

Linear Systems (E)

Solve each system of equations.

1. $b + 4c + u = 24$
 $5b + 6c = 54$
 $2b = 12$

5. $2c + 5v + 5x = 60$
 $4c + 3v = 32$
 $2c = 10$

2. $c + 4u + 5v = 26$
 $4c + 3u = 18$
 $3c = 9$

6. $5v + 3y + 4z = 31$
 $v + 6y = 20$
 $6v = 12$

3. $2c + 2v + 5z = 19$
 $3c + 6v = 24$
 $5c = 30$

7. $4a + 4b + 5v = 32$
 $4a + 6b = 16$
 $6a = 6$

4. $6b + 6c + 6u = 72$
 $3b + 4c = 30$
 $2b = 12$

8. $c + 2v + x = 18$
 $6c + 6v = 54$
 $2c = 8$

Linear Systems (E) Answers

Solve each system of equations.

1. $b + 4c + u = 24$
 $5b + 6c = 54$
 $2b = 12$

$b = 6, c = 4, u = 2$

5. $2c + 5v + 5x = 60$
 $4c + 3v = 32$
 $2c = 10$

$c = 5, v = 4, x = 6$

2. $c + 4u + 5v = 26$
 $4c + 3u = 18$
 $3c = 9$

$c = 3, u = 2, v = 3$

6. $5v + 3y + 4z = 31$
 $v + 6y = 20$
 $6v = 12$

$v = 2, y = 3, z = 3$

3. $2c + 2v + 5z = 19$
 $3c + 6v = 24$
 $5c = 30$

$c = 6, v = 1, z = 1$

7. $4a + 4b + 5v = 32$
 $4a + 6b = 16$
 $6a = 6$

$a = 1, b = 2, v = 4$

4. $6b + 6c + 6u = 72$
 $3b + 4c = 30$
 $2b = 12$

$b = 6, c = 3, u = 3$

8. $c + 2v + x = 18$
 $6c + 6v = 54$
 $2c = 8$

$c = 4, v = 5, x = 4$