

Linear Systems (H)

Solve each system of equations.

1. $4b + 5x + 3y = 25$
 $3b + 6x = 21$
 $b = 3$

5. $4b + 4v + 6y = 38$
 $5b + 6v = 44$
 $4b = 16$

2. $2b + 4c + 4y = 44$
 $4b + 2c = 28$
 $b = 6$

6. $4a + 5b + 6x = 52$
 $3a + 4b = 31$
 $6a = 30$

3. $3a + v + 4z = 40$
 $6a + v = 28$
 $6a = 24$

7. $2b + x + 3y = 25$
 $b + 2x = 14$
 $6b = 12$

4. $6c + 3y + 6z = 60$
 $2c + 2y = 20$
 $5c = 20$

8. $4b + 4c + 3x = 30$
 $5b + c = 14$
 $b = 2$

Linear Systems (H) Answers

Solve each system of equations.

1. $4b + 5x + 3y = 25$
 $3b + 6x = 21$
 $b = 3$
 $b = 3, x = 2, y = 1$

5. $4b + 4v + 6y = 38$
 $5b + 6v = 44$
 $4b = 16$
 $b = 4, v = 4, y = 1$

2. $2b + 4c + 4y = 44$
 $4b + 2c = 28$
 $b = 6$
 $b = 6, c = 2, y = 6$

6. $4a + 5b + 6x = 52$
 $3a + 4b = 31$
 $6a = 30$
 $a = 5, b = 4, x = 2$

3. $3a + v + 4z = 40$
 $6a + v = 28$
 $6a = 24$
 $a = 4, v = 4, z = 6$

7. $2b + x + 3y = 25$
 $b + 2x = 14$
 $6b = 12$
 $b = 2, x = 6, y = 5$

4. $6c + 3y + 6z = 60$
 $2c + 2y = 20$
 $5c = 20$
 $c = 4, y = 6, z = 3$

8. $4b + 4c + 3x = 30$
 $5b + c = 14$
 $b = 2$
 $b = 2, c = 4, x = 2$