
 $u = 6$

3.  $4a + 3x + z = 24$   
 $6a + 4x = 30$   
 $4a = 4$

7.  $6v + 3y + 2z = 33$   
 $3v + 2y = 16$   
 $5v = 10$

4.  $2b + 6u + 3v = 41$   
 $3b + 3u = 21$   
 $6b = 6$

8.  $c + 2v + 4x = 31$   
 $4c + v = 23$   
 $6c = 30$

## Linear Systems (D) Answers

Solve each system of equations.

1.  $6a + 3y + 5z = 50$   
 $5a + 3y = 26$   
 $6a = 24$   
 $a = 4, y = 2, z = 4$

5.  $4c + 2u + y = 13$   
 $6c + 2u = 12$   
 $3c = 3$   
 $c = 1, u = 3, y = 3$

2.  $5b + u + 4v = 35$   
 $b + 4u = 10$   
 $b = 6$   
 $b = 6, u = 1, v = 1$

6.  $5u + 5y + 2z = 37$   
 $3u + 5y = 23$   
 $u = 6$   
 $u = 6, y = 1, z = 1$

3.  $4a + 3x + z = 24$   
 $6a + 4x = 30$   
 $4a = 4$   
 $a = 1, x = 6, z = 2$

7.  $6v + 3y + 2z = 33$   
 $3v + 2y = 16$   
 $5v = 10$   
 $v = 2, y = 5, z = 3$

4.  $2b + 6u + 3v = 41$   
 $3b + 3u = 21$   
 $6b = 6$   
 $b = 1, u = 6, v = 1$

8.  $c + 2v + 4x = 31$   
 $4c + v = 23$   
 $6c = 30$   
 $c = 5, v = 3, x = 5$