

Simple Linear Equations (A)

Solve for each variable.

1. $-10 - \frac{x}{-5} = -19$

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

11. $\frac{v}{7} + (-2) = -4$

2. $\frac{c}{8} - (-9) = 18$

7. $\frac{18}{y} + 6 = 12$

12. $\frac{v}{-6} + (-4) = -8$

3. $3 + \frac{x}{7} = 1$

8. $9 + \frac{u}{4} = 13$

13. $2 - \frac{v}{-7} = -6$

4. $\frac{56}{y} + 5 = 13$

9. $\frac{-12}{u} - 7 = -1$

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

5. $\frac{36}{b} + (-10) = -6$

10. $6 + \frac{14}{u} = 8$

15. $\frac{y}{3} + (-2) = 6$

Simple Linear Equations (A) Answers

Solve for each variable.

$$1. -10 - \frac{x}{-5} = -19$$

$x = -45$

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

$b = 16$

$$11. \frac{v}{7} + (-2) = -4$$

$v = -14$

$$2. \frac{c}{8} - (-9) = 18$$

$c = 72$

$$7. \frac{18}{y} + 6 = 12$$

$y = 3$

$$12. \frac{v}{-6} + (-4) = -8$$

$v = 24$

$$3. 3 + \frac{x}{7} = 1$$

$x = -14$

$$8. 9 + \frac{u}{4} = 13$$

$u = 16$

$$13. 2 - \frac{v}{-7} = -6$$

$v = -56$

$$4. \frac{56}{y} + 5 = 13$$

$y = 7$

$$9. \frac{-12}{u} - 7 = -1$$

$u = -2$

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

$c = 24$

$$5. \frac{36}{b} + (-10) = -6$$

$b = 9$

$$10. 6 + \frac{14}{u} = 8$$

$u = 7$

$$15. \frac{y}{3} + (-2) = 6$$

$y = 24$

Simple Linear Equations (B)

Solve for each variable.

1. $9 - \frac{y}{-5} = 0$

6. $6 + \frac{u}{-4} = 12$

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

2. $\frac{4}{a} - (-7) = 11$

7. $\frac{v}{8} + 4 = 8$

12. $\frac{-27}{a} - 8 = -5$

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

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

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

4. $3 + \frac{-24}{b} = 6$

9. $\frac{y}{-4} - 6 = -9$

14. $-1 + \frac{24}{b} = -4$

5. $10 + \frac{b}{2} = 14$

10. $2 + \frac{-72}{u} = -6$

15. $\frac{c}{-9} - 10 = -7$

Simple Linear Equations (B) Answers

Solve for each variable.

$$1. 9 - \frac{y}{-5} = 0$$
$$y = -45$$

$$6. 6 + \frac{u}{-4} = 12$$
$$u = -24$$

$$11. \frac{y}{-8} + (-4) = 1$$
$$y = -40$$

$$2. \frac{4}{a} - (-7) = 11$$
$$a = 1$$

$$7. \frac{v}{8} + 4 = 8$$
$$v = 32$$

$$12. \frac{-27}{a} - 8 = -5$$
$$a = -9$$

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

$$8. 1 - \frac{v}{-9} = 6$$
$$v = 45$$

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

$$4. 3 + \frac{-24}{b} = 6$$
$$b = -8$$

$$9. \frac{y}{-4} - 6 = -9$$
$$y = 12$$

$$14. -1 + \frac{24}{b} = -4$$
$$b = -8$$

$$5. 10 + \frac{b}{2} = 14$$
$$b = 8$$

$$10. 2 + \frac{-72}{u} = -6$$
$$u = 9$$

$$15. \frac{c}{-9} - 10 = -7$$
$$c = -27$$

Simple Linear Equations (C)

Solve for each variable.

$$1. 6 + \frac{c}{3} = 15$$

$$6. 2 - \frac{5}{b} = 7$$

$$11. \frac{-20}{b} + (-2) = 3$$

$$2. \frac{v}{8} - 3 = 0$$

$$7. \frac{-9}{z} + (-10) = -7$$

$$12. \frac{-21}{b} + 2 = -5$$

$$3. 10 - \frac{-90}{x} = 19$$

$$8. 6 + \frac{24}{v} = 12$$

$$13. 6 + \frac{c}{4} = -2$$

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

$$9. \frac{16}{a} + (-3) = 1$$

$$14. 2 - \frac{c}{-4} = 7$$

$$5. 9 + \frac{45}{a} = 4$$

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

$$15. 5 + \frac{32}{b} = 9$$

Simple Linear Equations (C) Answers

Solve for each variable.

$$1. 6 + \frac{c}{3} = 15$$
$$c = 27$$

$$6. 2 - \frac{5}{b} = 7$$
$$b = -1$$

$$11. \frac{-20}{b} + (-2) = 3$$
$$b = -4$$

$$2. \frac{v}{8} - 3 = 0$$
$$v = 24$$

$$7. \frac{-9}{z} + (-10) = -7$$
$$z = -3$$

$$12. \frac{-21}{b} + 2 = -5$$
$$b = 3$$

$$3. 10 - \frac{-90}{x} = 19$$
$$x = 10$$

$$8. 6 + \frac{24}{v} = 12$$
$$v = 4$$

$$13. 6 + \frac{c}{4} = -2$$
$$c = -32$$

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

$$9. \frac{16}{a} + (-3) = 1$$
$$a = 4$$

$$14. 2 - \frac{c}{-4} = 7$$
$$c = 20$$

$$5. 9 + \frac{45}{a} = 4$$
$$a = -9$$

$$10. \frac{v}{-7} + 7 = 13$$
$$v = -42$$

$$15. 5 + \frac{32}{b} = 9$$
$$b = 8$$

Simple Linear Equations (D)

Solve for each variable.

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

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

11. $\frac{24}{c} + (-2) = 2$

2. $5 + \frac{54}{y} = 11$

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

12. $4 + \frac{9}{x} = 7$

3. $3 - \frac{v}{4} = 0$

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

13. $\frac{y}{-7} + 3 = 11$

4. $-7 - \frac{y}{-8} = -16$

9. $\frac{c}{6} - (-10) = 13$

14. $\frac{c}{-3} + 6 = 11$

5. $2 + \frac{y}{-3} = 11$

10. $\frac{-42}{v} + 5 = -2$

15. $-1 + \frac{4}{b} = 3$

Simple Linear Equations (D) Answers

Solve for each variable.

$$1. \frac{v}{3} - 10 = -5$$
$$v = 15$$

$$6. 1 + \frac{a}{8} = 3$$
$$a = 16$$

$$11. \frac{24}{c} + (-2) = 2$$
$$c = 6$$

$$2. 5 + \frac{54}{y} = 11$$
$$y = 9$$

$$7. \frac{c}{4} - (-8) = 2$$
$$c = -24$$

$$12. 4 + \frac{9}{x} = 7$$
$$x = 3$$

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

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

$$13. \frac{y}{-7} + 3 = 11$$
$$y = -56$$

$$4. -7 - \frac{y}{-8} = -16$$
$$y = -72$$

$$9. \frac{c}{6} - (-10) = 13$$
$$c = 18$$

$$14. \frac{c}{-3} + 6 = 11$$
$$c = -15$$

$$5. 2 + \frac{y}{-3} = 11$$
$$y = -27$$

$$10. \frac{-42}{v} + 5 = -2$$
$$v = 6$$

$$15. -1 + \frac{4}{b} = 3$$
$$b = 1$$

Simple Linear Equations (E)

Solve for each variable.

1. $2 + \frac{18}{v} = 11$

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

11. $\frac{-72}{c} + 6 = 14$

2. $\frac{40}{c} - (-5) = 13$

7. $3 - \frac{a}{9} = 6$

12. $7 - \frac{18}{b} = 13$

3. $9 - \frac{24}{z} = 17$

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

13. $\frac{u}{3} - 9 = -17$

4. $-7 + \frac{72}{u} = 2$

9. $10 - \frac{x}{-9} = 7$

14. $-2 - \frac{z}{-3} = 2$

5. $\frac{z}{7} - 8 = 1$

10. $\frac{z}{-4} - 7 = -2$

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

Simple Linear Equations (E) Answers

Solve for each variable.

$$1. 2 + \frac{18}{v} = 11$$
$$v = 2$$

$$6. 5 + \frac{x}{5} = 10$$
$$x = 25$$

$$11. \frac{-72}{c} + 6 = 14$$
$$c = -9$$

$$2. \frac{40}{c} - (-5) = 13$$
$$c = 5$$

$$7. 3 - \frac{a}{9} = 6$$
$$a = -27$$

$$12. 7 - \frac{18}{b} = 13$$
$$b = -3$$

$$3. 9 - \frac{24}{z} = 17$$
$$z = -3$$

$$8. \frac{a}{6} - 1 = 6$$
$$a = 42$$

$$13. \frac{u}{3} - 9 = -17$$
$$u = -24$$

$$4. -7 + \frac{72}{u} = 2$$
$$u = 8$$

$$9. 10 - \frac{x}{-9} = 7$$
$$x = -27$$

$$14. -2 - \frac{z}{-3} = 2$$
$$z = 12$$

$$5. \frac{z}{7} - 8 = 1$$
$$z = 63$$

$$10. \frac{z}{-4} - 7 = -2$$
$$z = -20$$

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

Simple Linear Equations (F)

Solve for each variable.

1. $\frac{-8}{x} + 4 = 8$

6. $-6 + \frac{v}{2} = -4$

11. $\frac{4}{b} + 9 = 11$

2. $\frac{a}{8} - (-5) = 13$

7. $2 - \frac{-10}{c} = 4$

12. $\frac{42}{x} + 9 = 16$

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

8. $5 - \frac{28}{z} = 12$

13. $\frac{v}{-8} - (-6) = 9$

4. $7 + \frac{x}{9} = 13$

9. $-3 - \frac{z}{8} = 2$

14. $-4 - \frac{15}{v} = -7$

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

10. $\frac{u}{-5} - (-5) = 7$

15. $8 - \frac{-3}{y} = 11$

Simple Linear Equations (F) Answers

Solve for each variable.

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

$$6. -6 + \frac{v}{2} = -4$$
$$v = 4$$

$$11. \frac{4}{b} + 9 = 11$$
$$b = 2$$

$$2. \frac{a}{8} - (-5) = 13$$
$$a = 64$$

$$7. 2 - \frac{-10}{c} = 4$$
$$c = 5$$

$$12. \frac{42}{x} + 9 = 16$$
$$x = 6$$

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

$$8. 5 - \frac{28}{z} = 12$$
$$z = -4$$

$$13. \frac{v}{-8} - (-6) = 9$$
$$v = -24$$

$$4. 7 + \frac{x}{9} = 13$$
$$x = 54$$

$$9. -3 - \frac{z}{8} = 2$$
$$z = -40$$

$$14. -4 - \frac{15}{v} = -7$$
$$v = 5$$

$$5. \frac{y}{3} + 5 = 11$$
$$y = 18$$

$$10. \frac{u}{-5} - (-5) = 7$$
$$u = -10$$

$$15. 8 - \frac{-3}{y} = 11$$
$$y = 1$$

Simple Linear Equations (G)

Solve for each variable.

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

6. $-10 + \frac{45}{a} = -15$

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

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

7. $-4 - \frac{-72}{u} = 5$

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

3. $-7 + \frac{x}{3} = -13$

8. $\frac{-6}{z} - 7 = -1$

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

4. $\frac{-27}{c} - 7 = 2$

9. $4 - \frac{v}{4} = -2$

14. $5 - \frac{-60}{y} = 11$

5. $\frac{a}{6} + (-6) = 0$

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

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

Simple Linear Equations (G) Answers

Solve for each variable.

$$1. \frac{u}{3} - 7 = -14$$
$$u = -21$$

$$6. -10 + \frac{45}{a} = -15$$
$$a = -9$$

$$11. \frac{x}{2} + (-4) = 1$$
$$x = 10$$

$$2. 7 - \frac{-2}{y} = 5$$
$$y = -1$$

$$7. -4 - \frac{-72}{u} = 5$$
$$u = 8$$

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

$$3. -7 + \frac{x}{3} = -13$$
$$x = -18$$

$$8. \frac{-6}{z} - 7 = -1$$
$$z = -1$$

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

$$4. \frac{-27}{c} - 7 = 2$$
$$c = -3$$

$$9. 4 - \frac{v}{4} = -2$$
$$v = 24$$

$$14. 5 - \frac{-60}{y} = 11$$
$$y = 10$$

$$5. \frac{a}{6} + (-6) = 0$$
$$a = 36$$

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

$$15. \frac{c}{6} - 9 = -6$$
$$c = 18$$

Simple Linear Equations (H)

Solve for each variable.

1. $\frac{36}{z} + 8 = 14$

6. $\frac{b}{7} + (-8) = -14$

11. $10 + \frac{v}{4} = 16$

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

7. $\frac{12}{x} + 5 = 9$

12. $\frac{40}{c} + 9 = 13$

3. $9 + \frac{-10}{a} = 11$

8. $\frac{90}{y} - 10 = -19$

13. $-1 + \frac{b}{-4} = 3$

4. $\frac{c}{-2} - (-8) = 17$

9. $7 - \frac{81}{y} = 16$

14. $\frac{-56}{z} + 3 = 11$

5. $-8 - \frac{18}{c} = -17$

10. $\frac{v}{-6} - (-10) = 16$

15. $-8 + \frac{10}{x} = -6$

Simple Linear Equations (H) Answers

Solve for each variable.

$$1. \frac{36}{z} + 8 = 14$$
$$z = 6$$

$$6. \frac{b}{7} + (-8) = -14$$
$$b = -42$$

$$11. 10 + \frac{v}{4} = 16$$
$$v = 24$$

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

$$7. \frac{12}{x} + 5 = 9$$
$$x = 3$$

$$12. \frac{40}{c} + 9 = 13$$
$$c = 10$$

$$3. 9 + \frac{-10}{a} = 11$$
$$a = -5$$

$$8. \frac{90}{y} - 10 = -19$$
$$y = -10$$

$$13. -1 + \frac{b}{-4} = 3$$
$$b = -16$$

$$4. \frac{c}{-2} - (-8) = 17$$
$$c = -18$$

$$9. 7 - \frac{81}{y} = 16$$
$$y = -9$$

$$14. \frac{-56}{z} + 3 = 11$$
$$z = -7$$

$$5. -8 - \frac{18}{c} = -17$$
$$c = 2$$

$$10. \frac{v}{-6} - (-10) = 16$$
$$v = -36$$

$$15. -8 + \frac{10}{x} = -6$$
$$x = 5$$

Simple Linear Equations (I)

Solve for each variable.

1. $\frac{v}{6} + (-8) = -3$

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

11. $5 - \frac{24}{b} = 9$

2. $6 - \frac{-4}{a} = 10$

7. $-2 + \frac{6}{v} = -4$

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

3. $\frac{x}{-6} - 5 = 4$

8. $4 - \frac{b}{7} = 11$

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

4. $-2 - \frac{-72}{b} = 6$

9. $10 + \frac{8}{b} = 14$

14. $5 - \frac{u}{4} = -1$

5. $\frac{-14}{b} - (-6) = 8$

10. $7 + \frac{-49}{v} = 14$

15. $-10 + \frac{20}{a} = -5$

Simple Linear Equations (I) Answers

Solve for each variable.

$$1. \frac{v}{6} + (-8) = -3$$

$v = 30$

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

$x = -35$

$$11. 5 - \frac{24}{b} = 9$$

$b = -6$

$$2. 6 - \frac{-4}{a} = 10$$

$a = 1$

$$7. -2 + \frac{6}{v} = -4$$

$v = -3$

$$12. \frac{u}{-4} - 1 = -3$$

$u = 8$

$$3. \frac{x}{-6} - 5 = 4$$

$x = -54$

$$8. 4 - \frac{b}{7} = 11$$

$b = -49$

$$13. \frac{a}{2} + 9 = 7$$

$a = -4$

$$4. -2 - \frac{-72}{b} = 6$$

$b = 9$

$$9. 10 + \frac{8}{b} = 14$$

$b = 2$

$$14. 5 - \frac{u}{4} = -1$$

$u = 24$

$$5. \frac{-14}{b} - (-6) = 8$$

$b = -7$

$$10. 7 + \frac{-49}{v} = 14$$

$v = -7$

$$15. -10 + \frac{20}{a} = -5$$

$a = 4$

Simple Linear Equations (J)

Solve for each variable.

1. $7 + \frac{9}{a} = 16$

6. $\frac{16}{y} - 2 = 2$

11. $5 - \frac{-42}{b} = 12$

2. $5 + \frac{-15}{y} = 10$

7. $\frac{x}{-2} + 7 = 0$

12. $\frac{24}{c} - 3 = 3$

3. $\frac{-18}{v} + 2 = 5$

8. $\frac{c}{-8} - 2 = -11$

13. $-7 - \frac{c}{-8} = -5$

4. $\frac{z}{-3} - (-4) = 8$

9. $\frac{x}{-3} + 6 = 14$

14. $\frac{v}{9} - (-9) = 18$

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

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

15. $\frac{-8}{u} + (-10) = -8$

Simple Linear Equations (J) Answers

Solve for each variable.

$$1. 7 + \frac{9}{a} = 16$$
$$a = 1$$

$$6. \frac{16}{y} - 2 = 2$$
$$y = 4$$

$$11. 5 - \frac{-42}{b} = 12$$
$$b = 6$$

$$2. 5 + \frac{-15}{y} = 10$$
$$y = -3$$

$$7. \frac{x}{-2} + 7 = 0$$
$$x = 14$$

$$12. \frac{24}{c} - 3 = 3$$
$$c = 4$$

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

$$8. \frac{c}{-8} - 2 = -11$$
$$c = 72$$

$$13. -7 - \frac{c}{-8} = -5$$
$$c = 16$$

$$4. \frac{z}{-3} - (-4) = 8$$
$$z = -12$$

$$9. \frac{x}{-3} + 6 = 14$$
$$x = -24$$

$$14. \frac{v}{9} - (-9) = 18$$
$$v = 81$$

$$5. -3 + \frac{-9}{a} = 6$$
$$a = -1$$

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

$$15. \frac{-8}{u} + (-10) = -8$$
$$u = -4$$