

## Simple Linear Equations (A)

Solve for each variable.

1.  $3b + 9 = -18$

6.  $3c - 9 = -27$

11.  $-2a - 8 = -4$

2.  $3v + 1 = 22$

7.  $-3c - 4 = 2$

12.  $3z - 2 = -26$

3.  $3y - 2 = 10$

8.  $-3c + 8 = -10$

13.  $2u + 7 = 5$

4.  $2z + 1 = 15$

9.  $2c - 8 = -18$

14.  $3a - (-1) = -5$

5.  $-2b - (-7) = 11$

10.  $3a - 5 = -23$

15.  $-2u + (-1) = -13$

## Simple Linear Equations (A) Answers

Solve for each variable.

1.  $3b + 9 = -18$   
 $b = -9$

6.  $3c - 9 = -27$   
 $c = -6$

11.  $-2a - 8 = -4$   
 $a = -2$

2.  $3v + 1 = 22$   
 $v = 7$

7.  $-3c - 4 = 2$   
 $c = -2$

12.  $3z - 2 = -26$   
 $z = -8$

3.  $3y - 2 = 10$   
 $y = 4$

8.  $-3c + 8 = -10$   
 $c = 6$

13.  $2u + 7 = 5$   
 $u = -1$

4.  $2z + 1 = 15$   
 $z = 7$

9.  $2c - 8 = -18$   
 $c = -5$

14.  $3a - (-1) = -5$   
 $a = -2$

5.  $-2b - (-7) = 11$   
 $b = -2$

10.  $3a - 5 = -23$   
 $a = -6$

15.  $-2u + (-1) = -13$   
 $u = 6$

## Simple Linear Equations (B)

Solve for each variable.

1.  $2b + (-7) = -21$

6.  $2b - 4 = -18$

11.  $2x + 8 = 4$

2.  $-3y + 4 = 31$

7.  $-2a - (-9) = 23$

12.  $-3v + (-4) = 11$

3.  $-2a + 2 = -18$

8.  $-3a + 1 = 1$

13.  $2v - 10 = 0$

4.  $-2y - 6 = 6$

9.  $2v - 9 = 5$

14.  $3u + 9 = 15$

5.  $-2c + 7 = 27$

10.  $3z - (-10) = 1$

15.  $-2c - 7 = -5$

## Simple Linear Equations (B) Answers

Solve for each variable.

1.  $2b + (-7) = -21$   
 $b = -7$

6.  $2b - 4 = -18$   
 $b = -7$

11.  $2x + 8 = 4$   
 $x = -2$

2.  $-3y + 4 = 31$   
 $y = -9$

7.  $-2a - (-9) = 23$   
 $a = -7$

12.  $-3v + (-4) = 11$   
 $v = -5$

3.  $-2a + 2 = -18$   
 $a = 10$

8.  $-3a + 1 = 1$   
 $a = 0$

13.  $2v - 10 = 0$   
 $v = 5$

4.  $-2y - 6 = 6$   
 $y = -6$

9.  $2v - 9 = 5$   
 $v = 7$

14.  $3u + 9 = 15$   
 $u = 2$

5.  $-2c + 7 = 27$   
 $c = -10$

10.  $3z - (-10) = 1$   
 $z = -3$

15.  $-2c - 7 = -5$   
 $c = -1$

## Simple Linear Equations (C)

Solve for each variable.

1.  $-3u + (-6) = 21$

6.  $2c - (-7) = 13$

11.  $-2u - 2 = 14$

2.  $3c + (-2) = -20$

7.  $2v - (-3) = 13$

12.  $-3y + (-6) = -27$

3.  $2c - 8 = -18$

8.  $2v - (-8) = 20$

13.  $2y - 9 = -19$

4.  $-3x - (-5) = 32$

9.  $-3u - 2 = 13$

14.  $-2z - 1 = 9$

5.  $2x - 4 = -18$

10.  $-3y + 2 = 26$

15.  $-3z + 1 = -26$

## Simple Linear Equations (C) Answers

Solve for each variable.

1.  $-3u + (-6) = 21$   
 $u = -9$

6.  $2c - (-7) = 13$   
 $c = 3$

11.  $-2u - 2 = 14$   
 $u = -8$

2.  $3c + (-2) = -20$   
 $c = -6$

7.  $2v - (-3) = 13$   
 $v = 5$

12.  $-3y + (-6) = -27$   
 $y = 7$

3.  $2c - 8 = -18$   
 $c = -5$

8.  $2v - (-8) = 20$   
 $v = 6$

13.  $2y - 9 = -19$   
 $y = -5$

4.  $-3x - (-5) = 32$   
 $x = -9$

9.  $-3u - 2 = 13$   
 $u = -5$

14.  $-2z - 1 = 9$   
 $z = -5$

5.  $2x - 4 = -18$   
 $x = -7$

10.  $-3y + 2 = 26$   
 $y = -8$

15.  $-3z + 1 = -26$   
 $z = 9$

## Simple Linear Equations (D)

Solve for each variable.

1.  $-2c + 1 = 15$

6.  $2z + 10 = 6$

11.  $-3c - 4 = -7$

2.  $3c - 9 = -15$

7.  $2a - (-8) = 18$

12.  $-2v + 9 = 27$

3.  $3a - (-4) = 7$

8.  $3c - 3 = 27$

13.  $2a - 5 = -3$

4.  $-2u + 8 = 4$

9.  $-2a - 3 = -15$

14.  $3b + (-7) = 14$

5.  $3x - (-7) = 25$

10.  $-3c + (-7) = 17$

15.  $2a + 1 = 3$

## Simple Linear Equations (D) Answers

Solve for each variable.

1.  $-2c + 1 = 15$   
 $c = -7$

6.  $2z + 10 = 6$   
 $z = -2$

11.  $-3c - 4 = -7$   
 $c = 1$

2.  $3c - 9 = -15$   
 $c = -2$

7.  $2a - (-8) = 18$   
 $a = 5$

12.  $-2v + 9 = 27$   
 $v = -9$

3.  $3a - (-4) = 7$   
 $a = 1$

8.  $3c - 3 = 27$   
 $c = 10$

13.  $2a - 5 = -3$   
 $a = 1$

4.  $-2u + 8 = 4$   
 $u = 2$

9.  $-2a - 3 = -15$   
 $a = 6$

14.  $3b + (-7) = 14$   
 $b = 7$

5.  $3x - (-7) = 25$   
 $x = 6$

10.  $-3c + (-7) = 17$   
 $c = -8$

15.  $2a + 1 = 3$   
 $a = 1$

## Simple Linear Equations (E)

Solve for each variable.

1.  $-3z + (-8) = 1$

6.  $2v - 10 = -2$

11.  $-2a - (-4) = 10$

2.  $2v - 7 = 11$

7.  $2u + (-8) = -24$

12.  $-3u - 4 = -19$

3.  $-3a - (-3) = -3$

8.  $2c + 7 = 13$

13.  $3u - (-10) = -2$

4.  $2y - 7 = -1$

9.  $3z + 8 = -7$

14.  $-2u + 1 = 7$

5.  $-2y - (-9) = 9$

10.  $2x - (-4) = 0$

15.  $2a + 9 = 11$

## Simple Linear Equations (E) Answers

Solve for each variable.

1.  $-3z + (-8) = 1$   
 $z = -3$

6.  $2v - 10 = -2$   
 $v = 4$

11.  $-2a - (-4) = 10$   
 $a = -3$

2.  $2v - 7 = 11$   
 $v = 9$

7.  $2u + (-8) = -24$   
 $u = -8$

12.  $-3u - 4 = -19$   
 $u = 5$

3.  $-3a - (-3) = -3$   
 $a = 2$

8.  $2c + 7 = 13$   
 $c = 3$

13.  $3u - (-10) = -2$   
 $u = -4$

4.  $2y - 7 = -1$   
 $y = 3$

9.  $3z + 8 = -7$   
 $z = -5$

14.  $-2u + 1 = 7$   
 $u = -3$

5.  $-2y - (-9) = 9$   
 $y = 0$

10.  $2x - (-4) = 0$   
 $x = -2$

15.  $2a + 9 = 11$   
 $a = 1$

## Simple Linear Equations (F)

Solve for each variable.

1.  $-2v + 4 = 24$

6.  $3a + 5 = 35$

11.  $3z - (-3) = -21$

2.  $3c + 1 = -26$

7.  $2u - (-4) = 2$

12.  $2x - 5 = -19$

3.  $2y + 6 = 16$

8.  $-3x - 6 = -30$

13.  $2y - (-5) = 11$

4.  $-2v + 9 = 3$

9.  $-2a + 8 = 26$

14.  $-3b - 7 = -7$

5.  $-3a + 1 = -26$

10.  $-2x - (-7) = 5$

15.  $2v + 1 = -1$

## Simple Linear Equations (F) Answers

Solve for each variable.

1.  $-2v + 4 = 24$   
 $v = -10$

6.  $3a + 5 = 35$   
 $a = 10$

11.  $3z - (-3) = -21$   
 $z = -8$

2.  $3c + 1 = -26$   
 $c = -9$

7.  $2u - (-4) = 2$   
 $u = -1$

12.  $2x - 5 = -19$   
 $x = -7$

3.  $2y + 6 = 16$   
 $y = 5$

8.  $-3x - 6 = -30$   
 $x = 8$

13.  $2y - (-5) = 11$   
 $y = 3$

4.  $-2v + 9 = 3$   
 $v = 3$

9.  $-2a + 8 = 26$   
 $a = -9$

14.  $-3b - 7 = -7$   
 $b = 0$

5.  $-3a + 1 = -26$   
 $a = 9$

10.  $-2x - (-7) = 5$   
 $x = 1$

15.  $2v + 1 = -1$   
 $v = -1$

## Simple Linear Equations (G)

Solve for each variable.

1.  $2c + 10 = -10$

6.  $-2z - 8 = -6$

11.  $3y - 4 = -19$

2.  $-2u - 1 = 9$

7.  $3z - (-5) = -10$

12.  $2a + (-8) = -2$

3.  $-3b + 2 = -1$

8.  $-3z + (-8) = 13$

13.  $3a + 6 = 24$

4.  $3b + (-7) = 14$

9.  $-2x - (-3) = 17$

14.  $2v + 7 = 19$

5.  $3z - 9 = -15$

10.  $2z - (-10) = 8$

15.  $-3a + 3 = -21$

## Simple Linear Equations (G) Answers

Solve for each variable.

1.  $2c + 10 = -10$   
 $c = -10$

6.  $-2z - 8 = -6$   
 $z = -1$

11.  $3y - 4 = -19$   
 $y = -5$

2.  $-2u - 1 = 9$   
 $u = -5$

7.  $3z - (-5) = -10$   
 $z = -5$

12.  $2a + (-8) = -2$   
 $a = 3$

3.  $-3b + 2 = -1$   
 $b = 1$

8.  $-3z + (-8) = 13$   
 $z = -7$

13.  $3a + 6 = 24$   
 $a = 6$

4.  $3b + (-7) = 14$   
 $b = 7$

9.  $-2x - (-3) = 17$   
 $x = -7$

14.  $2v + 7 = 19$   
 $v = 6$

5.  $3z - 9 = -15$   
 $z = -2$

10.  $2z - (-10) = 8$   
 $z = -1$

15.  $-3a + 3 = -21$   
 $a = 8$

## Simple Linear Equations (H)

Solve for each variable.

1.  $2c - 3 = -15$

6.  $2v + (-3) = 7$

11.  $2v - (-10) = 4$

2.  $-3z + 2 = 5$

7.  $2c + (-10) = -6$

12.  $3z - 2 = -17$

3.  $-2v - 7 = -23$

8.  $2v - (-8) = 18$

13.  $-3c + 7 = 37$

4.  $2x + 3 = 1$

9.  $3x + (-4) = -1$

14.  $-2c + 4 = 18$

5.  $3b + (-9) = -24$

10.  $2z + 1 = 7$

15.  $2v + 7 = 19$

## Simple Linear Equations (H) Answers

Solve for each variable.

1.  $2c - 3 = -15$   
 $c = -6$

6.  $2v + (-3) = 7$   
 $v = 5$

11.  $2v - (-10) = 4$   
 $v = -3$

2.  $-3z + 2 = 5$   
 $z = -1$

7.  $2c + (-10) = -6$   
 $c = 2$

12.  $3z - 2 = -17$   
 $z = -5$

3.  $-2v - 7 = -23$   
 $v = 8$

8.  $2v - (-8) = 18$   
 $v = 5$

13.  $-3c + 7 = 37$   
 $c = -10$

4.  $2x + 3 = 1$   
 $x = -1$

9.  $3x + (-4) = -1$   
 $x = 1$

14.  $-2c + 4 = 18$   
 $c = -7$

5.  $3b + (-9) = -24$   
 $b = -5$

10.  $2z + 1 = 7$   
 $z = 3$

15.  $2v + 7 = 19$   
 $v = 6$

## Simple Linear Equations (I)

Solve for each variable.

1.  $2c - 10 = 6$

6.  $-3a + 6 = 27$

11.  $-3c + 8 = -4$

2.  $3x - 7 = -19$

7.  $3b + (-4) = 14$

12.  $-3x - 2 = 1$

3.  $-2c - (-6) = 16$

8.  $-3c + 3 = 15$

13.  $2z + 2 = -10$

4.  $-2a + (-8) = -4$

9.  $-2z + 8 = 14$

14.  $2v - 7 = -5$

5.  $3z - 9 = 9$

10.  $3c - 4 = 23$

15.  $3v - (-1) = 13$

## Simple Linear Equations (I) Answers

Solve for each variable.

1.  $2c - 10 = 6$   
 $c = 8$

6.  $-3a + 6 = 27$   
 $a = -7$

11.  $-3c + 8 = -4$   
 $c = 4$

2.  $3x - 7 = -19$   
 $x = -4$

7.  $3b + (-4) = 14$   
 $b = 6$

12.  $-3x - 2 = 1$   
 $x = -1$

3.  $-2c - (-6) = 16$   
 $c = -5$

8.  $-3c + 3 = 15$   
 $c = -4$

13.  $2z + 2 = -10$   
 $z = -6$

4.  $-2a + (-8) = -4$   
 $a = -2$

9.  $-2z + 8 = 14$   
 $z = -3$

14.  $2v - 7 = -5$   
 $v = 1$

5.  $3z - 9 = 9$   
 $z = 6$

10.  $3c - 4 = 23$   
 $c = 9$

15.  $3v - (-1) = 13$   
 $v = 4$

## Simple Linear Equations (J)

Solve for each variable.

1.  $3c - 7 = 5$

6.  $-2c - (-2) = -2$

11.  $2u - (-9) = 15$

2.  $3z + (-4) = -1$

7.  $3x - 2 = -26$

12.  $2b - 5 = 7$

3.  $2v + (-9) = -17$

8.  $-2z - (-9) = 13$

13.  $3y - 5 = -32$

4.  $2b - 2 = -22$

9.  $-2b + (-8) = -4$

14.  $-2b + (-7) = -7$

5.  $3z + 6 = 21$

10.  $2y + 1 = 13$

15.  $3v - (-6) = 6$

## Simple Linear Equations (J) Answers

Solve for each variable.

$$1. \begin{aligned} 3c - 7 &= 5 \\ c &= 4 \end{aligned}$$

$$6. \begin{aligned} -2c - (-2) &= -2 \\ c &= 2 \end{aligned}$$

$$11. \begin{aligned} 2u - (-9) &= 15 \\ u &= 3 \end{aligned}$$

$$2. \begin{aligned} 3z + (-4) &= -1 \\ z &= 1 \end{aligned}$$

$$7. \begin{aligned} 3x - 2 &= -26 \\ x &= -8 \end{aligned}$$

$$12. \begin{aligned} 2b - 5 &= 7 \\ b &= 6 \end{aligned}$$

$$3. \begin{aligned} 2v + (-9) &= -17 \\ v &= -4 \end{aligned}$$

$$8. \begin{aligned} -2z - (-9) &= 13 \\ z &= -2 \end{aligned}$$

$$13. \begin{aligned} 3y - 5 &= -32 \\ y &= -9 \end{aligned}$$

$$4. \begin{aligned} 2b - 2 &= -22 \\ b &= -10 \end{aligned}$$

$$9. \begin{aligned} -2b + (-8) &= -4 \\ b &= -2 \end{aligned}$$

$$14. \begin{aligned} -2b + (-7) &= -7 \\ b &= 0 \end{aligned}$$

$$5. \begin{aligned} 3z + 6 &= 21 \\ z &= 5 \end{aligned}$$

$$10. \begin{aligned} 2y + 1 &= 13 \\ y &= 6 \end{aligned}$$

$$15. \begin{aligned} 3v - (-6) &= 6 \\ v &= 0 \end{aligned}$$