

## Simple Linear Equations (A)

Solve for each variable.

1.  $\frac{63}{y} + 1 = 8$

6.  $10 + \frac{36}{z} = 14$

11.  $\frac{40}{z} - 7 = 1$

2.  $\frac{18}{u} + 5 = 8$

7.  $\frac{49}{b} - 5 = 2$

12.  $8 + \frac{40}{x} = 13$

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

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

13.  $3 + \frac{18}{b} = 6$

4.  $\frac{56}{c} + 6 = 13$

9.  $7 + \frac{20}{x} = 11$

14.  $\frac{7}{z} - 3 = 4$

5.  $\frac{12}{x} - 4 = 0$

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

15.  $\frac{20}{b} + 2 = 7$

## Simple Linear Equations (A) Answers

Solve for each variable.

$$1. \frac{63}{y} + 1 = 8$$
$$y = 9$$

$$6. 10 + \frac{36}{z} = 14$$
$$z = 9$$

$$11. \frac{40}{z} - 7 = 1$$
$$z = 5$$

$$2. \frac{18}{u} + 5 = 8$$
$$u = 6$$

$$7. \frac{49}{b} - 5 = 2$$
$$b = 7$$

$$12. 8 + \frac{40}{x} = 13$$
$$x = 8$$

$$3. \frac{10}{a} + 7 = 12$$
$$a = 2$$

$$8. \frac{4}{y} - 2 = 2$$
$$y = 1$$

$$13. 3 + \frac{18}{b} = 6$$
$$b = 6$$

$$4. \frac{56}{c} + 6 = 13$$
$$c = 8$$

$$9. 7 + \frac{20}{x} = 11$$
$$x = 5$$

$$14. \frac{7}{z} - 3 = 4$$
$$z = 1$$

$$5. \frac{12}{x} - 4 = 0$$
$$x = 3$$

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

$$15. \frac{20}{b} + 2 = 7$$
$$b = 4$$

## Simple Linear Equations (B)

Solve for each variable.

1.  $\frac{16}{u} + 8 = 10$

6.  $\frac{48}{y} + 5 = 13$

11.  $10 + \frac{20}{a} = 14$

2.  $\frac{72}{a} - 8 = 0$

7.  $4 + \frac{10}{a} = 9$

12.  $9 + \frac{63}{c} = 16$

3.  $7 + \frac{56}{v} = 15$

8.  $10 + \frac{24}{x} = 13$

13.  $\frac{16}{a} + 4 = 8$

4.  $2 + \frac{6}{u} = 8$

9.  $7 + \frac{6}{y} = 13$

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

5.  $2 + \frac{36}{y} = 8$

10.  $5 + \frac{20}{u} = 7$

15.  $\frac{24}{z} - 2 = 1$

## Simple Linear Equations (B) Answers

Solve for each variable.

$$1. \frac{16}{u} + 8 = 10$$
$$u = 8$$

$$6. \frac{48}{y} + 5 = 13$$
$$y = 6$$

$$11. 10 + \frac{20}{a} = 14$$
$$a = 5$$

$$2. \frac{72}{a} - 8 = 0$$
$$a = 9$$

$$7. 4 + \frac{10}{a} = 9$$
$$a = 2$$

$$12. 9 + \frac{63}{c} = 16$$
$$c = 9$$

$$3. 7 + \frac{56}{v} = 15$$
$$v = 7$$

$$8. 10 + \frac{24}{x} = 13$$
$$x = 8$$

$$13. \frac{16}{a} + 4 = 8$$
$$a = 4$$

$$4. 2 + \frac{6}{u} = 8$$
$$u = 1$$

$$9. 7 + \frac{6}{y} = 13$$
$$y = 1$$

$$14. \frac{12}{x} - 2 = 1$$
$$x = 4$$

$$5. 2 + \frac{36}{y} = 8$$
$$y = 6$$

$$10. 5 + \frac{20}{u} = 7$$
$$u = 10$$

$$15. \frac{24}{z} - 2 = 1$$
$$z = 8$$

## Simple Linear Equations (C)

Solve for each variable.

1.  $\frac{32}{c} - 4 = 4$

6.  $\frac{40}{x} + 3 = 11$

11.  $6 + \frac{2}{b} = 8$

2.  $\frac{36}{y} - 3 = 1$

7.  $2 + \frac{28}{y} = 6$

12.  $\frac{50}{u} - 2 = 3$

3.  $\frac{6}{u} + 9 = 12$

8.  $6 + \frac{90}{u} = 15$

13.  $\frac{12}{u} + 5 = 9$

4.  $\frac{21}{a} + 3 = 10$

9.  $\frac{20}{a} + 4 = 9$

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

5.  $\frac{50}{u} + 7 = 12$

10.  $4 + \frac{40}{y} = 9$

15.  $\frac{27}{c} - 8 = 1$

## Simple Linear Equations (C) Answers

Solve for each variable.

$$1. \frac{32}{c} - 4 = 4$$
$$c = 4$$

$$6. \frac{40}{x} + 3 = 11$$
$$x = 5$$

$$11. 6 + \frac{2}{b} = 8$$
$$b = 1$$

$$2. \frac{36}{y} - 3 = 1$$
$$y = 9$$

$$7. 2 + \frac{28}{y} = 6$$
$$y = 7$$

$$12. \frac{50}{u} - 2 = 3$$
$$u = 10$$

$$3. \frac{6}{u} + 9 = 12$$
$$u = 2$$

$$8. 6 + \frac{90}{u} = 15$$
$$u = 10$$

$$13. \frac{12}{u} + 5 = 9$$
$$u = 3$$

$$4. \frac{21}{a} + 3 = 10$$
$$a = 3$$

$$9. \frac{20}{a} + 4 = 9$$
$$a = 4$$

$$14. \frac{6}{c} + 1 = 7$$
$$c = 1$$

$$5. \frac{50}{u} + 7 = 12$$
$$u = 10$$

$$10. 4 + \frac{40}{y} = 9$$
$$y = 8$$

$$15. \frac{27}{c} - 8 = 1$$
$$c = 3$$

## Simple Linear Equations (D)

Solve for each variable.

1.  $\frac{30}{z} - 3 = 0$

6.  $\frac{20}{b} - 1 = 1$

11.  $3 + \frac{8}{u} = 7$

2.  $\frac{8}{u} + 7 = 9$

7.  $2 + \frac{9}{a} = 5$

12.  $\frac{54}{y} - 3 = 3$

3.  $\frac{16}{b} + 7 = 9$

8.  $\frac{49}{b} - 3 = 4$

13.  $6 + \frac{20}{u} = 10$

4.  $2 + \frac{63}{x} = 11$

9.  $\frac{63}{x} + 6 = 15$

14.  $\frac{14}{u} + 8 = 10$

5.  $\frac{3}{a} + 8 = 11$

10.  $5 + \frac{40}{u} = 9$

15.  $\frac{50}{v} + 9 = 14$

## Simple Linear Equations (D) Answers

Solve for each variable.

$$1. \frac{30}{z} - 3 = 0$$
$$z = 10$$

$$6. \frac{20}{b} - 1 = 1$$
$$b = 10$$

$$11. 3 + \frac{8}{u} = 7$$
$$u = 2$$

$$2. \frac{8}{u} + 7 = 9$$
$$u = 4$$

$$7. 2 + \frac{9}{a} = 5$$
$$a = 3$$

$$12. \frac{54}{y} - 3 = 3$$
$$y = 9$$

$$3. \frac{16}{b} + 7 = 9$$
$$b = 8$$

$$8. \frac{49}{b} - 3 = 4$$
$$b = 7$$

$$13. 6 + \frac{20}{u} = 10$$
$$u = 5$$

$$4. 2 + \frac{63}{x} = 11$$
$$x = 7$$

$$9. \frac{63}{x} + 6 = 15$$
$$x = 7$$

$$14. \frac{14}{u} + 8 = 10$$
$$u = 7$$

$$5. \frac{3}{a} + 8 = 11$$
$$a = 1$$

$$10. 5 + \frac{40}{u} = 9$$
$$u = 10$$

$$15. \frac{50}{v} + 9 = 14$$
$$v = 10$$



## Simple Linear Equations (E)

Solve for each variable.

1.  $\frac{48}{y} + 1 = 7$

6.  $5 + \frac{28}{u} = 9$

11.  $5 + \frac{24}{c} = 8$

2.  $\frac{14}{c} - 3 = 4$

7.  $3 + \frac{6}{a} = 5$

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

3.  $6 + \frac{64}{y} = 14$

8.  $7 + \frac{18}{v} = 9$

13.  $10 + \frac{25}{v} = 15$

4.  $\frac{30}{z} + 9 = 14$

9.  $\frac{25}{a} - 1 = 4$

14.  $\frac{5}{z} - 5 = 0$

5.  $10 + \frac{30}{c} = 13$

10.  $\frac{36}{a} - 9 = 0$

15.  $6 + \frac{35}{y} = 13$

## Simple Linear Equations (E) Answers

Solve for each variable.

$$1. \frac{48}{y} + 1 = 7$$
$$y = 8$$

$$6. 5 + \frac{28}{u} = 9$$
$$u = 7$$

$$11. 5 + \frac{24}{c} = 8$$
$$c = 8$$

$$2. \frac{14}{c} - 3 = 4$$
$$c = 2$$

$$7. 3 + \frac{6}{a} = 5$$
$$a = 3$$

$$12. \frac{6}{y} - 1 = 1$$
$$y = 3$$

$$3. 6 + \frac{64}{y} = 14$$
$$y = 8$$

$$8. 7 + \frac{18}{v} = 9$$
$$v = 9$$

$$13. 10 + \frac{25}{v} = 15$$
$$v = 5$$

$$4. \frac{30}{z} + 9 = 14$$
$$z = 6$$

$$9. \frac{25}{a} - 1 = 4$$
$$a = 5$$

$$14. \frac{5}{z} - 5 = 0$$
$$z = 1$$

$$5. 10 + \frac{30}{c} = 13$$
$$c = 10$$

$$10. \frac{36}{a} - 9 = 0$$
$$a = 4$$

$$15. 6 + \frac{35}{y} = 13$$
$$y = 5$$

## Simple Linear Equations (F)

Solve for each variable.

1.  $\frac{9}{c} + 8 = 11$

6.  $5 + \frac{36}{a} = 11$

11.  $\frac{30}{c} + 3 = 8$

2.  $\frac{21}{u} + 2 = 9$

7.  $4 + \frac{42}{a} = 11$

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

3.  $\frac{25}{z} - 5 = 0$

8.  $\frac{56}{v} - 6 = 1$

13.  $10 + \frac{63}{b} = 19$

4.  $4 + \frac{32}{x} = 8$

9.  $10 + \frac{63}{u} = 19$

14.  $\frac{70}{x} + 6 = 13$

5.  $2 + \frac{40}{b} = 10$

10.  $1 + \frac{60}{z} = 7$

15.  $\frac{81}{c} + 6 = 15$

## Simple Linear Equations (F) Answers

Solve for each variable.

$$1. \frac{9}{c} + 8 = 11$$
$$c = 3$$

$$6. 5 + \frac{36}{a} = 11$$
$$a = 6$$

$$11. \frac{30}{c} + 3 = 8$$
$$c = 6$$

$$2. \frac{21}{u} + 2 = 9$$
$$u = 3$$

$$7. 4 + \frac{42}{a} = 11$$
$$a = 6$$

$$12. \frac{6}{u} + 1 = 3$$
$$u = 3$$

$$3. \frac{25}{z} - 5 = 0$$
$$z = 5$$

$$8. \frac{56}{v} - 6 = 1$$
$$v = 8$$

$$13. 10 + \frac{63}{b} = 19$$
$$b = 7$$

$$4. 4 + \frac{32}{x} = 8$$
$$x = 8$$

$$9. 10 + \frac{63}{u} = 19$$
$$u = 7$$

$$14. \frac{70}{x} + 6 = 13$$
$$x = 10$$

$$5. 2 + \frac{40}{b} = 10$$
$$b = 5$$

$$10. 1 + \frac{60}{z} = 7$$
$$z = 10$$

$$15. \frac{81}{c} + 6 = 15$$
$$c = 9$$

## Simple Linear Equations (G)

Solve for each variable.

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

6.  $\frac{49}{z} + 9 = 16$

11.  $5 + \frac{40}{b} = 10$

2.  $\frac{36}{c} + 1 = 10$

7.  $\frac{49}{b} + 7 = 14$

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

3.  $\frac{49}{x} - 2 = 5$

8.  $8 + \frac{81}{a} = 17$

13.  $\frac{7}{y} - 7 = 0$

4.  $6 + \frac{9}{c} = 15$

9.  $\frac{40}{v} - 2 = 6$

14.  $\frac{32}{u} + 5 = 9$

5.  $\frac{3}{z} - 3 = 0$

10.  $\frac{18}{x} - 5 = 1$

15.  $1 + \frac{35}{b} = 8$

## Simple Linear Equations (G) Answers

Solve for each variable.

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

$a = 2$

$$6. \frac{49}{z} + 9 = 16$$

$z = 7$

$$11. 5 + \frac{40}{b} = 10$$

$b = 8$

$$2. \frac{36}{c} + 1 = 10$$

$c = 4$

$$7. \frac{49}{b} + 7 = 14$$

$b = 7$

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

$u = 1$

$$3. \frac{49}{x} - 2 = 5$$

$x = 7$

$$8. 8 + \frac{81}{a} = 17$$

$a = 9$

$$13. \frac{7}{y} - 7 = 0$$

$y = 1$

$$4. 6 + \frac{9}{c} = 15$$

$c = 1$

$$9. \frac{40}{v} - 2 = 6$$

$v = 5$

$$14. \frac{32}{u} + 5 = 9$$

$u = 8$

$$5. \frac{3}{z} - 3 = 0$$

$z = 1$

$$10. \frac{18}{x} - 5 = 1$$

$x = 3$

$$15. 1 + \frac{35}{b} = 8$$

$b = 5$

## Simple Linear Equations (H)

Solve for each variable.

1.  $\frac{8}{c} + 10 = 18$

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

11.  $8 + \frac{80}{c} = 16$

2.  $8 + \frac{18}{y} = 14$

7.  $3 + \frac{32}{z} = 7$

12.  $8 + \frac{8}{y} = 12$

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

8.  $\frac{28}{u} + 7 = 11$

13.  $2 + \frac{6}{a} = 5$

4.  $\frac{36}{v} - 1 = 5$

9.  $\frac{15}{a} + 8 = 11$

14.  $2 + \frac{64}{x} = 10$

5.  $\frac{8}{v} + 10 = 18$

10.  $\frac{15}{y} + 9 = 12$

15.  $\frac{8}{v} - 1 = 7$

## Simple Linear Equations (H) Answers

Solve for each variable.

$$1. \frac{8}{c} + 10 = 18$$
$$c = 1$$

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

$$11. 8 + \frac{80}{c} = 16$$
$$c = 10$$

$$2. 8 + \frac{18}{y} = 14$$
$$y = 3$$

$$7. 3 + \frac{32}{z} = 7$$
$$z = 8$$

$$12. 8 + \frac{8}{y} = 12$$
$$y = 2$$

$$3. 3 + \frac{2}{v} = 5$$
$$v = 1$$

$$8. \frac{28}{u} + 7 = 11$$
$$u = 7$$

$$13. 2 + \frac{6}{a} = 5$$
$$a = 2$$

$$4. \frac{36}{v} - 1 = 5$$
$$v = 6$$

$$9. \frac{15}{a} + 8 = 11$$
$$a = 5$$

$$14. 2 + \frac{64}{x} = 10$$
$$x = 8$$

$$5. \frac{8}{v} + 10 = 18$$
$$v = 1$$

$$10. \frac{15}{y} + 9 = 12$$
$$y = 5$$

$$15. \frac{8}{v} - 1 = 7$$
$$v = 1$$



## Simple Linear Equations (I)

Solve for each variable.

1.  $\frac{4}{z} + 3 = 5$

6.  $\frac{18}{c} + 2 = 4$

11.  $7 + \frac{16}{u} = 15$

2.  $\frac{56}{z} + 4 = 11$

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

12.  $5 + \frac{24}{y} = 9$

3.  $\frac{30}{u} - 1 = 4$

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

13.  $\frac{27}{b} - 7 = 2$

4.  $\frac{10}{z} - 5 = 0$

9.  $\frac{9}{c} - 1 = 8$

14.  $6 + \frac{30}{a} = 9$

5.  $6 + \frac{5}{a} = 11$

10.  $\frac{4}{z} + 3 = 7$

15.  $\frac{16}{v} - 3 = 5$

## Simple Linear Equations (I) Answers

Solve for each variable.

$$1. \frac{4}{z} + 3 = 5$$
$$z = 2$$

$$6. \frac{18}{c} + 2 = 4$$
$$c = 9$$

$$11. 7 + \frac{16}{u} = 15$$
$$u = 2$$

$$2. \frac{56}{z} + 4 = 11$$
$$z = 8$$

$$7. \frac{4}{x} + 10 = 12$$
$$x = 2$$

$$12. 5 + \frac{24}{y} = 9$$
$$y = 6$$

$$3. \frac{30}{u} - 1 = 4$$
$$u = 6$$

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

$$13. \frac{27}{b} - 7 = 2$$
$$b = 3$$

$$4. \frac{10}{z} - 5 = 0$$
$$z = 2$$

$$9. \frac{9}{c} - 1 = 8$$
$$c = 1$$

$$14. 6 + \frac{30}{a} = 9$$
$$a = 10$$

$$5. 6 + \frac{5}{a} = 11$$
$$a = 1$$

$$10. \frac{4}{z} + 3 = 7$$
$$z = 1$$

$$15. \frac{16}{v} - 3 = 5$$
$$v = 2$$

## Simple Linear Equations (J)

Solve for each variable.

1.  $9 + \frac{80}{b} = 17$

6.  $6 + \frac{50}{y} = 11$

11.  $\frac{56}{v} + 5 = 12$

2.  $7 + \frac{2}{y} = 9$

7.  $1 + \frac{10}{u} = 6$

12.  $4 + \frac{9}{v} = 13$

3.  $\frac{20}{a} + 8 = 10$

8.  $2 + \frac{15}{u} = 7$

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

4.  $6 + \frac{14}{u} = 8$

9.  $1 + \frac{54}{y} = 7$

14.  $\frac{6}{a} - 1 = 2$

5.  $10 + \frac{28}{b} = 14$

10.  $9 + \frac{3}{z} = 12$

15.  $4 + \frac{7}{u} = 11$

## Simple Linear Equations (J) Answers

Solve for each variable.

$$1. 9 + \frac{80}{b} = 17$$
$$b = 10$$

$$6. 6 + \frac{50}{y} = 11$$
$$y = 10$$

$$11. \frac{56}{v} + 5 = 12$$
$$v = 8$$

$$2. 7 + \frac{2}{y} = 9$$
$$y = 1$$

$$7. 1 + \frac{10}{u} = 6$$
$$u = 2$$

$$12. 4 + \frac{9}{v} = 13$$
$$v = 1$$

$$3. \frac{20}{a} + 8 = 10$$
$$a = 10$$

$$8. 2 + \frac{15}{u} = 7$$
$$u = 3$$

$$13. \frac{4}{z} + 6 = 10$$
$$z = 1$$

$$4. 6 + \frac{14}{u} = 8$$
$$u = 7$$

$$9. 1 + \frac{54}{y} = 7$$
$$y = 9$$

$$14. \frac{6}{a} - 1 = 2$$
$$a = 2$$

$$5. 10 + \frac{28}{b} = 14$$
$$b = 7$$

$$10. 9 + \frac{3}{z} = 12$$
$$z = 1$$

$$15. 4 + \frac{7}{u} = 11$$
$$u = 1$$