

## Simple Linear Equations (A)

Solve for each variable.

1.  $-3 + \frac{y}{5} = -12$

6.  $1 + \frac{y}{-3} = 9$

11.  $\frac{x}{3} + (-4) = -1$

2.  $\frac{c}{-2} + (-4) = -1$

7.  $\frac{a}{-8} - 3 = 2$

12.  $-2 + \frac{z}{-5} = 3$

3.  $\frac{z}{6} + 10 = 14$

8.  $\frac{u}{3} + 8 = 6$

13.  $\frac{a}{6} - (-8) = 12$

4.  $-7 - \frac{u}{5} = -2$

9.  $-5 - \frac{u}{6} = -14$

14.  $-5 - \frac{a}{7} = -14$

5.  $\frac{v}{7} - (-1) = -7$

10.  $9 + \frac{u}{9} = 15$

15.  $\frac{v}{3} + 9 = 0$

## Simple Linear Equations (A) Answers

Solve for each variable.

$$1. -3 + \frac{y}{5} = -12$$
$$y = -45$$

$$6. 1 + \frac{y}{-3} = 9$$
$$y = -24$$

$$11. \frac{x}{3} + (-4) = -1$$
$$x = 9$$

$$2. \frac{c}{-2} + (-4) = -1$$
$$c = -6$$

$$7. \frac{a}{-8} - 3 = 2$$
$$a = -40$$

$$12. -2 + \frac{z}{-5} = 3$$
$$z = -25$$

$$3. \frac{z}{6} + 10 = 14$$
$$z = 24$$

$$8. \frac{u}{3} + 8 = 6$$
$$u = -6$$

$$13. \frac{a}{6} - (-8) = 12$$
$$a = 24$$

$$4. -7 - \frac{u}{5} = -2$$
$$u = -25$$

$$9. -5 - \frac{u}{6} = -14$$
$$u = 54$$

$$14. -5 - \frac{a}{7} = -14$$
$$a = 63$$

$$5. \frac{v}{7} - (-1) = -7$$
$$v = -56$$

$$10. 9 + \frac{u}{9} = 15$$
$$u = 54$$

$$15. \frac{v}{3} + 9 = 0$$
$$v = -27$$

## Simple Linear Equations (B)

Solve for each variable.

1.  $\frac{u}{-5} - 8 = -1$

6.  $\frac{c}{9} - 2 = -9$

11.  $9 + \frac{z}{8} = 14$

2.  $3 + \frac{v}{3} = -1$

7.  $-6 + \frac{v}{9} = 0$

12.  $-1 + \frac{y}{8} = 6$

3.  $9 + \frac{x}{2} = 18$

8.  $8 - \frac{b}{-8} = 13$

13.  $\frac{x}{3} + 5 = -2$

4.  $2 - \frac{c}{3} = 6$

9.  $-8 + \frac{v}{5} = -1$

14.  $\frac{u}{7} - 2 = 3$

5.  $-10 + \frac{y}{2} = -7$

10.  $-1 - \frac{c}{-6} = -5$

15.  $\frac{v}{-3} + 4 = -2$

## Simple Linear Equations (B) Answers

Solve for each variable.

$$1. \frac{u}{-5} - 8 = -1$$
$$u = -35$$

$$6. \frac{c}{9} - 2 = -9$$
$$c = -63$$

$$11. 9 + \frac{z}{8} = 14$$
$$z = 40$$

$$2. 3 + \frac{v}{3} = -1$$
$$v = -12$$

$$7. -6 + \frac{v}{9} = 0$$
$$v = 54$$

$$12. -1 + \frac{y}{8} = 6$$
$$y = 56$$

$$3. 9 + \frac{x}{2} = 18$$
$$x = 18$$

$$8. 8 - \frac{b}{-8} = 13$$
$$b = 40$$

$$13. \frac{x}{3} + 5 = -2$$
$$x = -21$$

$$4. 2 - \frac{c}{3} = 6$$
$$c = -12$$

$$9. -8 + \frac{v}{5} = -1$$
$$v = 35$$

$$14. \frac{u}{7} - 2 = 3$$
$$u = 35$$

$$5. -10 + \frac{y}{2} = -7$$
$$y = 6$$

$$10. -1 - \frac{c}{-6} = -5$$
$$c = -24$$

$$15. \frac{v}{-3} + 4 = -2$$
$$v = 18$$

## Simple Linear Equations (C)

Solve for each variable.

1.  $8 - \frac{x}{3} = 15$

6.  $-7 - \frac{z}{-6} = -11$

11.  $\frac{u}{2} - 4 = -13$

2.  $1 - \frac{y}{-4} = 4$

7.  $\frac{c}{3} + 10 = 6$

12.  $2 + \frac{x}{-6} = 10$

3.  $6 + \frac{b}{-5} = 11$

8.  $-8 + \frac{a}{6} = -13$

13.  $\frac{a}{4} - (-4) = 13$

4.  $\frac{x}{3} + 4 = -2$

9.  $\frac{v}{-5} + (-2) = -4$

14.  $\frac{x}{9} - 6 = -1$

5.  $\frac{u}{-9} + 8 = 17$

10.  $1 - \frac{b}{-9} = -1$

15.  $2 + \frac{a}{-2} = 11$

## Simple Linear Equations (C) Answers

Solve for each variable.

$$1. 8 - \frac{x}{3} = 15$$
$$x = -21$$

$$6. -7 - \frac{z}{-6} = -11$$
$$z = -24$$

$$11. \frac{u}{2} - 4 = -13$$
$$u = -18$$

$$2. 1 - \frac{y}{-4} = 4$$
$$y = 12$$

$$7. \frac{c}{3} + 10 = 6$$
$$c = -12$$

$$12. 2 + \frac{x}{-6} = 10$$
$$x = -48$$

$$3. 6 + \frac{b}{-5} = 11$$
$$b = -25$$

$$8. -8 + \frac{a}{6} = -13$$
$$a = -30$$

$$13. \frac{a}{4} - (-4) = 13$$
$$a = 36$$

$$4. \frac{x}{3} + 4 = -2$$
$$x = -18$$

$$9. \frac{v}{-5} + (-2) = -4$$
$$v = 10$$

$$14. \frac{x}{9} - 6 = -1$$
$$x = 45$$

$$5. \frac{u}{-9} + 8 = 17$$
$$u = -81$$

$$10. 1 - \frac{b}{-9} = -1$$
$$b = -18$$

$$15. 2 + \frac{a}{-2} = 11$$
$$a = -18$$

## Simple Linear Equations (D)

Solve for each variable.

1.  $\frac{v}{5} - (-5) = 13$

6.  $\frac{y}{6} + 5 = 13$

11.  $6 - \frac{u}{-9} = 4$

2.  $1 - \frac{v}{6} = 10$

7.  $-1 + \frac{c}{-6} = 1$

12.  $\frac{y}{5} + (-5) = 1$

3.  $4 + \frac{c}{7} = 6$

8.  $1 - \frac{b}{-6} = -6$

13.  $-1 - \frac{u}{-5} = 2$

4.  $-4 - \frac{b}{6} = -12$

9.  $8 + \frac{v}{2} = 17$

14.  $4 + \frac{y}{-8} = -4$

5.  $\frac{c}{-2} - 1 = -3$

10.  $\frac{y}{6} - 3 = 6$

15.  $\frac{x}{-3} + (-9) = 0$

## Simple Linear Equations (D) Answers

Solve for each variable.

$$1. \frac{v}{5} - (-5) = 13$$

$v = 40$

$$6. \frac{y}{6} + 5 = 13$$

$y = 48$

$$11. 6 - \frac{u}{-9} = 4$$

$u = -18$

$$2. 1 - \frac{v}{6} = 10$$

$v = -54$

$$7. -1 + \frac{c}{-6} = 1$$

$c = -12$

$$12. \frac{y}{5} + (-5) = 1$$

$y = 30$

$$3. 4 + \frac{c}{7} = 6$$

$c = 14$

$$8. 1 - \frac{b}{-6} = -6$$

$b = -42$

$$13. -1 - \frac{u}{-5} = 2$$

$u = 15$

$$4. -4 - \frac{b}{6} = -12$$

$b = 48$

$$9. 8 + \frac{v}{2} = 17$$

$v = 18$

$$14. 4 + \frac{y}{-8} = -4$$

$y = 64$

$$5. \frac{c}{-2} - 1 = -3$$

$c = 4$

$$10. \frac{y}{6} - 3 = 6$$

$y = 54$

$$15. \frac{x}{-3} + (-9) = 0$$

$x = -27$

## Simple Linear Equations (E)

Solve for each variable.

1.  $4 + \frac{x}{9} = -2$

6.  $-8 - \frac{v}{2} = -13$

11.  $\frac{a}{9} - (-5) = 0$

2.  $6 - \frac{z}{9} = 2$

7.  $\frac{y}{4} - 8 = -17$

12.  $\frac{z}{9} + 6 = 10$

3.  $8 - \frac{b}{7} = 2$

8.  $\frac{x}{-8} + 1 = 5$

13.  $\frac{v}{-6} - 3 = 1$

4.  $1 - \frac{b}{7} = -5$

9.  $-5 + \frac{c}{-9} = -11$

14.  $2 - \frac{u}{9} = -5$

5.  $-9 + \frac{c}{7} = -5$

10.  $\frac{u}{4} + (-4) = 0$

15.  $-5 + \frac{y}{8} = 2$

## Simple Linear Equations (E) Answers

Solve for each variable.

$$1. 4 + \frac{x}{9} = -2$$
$$x = -54$$

$$6. -8 - \frac{v}{2} = -13$$
$$v = 10$$

$$11. \frac{a}{9} - (-5) = 0$$
$$a = -45$$

$$2. 6 - \frac{z}{9} = 2$$
$$z = 36$$

$$7. \frac{y}{4} - 8 = -17$$
$$y = -36$$

$$12. \frac{z}{9} + 6 = 10$$
$$z = 36$$

$$3. 8 - \frac{b}{7} = 2$$
$$b = 42$$

$$8. \frac{x}{-8} + 1 = 5$$
$$x = -32$$

$$13. \frac{v}{-6} - 3 = 1$$
$$v = -24$$

$$4. 1 - \frac{b}{7} = -5$$
$$b = 42$$

$$9. -5 + \frac{c}{-9} = -11$$
$$c = 54$$

$$14. 2 - \frac{u}{9} = -5$$
$$u = 63$$

$$5. -9 + \frac{c}{7} = -5$$
$$c = 28$$

$$10. \frac{u}{4} + (-4) = 0$$
$$u = 16$$

$$15. -5 + \frac{y}{8} = 2$$
$$y = 56$$

## Simple Linear Equations (F)

Solve for each variable.

1.  $1 - \frac{z}{2} = -8$

6.  $2 - \frac{z}{-7} = -2$

11.  $\frac{z}{6} + (-1) = 5$

2.  $\frac{v}{-2} - (-5) = 11$

7.  $5 + \frac{y}{-8} = 12$

12.  $\frac{b}{-3} + 9 = 2$

3.  $\frac{u}{6} - 2 = -5$

8.  $8 + \frac{c}{4} = 12$

13.  $\frac{b}{5} - 7 = -9$

4.  $\frac{y}{7} - (-2) = -1$

9.  $3 + \frac{z}{5} = 6$

14.  $\frac{a}{4} + 7 = 3$

5.  $1 + \frac{a}{-7} = 7$

10.  $6 + \frac{z}{4} = 4$

15.  $3 - \frac{y}{-3} = -6$

## Simple Linear Equations (F) Answers

Solve for each variable.

$$1. 1 - \frac{z}{2} = -8$$
$$z = 18$$

$$6. 2 - \frac{z}{-7} = -2$$
$$z = -28$$

$$11. \frac{z}{6} + (-1) = 5$$
$$z = 36$$

$$2. \frac{v}{-2} - (-5) = 11$$
$$v = -12$$

$$7. 5 + \frac{y}{-8} = 12$$
$$y = -56$$

$$12. \frac{b}{-3} + 9 = 2$$
$$b = 21$$

$$3. \frac{u}{6} - 2 = -5$$
$$u = -18$$

$$8. 8 + \frac{c}{4} = 12$$
$$c = 16$$

$$13. \frac{b}{5} - 7 = -9$$
$$b = -10$$

$$4. \frac{y}{7} - (-2) = -1$$
$$y = -21$$

$$9. 3 + \frac{z}{5} = 6$$
$$z = 15$$

$$14. \frac{a}{4} + 7 = 3$$
$$a = -16$$

$$5. 1 + \frac{a}{-7} = 7$$
$$a = -42$$

$$10. 6 + \frac{z}{4} = 4$$
$$z = -8$$

$$15. 3 - \frac{y}{-3} = -6$$
$$y = -27$$

## Simple Linear Equations (G)

Solve for each variable.

1.  $-2 + \frac{x}{4} = 1$

6.  $\frac{a}{9} - 1 = -8$

11.  $\frac{x}{-9} + (-6) = -9$

2.  $\frac{u}{6} + (-1) = 2$

7.  $\frac{b}{6} + 4 = 13$

12.  $\frac{a}{-9} + (-6) = 3$

3.  $\frac{x}{4} - (-10) = 17$

8.  $6 - \frac{b}{-8} = 10$

13.  $3 - \frac{c}{-8} = 1$

4.  $\frac{z}{9} + 6 = 12$

9.  $\frac{v}{7} - 10 = -13$

14.  $\frac{x}{4} + 10 = 15$

5.  $\frac{b}{-8} + 3 = 9$

10.  $5 + \frac{a}{-2} = 2$

15.  $-7 + \frac{c}{7} = -5$

## Simple Linear Equations (G) Answers

Solve for each variable.

$$1. -2 + \frac{x}{4} = 1$$
$$x = 12$$

$$6. \frac{a}{9} - 1 = -8$$
$$a = -63$$

$$11. \frac{x}{-9} + (-6) = -9$$
$$x = 27$$

$$2. \frac{u}{6} + (-1) = 2$$
$$u = 18$$

$$7. \frac{b}{6} + 4 = 13$$
$$b = 54$$

$$12. \frac{a}{-9} + (-6) = 3$$
$$a = -81$$

$$3. \frac{x}{4} - (-10) = 17$$
$$x = 28$$

$$8. 6 - \frac{b}{-8} = 10$$
$$b = 32$$

$$13. 3 - \frac{c}{-8} = 1$$
$$c = -16$$

$$4. \frac{z}{9} + 6 = 12$$
$$z = 54$$

$$9. \frac{v}{7} - 10 = -13$$
$$v = -21$$

$$14. \frac{x}{4} + 10 = 15$$
$$x = 20$$

$$5. \frac{b}{-8} + 3 = 9$$
$$b = -48$$

$$10. 5 + \frac{a}{-2} = 2$$
$$a = 6$$

$$15. -7 + \frac{c}{7} = -5$$
$$c = 14$$

## Simple Linear Equations (H)

Solve for each variable.

1.  $\frac{v}{2} - 9 = -12$

6.  $\frac{a}{6} + 10 = 5$

11.  $\frac{y}{-7} - (-3) = 11$

2.  $6 - \frac{v}{-9} = -3$

7.  $-1 - \frac{x}{2} = 2$

12.  $\frac{b}{8} - 4 = 3$

3.  $\frac{v}{2} + (-9) = 0$

8.  $\frac{v}{4} - (-9) = 15$

13.  $\frac{y}{-4} - (-1) = -8$

4.  $1 - \frac{a}{5} = -3$

9.  $-2 + \frac{x}{6} = 6$

14.  $\frac{a}{5} - (-5) = 2$

5.  $-2 + \frac{x}{6} = -5$

10.  $-1 + \frac{y}{3} = 3$

15.  $-3 + \frac{y}{-6} = -7$

## Simple Linear Equations (H) Answers

Solve for each variable.

$$1. \frac{v}{2} - 9 = -12$$
$$v = -6$$

$$6. \frac{a}{6} + 10 = 5$$
$$a = -30$$

$$11. \frac{y}{-7} - (-3) = 11$$
$$y = -56$$

$$2. 6 - \frac{v}{-9} = -3$$
$$v = -81$$

$$7. -1 - \frac{x}{2} = 2$$
$$x = -6$$

$$12. \frac{b}{8} - 4 = 3$$
$$b = 56$$

$$3. \frac{v}{2} + (-9) = 0$$
$$v = 18$$

$$8. \frac{v}{4} - (-9) = 15$$
$$v = 24$$

$$13. \frac{y}{-4} - (-1) = -8$$
$$y = 36$$

$$4. 1 - \frac{a}{5} = -3$$
$$a = 20$$

$$9. -2 + \frac{x}{6} = 6$$
$$x = 48$$

$$14. \frac{a}{5} - (-5) = 2$$
$$a = -15$$

$$5. -2 + \frac{x}{6} = -5$$
$$x = -18$$

$$10. -1 + \frac{y}{3} = 3$$
$$y = 12$$

$$15. -3 + \frac{y}{-6} = -7$$
$$y = 24$$

## Simple Linear Equations (I)

Solve for each variable.

1.  $-5 - \frac{y}{6} = 4$

6.  $7 + \frac{b}{-5} = 10$

11.  $\frac{b}{2} + (-2) = 6$

2.  $\frac{a}{-8} + 7 = 12$

7.  $\frac{b}{8} - (-4) = -2$

12.  $7 + \frac{x}{-8} = -1$

3.  $-6 + \frac{u}{-8} = 1$

8.  $\frac{x}{7} + 7 = 13$

13.  $-8 + \frac{u}{-5} = -5$

4.  $-2 - \frac{a}{3} = -11$

9.  $\frac{a}{9} - 10 = -3$

14.  $\frac{b}{8} + 10 = 15$

5.  $-1 + \frac{c}{-6} = 7$

10.  $1 - \frac{z}{-3} = 3$

15.  $\frac{v}{5} + 10 = 12$

## Simple Linear Equations (I) Answers

Solve for each variable.

$$1. -5 - \frac{y}{6} = 4$$
$$y = -54$$

$$6. 7 + \frac{b}{-5} = 10$$
$$b = -15$$

$$11. \frac{b}{2} + (-2) = 6$$
$$b = 16$$

$$2. \frac{a}{-8} + 7 = 12$$
$$a = -40$$

$$7. \frac{b}{8} - (-4) = -2$$
$$b = -48$$

$$12. 7 + \frac{x}{-8} = -1$$
$$x = 64$$

$$3. -6 + \frac{u}{-8} = 1$$
$$u = -56$$

$$8. \frac{x}{7} + 7 = 13$$
$$x = 42$$

$$13. -8 + \frac{u}{-5} = -5$$
$$u = -15$$

$$4. -2 - \frac{a}{3} = -11$$
$$a = 27$$

$$9. \frac{a}{9} - 10 = -3$$
$$a = 63$$

$$14. \frac{b}{8} + 10 = 15$$
$$b = 40$$

$$5. -1 + \frac{c}{-6} = 7$$
$$c = -48$$

$$10. 1 - \frac{z}{-3} = 3$$
$$z = 6$$

$$15. \frac{v}{5} + 10 = 12$$
$$v = 10$$

## Simple Linear Equations (J)

Solve for each variable.

1.  $\frac{a}{-7} + (-8) = -3$

6.  $10 - \frac{a}{6} = 18$

11.  $3 + \frac{c}{5} = 11$

2.  $1 + \frac{y}{3} = -1$

7.  $\frac{x}{-2} - 10 = -2$

12.  $-7 - \frac{u}{4} = -14$

3.  $\frac{b}{9} - 3 = 1$

8.  $\frac{y}{-9} + 1 = -2$

13.  $2 - \frac{x}{4} = 11$

4.  $-10 + \frac{a}{7} = -12$

9.  $8 + \frac{b}{-2} = 13$

14.  $8 + \frac{c}{5} = 12$

5.  $5 + \frac{a}{4} = 13$

10.  $-3 + \frac{v}{2} = 5$

15.  $10 - \frac{x}{-7} = 2$

## Simple Linear Equations (J) Answers

Solve for each variable.

$$1. \frac{a}{-7} + (-8) = -3$$
$$a = -35$$

$$6. 10 - \frac{a}{6} = 18$$
$$a = -48$$

$$11. 3 + \frac{c}{5} = 11$$
$$c = 40$$

$$2. 1 + \frac{y}{3} = -1$$
$$y = -6$$

$$7. \frac{x}{-2} - 10 = -2$$
$$x = -16$$

$$12. -7 - \frac{u}{4} = -14$$
$$u = 28$$

$$3. \frac{b}{9} - 3 = 1$$
$$b = 36$$

$$8. \frac{y}{-9} + 1 = -2$$
$$y = 27$$

$$13. 2 - \frac{x}{4} = 11$$
$$x = -36$$

$$4. -10 + \frac{a}{7} = -12$$
$$a = -14$$

$$9. 8 + \frac{b}{-2} = 13$$
$$b = -10$$

$$14. 8 + \frac{c}{5} = 12$$
$$c = 20$$

$$5. 5 + \frac{a}{4} = 13$$
$$a = 32$$

$$10. -3 + \frac{v}{2} = 5$$
$$v = 16$$

$$15. 10 - \frac{x}{-7} = 2$$
$$x = -56$$