

Simple Linear Equations (A)

Solve for each variable.

1. $\frac{50}{u} - (-2) = 7$

6. $4 + \frac{15}{v} = 7$

11. $9 + \frac{30}{a} = 6$

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

7. $\frac{-21}{u} + 8 = 11$

12. $\frac{21}{z} + 3 = 6$

3. $\frac{-12}{b} - 10 = -6$

8. $\frac{-24}{b} - (-5) = 9$

13. $\frac{35}{y} - 9 = -14$

4. $2 - \frac{45}{y} = -7$

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

14. $\frac{-32}{z} + 6 = 14$

5. $\frac{70}{u} + 1 = 8$

10. $\frac{20}{v} - 9 = -5$

15. $3 - \frac{-32}{c} = -5$

Simple Linear Equations (A) Answers

Solve for each variable.

$$1. \frac{50}{u} - (-2) = 7$$
$$u = 10$$

$$6. 4 + \frac{15}{v} = 7$$
$$v = 5$$

$$11. 9 + \frac{30}{a} = 6$$
$$a = -10$$

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

$$7. \frac{-21}{u} + 8 = 11$$
$$u = -7$$

$$12. \frac{21}{z} + 3 = 6$$
$$z = 7$$

$$3. \frac{-12}{b} - 10 = -6$$
$$b = -3$$

$$8. \frac{-24}{b} - (-5) = 9$$
$$b = -6$$

$$13. \frac{35}{y} - 9 = -14$$
$$y = -7$$

$$4. 2 - \frac{45}{y} = -7$$
$$y = 5$$

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

$$14. \frac{-32}{z} + 6 = 14$$
$$z = -4$$

$$5. \frac{70}{u} + 1 = 8$$
$$u = 10$$

$$10. \frac{20}{v} - 9 = -5$$
$$v = 5$$

$$15. 3 - \frac{-32}{c} = -5$$
$$c = -4$$

Simple Linear Equations (B)

Solve for each variable.

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

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

$$11. \frac{30}{u} - 2 = 4$$

$$2. \frac{70}{v} - (-4) = 11$$

$$7. 5 - \frac{-54}{y} = 11$$

$$12. \frac{35}{y} + 8 = 15$$

$$3. 9 + \frac{-27}{u} = 6$$

$$8. \frac{8}{v} + 6 = 10$$

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

$$4. -7 + \frac{-30}{u} = -10$$

$$9. \frac{42}{u} - 7 = 0$$

$$14. 3 + \frac{2}{x} = 5$$

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

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

$$15. \frac{-35}{a} - (-8) = 1$$

Simple Linear Equations (B) Answers

Solve for each variable.

$$1. \frac{-10}{a} + (-4) = -6$$
$$a = 5$$

$$6. \frac{-49}{a} + 9 = 16$$
$$a = -7$$

$$11. \frac{30}{u} - 2 = 4$$
$$u = 5$$

$$2. \frac{70}{v} - (-4) = 11$$
$$v = 10$$

$$7. 5 - \frac{-54}{y} = 11$$
$$y = 9$$

$$12. \frac{35}{y} + 8 = 15$$
$$y = 5$$

$$3. 9 + \frac{-27}{u} = 6$$
$$u = 9$$

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

$$13. 2 + \frac{-3}{b} = 5$$
$$b = -1$$

$$4. -7 + \frac{-30}{u} = -10$$
$$u = 10$$

$$9. \frac{42}{u} - 7 = 0$$
$$u = 6$$

$$14. 3 + \frac{2}{x} = 5$$
$$x = 1$$

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

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

$$15. \frac{-35}{a} - (-8) = 1$$
$$a = 5$$

Simple Linear Equations (C)

Solve for each variable.

1. $\frac{-48}{v} + 5 = 13$

6. $\frac{16}{z} - (-3) = 11$

11. $\frac{-40}{c} + 2 = 7$

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

7. $\frac{16}{v} + 4 = 2$

12. $8 + \frac{-42}{x} = 15$

3. $1 - \frac{-14}{c} = 3$

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

13. $-6 - \frac{-20}{b} = -10$

4. $-7 - \frac{20}{c} = -12$

9. $2 + \frac{-24}{b} = 6$

14. $9 + \frac{12}{z} = 15$

5. $\frac{-40}{u} - (-1) = 9$

10. $\frac{49}{x} - 4 = -11$

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

Simple Linear Equations (C) Answers

Solve for each variable.

$$1. \frac{-48}{v} + 5 = 13$$
$$v = -6$$

$$6. \frac{16}{z} - (-3) = 11$$
$$z = 2$$

$$11. \frac{-40}{c} + 2 = 7$$
$$c = -8$$

$$2. \frac{-10}{x} - 7 = -9$$
$$x = 5$$

$$7. \frac{16}{v} + 4 = 2$$
$$v = -8$$

$$12. 8 + \frac{-42}{x} = 15$$
$$x = -6$$

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

$$8. 6 - \frac{6}{a} = 8$$
$$a = -3$$

$$13. -6 - \frac{-20}{b} = -10$$
$$b = -5$$

$$4. -7 - \frac{20}{c} = -12$$
$$c = 4$$

$$9. 2 + \frac{-24}{b} = 6$$
$$b = -6$$

$$14. 9 + \frac{12}{z} = 15$$
$$z = 2$$

$$5. \frac{-40}{u} - (-1) = 9$$
$$u = -5$$

$$10. \frac{49}{x} - 4 = -11$$
$$x = -7$$

$$15. \frac{36}{y} - 8 = -4$$
$$y = 9$$

Simple Linear Equations (D)

Solve for each variable.

1. $4 + \frac{-63}{y} = -3$

6. $6 - \frac{63}{v} = 13$

11. $1 - \frac{-5}{c} = -4$

2. $6 + \frac{21}{x} = 3$

7. $\frac{20}{x} - 2 = -7$

12. $-3 + \frac{-42}{z} = 3$

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

8. $\frac{-9}{v} - 10 = -19$

13. $\frac{-21}{v} + 8 = 15$

4. $\frac{-24}{c} - 9 = -15$

9. $8 + \frac{64}{y} = 16$

14. $\frac{25}{z} + 1 = -4$

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

10. $-7 - \frac{-30}{u} = -2$

15. $\frac{-6}{c} - 5 = -8$

Simple Linear Equations (D) Answers

Solve for each variable.

$$1. 4 + \frac{-63}{y} = -3$$
$$y = 9$$

$$6. 6 - \frac{63}{v} = 13$$
$$v = -9$$

$$11. 1 - \frac{-5}{c} = -4$$
$$c = -1$$

$$2. 6 + \frac{21}{x} = 3$$
$$x = -7$$

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

$$12. -3 + \frac{-42}{z} = 3$$
$$z = -7$$

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

$$8. \frac{-9}{v} - 10 = -19$$
$$v = 1$$

$$13. \frac{-21}{v} + 8 = 15$$
$$v = -3$$

$$4. \frac{-24}{c} - 9 = -15$$
$$c = 4$$

$$9. 8 + \frac{64}{y} = 16$$
$$y = 8$$

$$14. \frac{25}{z} + 1 = -4$$
$$z = -5$$

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

$$10. -7 - \frac{-30}{u} = -2$$
$$u = 6$$

$$15. \frac{-6}{c} - 5 = -8$$
$$c = 2$$

Simple Linear Equations (E)

Solve for each variable.

$$1. 2 + \frac{90}{a} = -7$$

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

$$11. \frac{-80}{c} + 4 = 12$$

$$2. \frac{16}{x} + (-10) = -14$$

$$7. \frac{-45}{v} + (-2) = -7$$

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

$$3. \frac{-2}{v} + 5 = 7$$

$$8. \frac{50}{u} + 4 = 9$$

$$13. 2 + \frac{9}{c} = 5$$

$$4. 3 - \frac{-28}{x} = -1$$

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

$$14. 4 + \frac{12}{y} = 1$$

$$5. 1 - \frac{-60}{u} = -5$$

$$10. 6 - \frac{-20}{b} = 8$$

$$15. \frac{-21}{z} - 6 = -9$$

Simple Linear Equations (E) Answers

Solve for each variable.

$$1. 2 + \frac{90}{a} = -7$$
$$a = -10$$

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

$$11. \frac{-80}{c} + 4 = 12$$
$$c = -10$$

$$2. \frac{16}{x} + (-10) = -14$$
$$x = -4$$

$$7. \frac{-45}{v} + (-2) = -7$$
$$v = 9$$

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

$$3. \frac{-2}{v} + 5 = 7$$
$$v = -1$$

$$8. \frac{50}{u} + 4 = 9$$
$$u = 10$$

$$13. 2 + \frac{9}{c} = 5$$
$$c = 3$$

$$4. 3 - \frac{-28}{x} = -1$$
$$x = -7$$

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

$$14. 4 + \frac{12}{y} = 1$$
$$y = -4$$

$$5. 1 - \frac{-60}{u} = -5$$
$$u = -10$$

$$10. 6 - \frac{-20}{b} = 8$$
$$b = 10$$

$$15. \frac{-21}{z} - 6 = -9$$
$$z = 7$$

Simple Linear Equations (F)

Solve for each variable.

1. $1 - \frac{-63}{b} = 10$

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

11. $\frac{48}{z} - (-5) = 11$

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

7. $7 + \frac{36}{y} = 1$

12. $\frac{-20}{c} - (-6) = 4$

3. $\frac{-12}{z} - 7 = -1$

8. $\frac{28}{y} - (-4) = 8$

13. $5 + \frac{6}{x} = 8$

4. $\frac{4}{y} + 3 = 7$

9. $\frac{42}{z} + (-6) = -12$

14. $\frac{-25}{b} + 9 = 4$

5. $\frac{40}{c} + (-3) = 2$

10. $\frac{-24}{c} + 4 = 7$

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

Simple Linear Equations (F) Answers

Solve for each variable.

$$1. 1 - \frac{-63}{b} = 10$$

$b = 7$

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

$x = -1$

$$11. \frac{48}{z} - (-5) = 11$$

$z = 8$

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

$a = -1$

$$7. 7 + \frac{36}{y} = 1$$

$y = -6$

$$12. \frac{-20}{c} - (-6) = 4$$

$c = 10$

$$3. \frac{-12}{z} - 7 = -1$$

$z = -2$

$$8. \frac{28}{y} - (-4) = 8$$

$y = 7$

$$13. 5 + \frac{6}{x} = 8$$

$x = 2$

$$4. \frac{4}{y} + 3 = 7$$

$y = 1$

$$9. \frac{42}{z} + (-6) = -12$$

$z = -7$

$$14. \frac{-25}{b} + 9 = 4$$

$b = 5$

$$5. \frac{40}{c} + (-3) = 2$$

$c = 8$

$$10. \frac{-24}{c} + 4 = 7$$

$c = -8$

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

$b = -5$

Simple Linear Equations (G)

Solve for each variable.

$$1. 2 - \frac{64}{u} = 10$$

$$6. \frac{-24}{b} - (-9) = 6$$

$$11. \frac{-48}{v} - 1 = 5$$

$$2. 9 - \frac{63}{z} = 16$$

$$7. 7 + \frac{-50}{x} = 12$$

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

$$3. -2 + \frac{-64}{b} = -10$$

$$8. 9 + \frac{28}{b} = 5$$

$$13. 1 + \frac{-54}{v} = -5$$

$$4. \frac{-15}{a} - 5 = -2$$

$$9. 1 - \frac{80}{z} = 9$$

$$14. \frac{-8}{x} - (-10) = 18$$

$$5. 7 - \frac{-28}{z} = 3$$

$$10. -8 + \frac{28}{a} = -4$$

$$15. 2 + \frac{32}{z} = -6$$

Simple Linear Equations (G) Answers

Solve for each variable.

$$1. 2 - \frac{64}{u} = 10$$
$$u = -8$$

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

$$11. \frac{-48}{v} - 1 = 5$$
$$v = -8$$

$$2. 9 - \frac{63}{z} = 16$$
$$z = -9$$

$$7. 7 + \frac{-50}{x} = 12$$
$$x = -10$$

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

$$3. -2 + \frac{-64}{b} = -10$$
$$b = 8$$

$$8. 9 + \frac{28}{b} = 5$$
$$b = -7$$

$$13. 1 + \frac{-54}{v} = -5$$
$$v = 9$$

$$4. \frac{-15}{a} - 5 = -2$$
$$a = -5$$

$$9. 1 - \frac{80}{z} = 9$$
$$z = -10$$

$$14. \frac{-8}{x} - (-10) = 18$$
$$x = -1$$

$$5. 7 - \frac{-28}{z} = 3$$
$$z = -7$$

$$10. -8 + \frac{28}{a} = -4$$
$$a = 7$$

$$15. 2 + \frac{32}{z} = -6$$
$$z = -4$$

Simple Linear Equations (H)

Solve for each variable.

1. $-9 + \frac{-27}{y} = -6$

6. $\frac{45}{u} + 2 = 11$

11. $\frac{-16}{z} - 7 = -5$

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

7. $\frac{-18}{x} + (-6) = -15$

12. $\frac{72}{u} + (-7) = -16$

3. $\frac{-70}{b} - 6 = 1$

8. $\frac{-40}{x} - 10 = -15$

13. $\frac{5}{v} + (-4) = 1$

4. $\frac{-21}{b} - (-6) = 9$

9. $\frac{28}{x} + 7 = 14$

14. $\frac{-24}{v} - 6 = 0$

5. $\frac{-42}{z} - 2 = -9$

10. $\frac{72}{x} - 5 = 3$

15. $\frac{-21}{b} + 3 = 6$

Simple Linear Equations (H) Answers

Solve for each variable.

$$1. -9 + \frac{-27}{y} = -6$$
$$y = -9$$

$$6. \frac{45}{u} + 2 = 11$$
$$u = 5$$

$$11. \frac{-16}{z} - 7 = -5$$
$$z = -8$$

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

$$7. \frac{-18}{x} + (-6) = -15$$
$$x = 2$$

$$12. \frac{72}{u} + (-7) = -16$$
$$u = -8$$

$$3. \frac{-70}{b} - 6 = 1$$
$$b = -10$$

$$8. \frac{-40}{x} - 10 = -15$$
$$x = 8$$

$$13. \frac{5}{v} + (-4) = 1$$
$$v = 1$$

$$4. \frac{-21}{b} - (-6) = 9$$
$$b = -7$$

$$9. \frac{28}{x} + 7 = 14$$
$$x = 4$$

$$14. \frac{-24}{v} - 6 = 0$$
$$v = -4$$

$$5. \frac{-42}{z} - 2 = -9$$
$$z = 6$$

$$10. \frac{72}{x} - 5 = 3$$
$$x = 9$$

$$15. \frac{-21}{b} + 3 = 6$$
$$b = -7$$

Simple Linear Equations (I)

Solve for each variable.

1. $\frac{21}{x} - (-1) = 8$

6. $\frac{-24}{a} - 3 = 0$

11. $-3 + \frac{24}{a} = 1$

2. $1 + \frac{24}{u} = -2$

7. $\frac{-30}{c} - (-2) = 7$

12. $5 - \frac{18}{u} = 14$

3. $9 + \frac{15}{v} = 4$

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

13. $\frac{36}{v} - (-2) = 6$

4. $\frac{-18}{v} - 7 = -5$

9. $5 + \frac{18}{y} = -4$

14. $5 + \frac{-60}{x} = -1$

5. $\frac{-20}{b} + 9 = 14$

10. $\frac{30}{x} - 5 = 1$

15. $-10 - \frac{-20}{u} = -14$

Simple Linear Equations (I) Answers

Solve for each variable.

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

$$6. \frac{-24}{a} - 3 = 0$$
$$a = -8$$

$$11. -3 + \frac{24}{a} = 1$$
$$a = 6$$

$$2. 1 + \frac{24}{u} = -2$$
$$u = -8$$

$$7. \frac{-30}{c} - (-2) = 7$$
$$c = -6$$

$$12. 5 - \frac{18}{u} = 14$$
$$u = -2$$

$$3. 9 + \frac{15}{v} = 4$$
$$v = -3$$

$$8. 5 + \frac{8}{u} = -3$$
$$u = -1$$

$$13. \frac{36}{v} - (-2) = 6$$
$$v = 9$$

$$4. \frac{-18}{v} - 7 = -5$$
$$v = -9$$

$$9. 5 + \frac{18}{y} = -4$$
$$y = -2$$

$$14. 5 + \frac{-60}{x} = -1$$
$$x = 10$$

$$5. \frac{-20}{b} + 9 = 14$$
$$b = -4$$

$$10. \frac{30}{x} - 5 = 1$$
$$x = 5$$

$$15. -10 - \frac{-20}{u} = -14$$
$$u = -5$$

Simple Linear Equations (J)

Solve for each variable.

1. $8 - \frac{54}{y} = 17$

6. $5 - \frac{36}{u} = 9$

11. $\frac{64}{c} - 3 = 5$

2. $10 - \frac{-70}{c} = 17$

7. $9 - \frac{7}{z} = 2$

12. $\frac{27}{x} + 6 = 15$

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

8. $-9 + \frac{-81}{y} = -18$

13. $1 - \frac{9}{v} = 10$

4. $7 - \frac{20}{b} = 3$

9. $9 + \frac{16}{u} = 13$

14. $\frac{40}{u} + 4 = 12$

5. $9 + \frac{64}{x} = 17$

10. $\frac{-15}{a} + (-4) = -7$

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

Simple Linear Equations (J) Answers

Solve for each variable.

$$1. 8 - \frac{54}{y} = 17$$
$$y = -6$$

$$6. 5 - \frac{36}{u} = 9$$
$$u = -9$$

$$11. \frac{64}{c} - 3 = 5$$
$$c = 8$$

$$2. 10 - \frac{-70}{c} = 17$$
$$c = 10$$

$$7. 9 - \frac{7}{z} = 2$$
$$z = 1$$

$$12. \frac{27}{x} + 6 = 15$$
$$x = 3$$

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

$$8. -9 + \frac{-81}{y} = -18$$
$$y = 9$$

$$13. 1 - \frac{9}{v} = 10$$
$$v = -1$$

$$4. 7 - \frac{20}{b} = 3$$
$$b = 5$$

$$9. 9 + \frac{16}{u} = 13$$
$$u = 4$$

$$14. \frac{40}{u} + 4 = 12$$
$$u = 5$$

$$5. 9 + \frac{64}{x} = 17$$
$$x = 8$$

$$10. \frac{-15}{a} + (-4) = -7$$
$$a = 5$$

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