Simple Linear Equations (A)

Solve for each variable.

1. $8-\frac{z}{2}=5$
2. $\frac{u}{4}+5=7$
3. $\frac{y}{7}+8=13$
4. $\frac{x}{4}+5=9$
5. $1+\frac{b}{8}=8$
6. $\frac{v}{3}+3=7$
7. $\frac{c}{5}-3=3$
8. $2+\frac{b}{3}=7$
9. $2+\frac{y}{9}=11$
10. $\frac{u}{5}+10=17$
11. $\frac{y}{2}+8=15$
12. $\frac{z}{7}+10=12$
13. $8+\frac{a}{5}=12$
14. $6+\frac{c}{9}=12$
15. $\frac{y}{2}+8=12$

Simple Linear Equations (A) Answers

Solve for each variable.

1. $8-\frac{z}{2}=5$
   $z=6$

2. $\frac{u}{4}+5=7$
   $u=8$

3. $\frac{y}{7}+8=13$
   $y=35$

4. $\frac{x}{4}+5=9$
   $x=16$

5. $1+\frac{b}{8}=8$
   $b=56$

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

7. $\frac{c}{5}-3=3$
   $c=30$

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

9. $2+\frac{y}{9}=11$
   $y=81$

10. $\frac{u}{5}+10=17$
    $u=35$

11. $\frac{y}{2}+8=15$
    $y=14$

12. $\frac{z}{7}+10=12$
    $z=14$

13. $8+\frac{a}{5}=12$
    $a=20$

14. $6+\frac{c}{9}=12$
    $c=54$

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

Simple Linear Equations (B)

Solve for each variable.

1. $7-\frac{v}{4}=3$
2. $2+\frac{u}{5}=6$
3. $5+\frac{z}{6}=12$
4. $10+\frac{v}{6}=16$
5. $\frac{v}{6}-1=3$
6. $8-\frac{a}{9}=5$
7. $7+\frac{z}{4}=9$
8. $4+\frac{x}{4}=9$
9. $2+\frac{v}{8}=11$
10. $2+\frac{u}{2}=5$
11. $\frac{y}{2}+4=6$
12. $8+\frac{z}{9}=11$
13. $\frac{u}{2}-1=5$
14. $2+\frac{y}{8}=11$
15. $9-\frac{y}{3}=1$

Simple Linear Equations (B) Answers

Solve for each variable.

1. $7-\frac{v}{4}=3$
   $v=16$

2. $2+\frac{u}{5}=6$
   $u=20$

3. $5+\frac{z}{6}=12$
   $z=42$

4. $10+\frac{v}{6}=16$
   $v=36$

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

6. $8-\frac{a}{9}=5$
   $a=27$

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

8. $4+\frac{x}{4}=9$
   $x=20$

9. $2+\frac{v}{8}=11$
   $v=72$

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

11. $\frac{y}{2}+4=6$
    $y=4$

12. $8+\frac{z}{9}=11$
    $z=27$

13. $\frac{u}{2}-1=5$
    $u=12$

14. $2+\frac{y}{8}=11$
    $y=72$

15. $9-\frac{y}{3}=1$
    $y=24$

Simple Linear Equations (C)

Solve for each variable.

1. $\frac{b}{7}+1=6$

2. $\frac{x}{4}-4=5$

3. $\frac{b}{6}+5=13$

4. $9-\frac{c}{2}=5$

5. $4+\frac{z}{6}=12$

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

7. $\frac{z}{5}+10=17$

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

9. $\frac{u}{6}+9=18$

10. $\frac{c}{9}+10=18$

11. $\frac{a}{3}-2=1$

12. $2+\frac{u}{8}=10$

13. $6+\frac{c}{7}=8$

14. $10-\frac{z}{2}=7$

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

Simple Linear Equations (C) Answers

Solve for each variable.

1. $\frac{b}{7}+1=6$
   $b=35$

2. $\frac{x}{4}-4=5$
   $x=36$

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

4. $9-\frac{c}{2}=5$
   $c=8$

5. $4+\frac{z}{6}=12$
   $z=48$

6. $\frac{z}{7}+4=10$
   $z=42$

7. $\frac{z}{5}+10=17$
   $z=35$

8. $\frac{u}{6}-9=0$
   $u=54$

9. $\frac{u}{6}+9=18$
   $u=54$

10. $\frac{c}{9}+10=18$
    $c=72$

11. $\frac{a}{3}-2=1$
    $a=9$

12. $2+\frac{u}{8}=10$
    $u=64$

13. $6+\frac{c}{7}=8$
    $c=14$

14. $10-\frac{z}{2}=7$
    $z=6$

15. $\frac{x}{4}+10=13$
    $x=12$

Simple Linear Equations (D)

Solve for each variable.

1. $6+\frac{y}{6}=10$

2. $\frac{x}{8}+10=17$

3. $\frac{a}{6}-6=2$

4. $1+\frac{y}{7}=8$

5. $2+\frac{y}{8}=11$

6. $7+\frac{c}{3}=13$

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

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

9. $\frac{c}{9}+7=10$

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

11. $\frac{z}{6}+1=6$

12. $8+\frac{v}{9}=11$

13. $6-\frac{u}{9}=2$

14. $3+\frac{a}{6}=5$

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

Simple Linear Equations (D) Answers

Solve for each variable.

1. $6+\frac{y}{6}=10$
   $y=24$

2. $\frac{x}{8}+10=17$
   $x=56$

3. $\frac{a}{6}-6=2$
   $a=48$

4. $1+\frac{y}{7}=8$
   $y=49$

5. $2+\frac{y}{8}=11$
   $y=72$

6. $7+\frac{c}{3}=13$
   $c=18$

7. $1+\frac{z}{4}=7$
   $z=24$

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

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

10. $\frac{b}{6}+6=8$
    $b=12$

11. $\frac{z}{6}+1=6$
    $z=30$

12. $8+\frac{v}{9}=11$
    $v=27$

13. $6-\frac{u}{9}=2$
    $u=36$

14. $3+\frac{a}{6}=5$
    $a=12$

15. $1+\frac{v}{4}=7$
    $v=24$

Simple Linear Equations (E)

Solve for each variable.

1. $\frac{b}{8} - 7 = 0$

2. $\frac{b}{8} - 5 = 0$

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

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

5. $\frac{z}{5} + 2 = 9$

6. $\frac{u}{3} + 2 = 4$

7. $7 + \frac{b}{9} = 13$

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

9. $\frac{v}{8} - 4 = 1$

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

11. $\frac{v}{3} + 2 = 11$

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

13. $\frac{z}{2} - 5 = 2$

14. $9 + \frac{z}{5} = 18$

15. $7 - \frac{z}{7} = 1$

Simple Linear Equations (E) Answers

Solve for each variable.

1. $\frac{b}{8} - 7 = 0$
   $b = 56$

2. $\frac{b}{8} - 5 = 0$
   $b = 40$

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

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

5. $\frac{z}{5} + 2 = 9$
   $z = 35$

6. $\frac{u}{3} + 2 = 4$
   $u = 6$

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

8. $8 - \frac{y}{8} = 4$
   $y = 32$

9. $\frac{v}{8} - 4 = 1$
   $v = 40$

10. $\frac{c}{4} - 1 = 1$
    $c = 8$

11. $\frac{v}{3} + 2 = 11$
    $v = 27$

12. $\frac{v}{6} - 3 = 6$
    $v = 54$

13. $\frac{z}{2} - 5 = 2$
    $z = 14$

14. $9 + \frac{z}{5} = 18$
    $z = 45$

15. $7 - \frac{z}{7} = 1$
    $z = 42$

Simple Linear Equations (F)

Solve for each variable.

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

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

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

4. $\frac{u}{4} - 1 = 7$

5. $\frac{a}{3} + 4 = 6$

6. $6 + \frac{u}{8} = 11$

7. $\frac{u}{7} + 4 = 13$

8. $\frac{u}{9} - 1 = 4$

9. $8 - \frac{b}{7} = 2$

10. $\frac{u}{4} + 8 = 11$

11. $\frac{y}{2} - 2 = 2$

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

13. $8 - \frac{b}{7} = 3$

14. $\frac{z}{6} + 7 = 9$

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

Simple Linear Equations (F) Answers

Solve for each variable.

1. $\frac{a}{5} - 4 = 3$
   $a = 35$

2. $7 + \frac{x}{4} = 15$
   $x = 32$

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

4. $\frac{u}{4} - 1 = 7$
   $u = 32$

5. $\frac{a}{3} + 4 = 6$
   $a = 6$

6. $6 + \frac{u}{8} = 11$
   $u = 40$

7. $\frac{u}{7} + 4 = 13$
   $u = 63$

8. $\frac{u}{9} - 1 = 4$
   $u = 45$

9. $8 - \frac{b}{7} = 2$
   $b = 42$

10. $\frac{u}{4} + 8 = 11$
    $u = 12$

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

12. $\frac{u}{6} - 1 = 2$
    $u = 18$

13. $8 - \frac{b}{7} = 3$
    $b = 35$

14. $\frac{z}{6} + 7 = 9$
    $z = 12$

15. $9 + \frac{y}{2} = 14$
    $y = 10$

Simple Linear Equations (G)

Solve for each variable.

1. $5+\frac{b}{9}=14$
2. $5-\frac{c}{5}=1$
3. $\frac{x}{3}+1=6$
4. $\frac{c}{2}+3=12$
5. $8-\frac{c}{2}=1$
6. $\frac{u}{6}+4=6$
7. $\frac{u}{3}+6=10$
8. $\frac{b}{4}-7=2$
9. $6-\frac{v}{2}=2$
10. $7-\frac{y}{7}=2$
11. $6-\frac{u}{9}=0$
12. $7+\frac{y}{7}=12$
13. $5+\frac{v}{6}=11$
14. $\frac{c}{6}+10=12$
15. $7+\frac{a}{9}=11$

Simple Linear Equations (G) Answers

Solve for each variable.

1. $5+\frac{b}{9}=14$
   $b=81$

2. $5-\frac{c}{5}=1$
   $c=20$

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

4. $\frac{c}{2}+3=12$
   $c=18$

5. $8-\frac{c}{2}=1$
   $c=14$

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

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

8. $\frac{b}{4}-7=2$
   $b=36$

9. $6-\frac{v}{2}=2$
   $v=8$

10. $7-\frac{y}{7}=2$
    $y=35$

11. $6-\frac{u}{9}=0$
    $u=54$

12. $7+\frac{y}{7}=12$
    $y=35$

13. $5+\frac{v}{6}=11$
    $v=36$

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

15. $7+\frac{a}{9}=11$
    $a=36$

Simple Linear Equations (H)

Solve for each variable.

1. $\frac{c}{9}+9=15$

2. $\frac{x}{4}+2=5$

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

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

5. $\frac{a}{7}+6=14$

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

7. $\frac{v}{8}-4=0$

8. $8+\frac{x}{4}=16$

9. $\frac{b}{4}+4=13$

10. $\frac{u}{7}+9=17$

11. $\frac{b}{8}+9=18$

12. $4+\frac{a}{5}=13$

13. $\frac{u}{3}-2=4$

14. $\frac{a}{9}-6=0$

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

Simple Linear Equations (H) Answers

Solve for each variable.

1. $\frac{c}{9}+9=15$
   $c=54$

2. $\frac{x}{4}+2=5$
   $x=12$

3. $10+\frac{b}{2}=12$
   $b=4$

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

5. $\frac{a}{7}+6=14$
   $a=56$

6. $5-\frac{y}{2}=3$
   $y=4$

7. $\frac{v}{8}-4=0$
   $v=32$

8. $8+\frac{x}{4}=16$
   $x=32$

9. $\frac{b}{4}+4=13$
   $b=36$

10. $\frac{u}{7}+9=17$
    $u=56$

11. $\frac{b}{8}+9=18$
    $b=72$

12. $4+\frac{a}{5}=13$
    $a=45$

13. $\frac{u}{3}-2=4$
    $u=18$

14. $\frac{a}{9}-6=0$
    $a=54$

15. $7+\frac{x}{2}=11$
    $x=8$

Simple Linear Equations (I)

Solve for each variable.

1. $7+\frac{z}{8}=13$
2. $7+\frac{u}{6}=15$
3. $7+\frac{u}{3}=15$
4. $9-\frac{u}{9}=5$
5. $\frac{b}{3}+10=15$
6. $\frac{z}{2}+8=12$
7. $\frac{z}{8}-7=2$
8. $10+\frac{u}{2}=13$
9. $4-\frac{z}{4}=2$
10. $4+\frac{a}{5}=11$
11. $6+\frac{a}{3}=11$
12. $8+\frac{z}{8}=15$
13. $\frac{z}{9}-7=1$
14. $\frac{x}{8}+7=9$
15. $\frac{a}{5}+8=12$

Simple Linear Equations (I) Answers

Solve for each variable.

1. $7+\frac{z}{8}=13$
   $z=48$

2. $7+\frac{u}{6}=15$
   $u=48$

3. $7+\frac{u}{3}=15$
   $u=24$

4. $9-\frac{u}{9}=5$
   $u=36$

5. $\frac{b}{3}+10=15$
   $b=15$

6. $\frac{z}{2}+8=12$
   $z=8$

7. $\frac{z}{8}-7=2$
   $z=72$

8. $10+\frac{u}{2}=13$
   $u=6$

9. $4-\frac{z}{4}=2$
   $z=8$

10. $4+\frac{a}{5}=11$
    $a=35$

11. $6+\frac{a}{3}=11$
    $a=15$

12. $8+\frac{z}{8}=15$
    $z=56$

13. $\frac{z}{9}-7=1$
    $z=72$

14. $\frac{x}{8}+7=9$
    $x=16$

15. $\frac{a}{5}+8=12$
    $a=20$

Simple Linear Equations (J)

Solve for each variable.

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

2. $\frac{z}{3}+4=13$

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

4. $\frac{a}{3}+9=14$

5. $5+\frac{u}{8}=14$

6. $5+\frac{c}{6}=14$

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

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

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

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

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

12. $9-\frac{a}{2}=4$

13. $\frac{a}{9}-2=6$

14. $8-\frac{u}{3}=3$

15. $6+\frac{v}{6}=12$

Simple Linear Equations (J) Answers

Solve for each variable.

1. $\frac{z}{5}+3=5$
   $z=10$

2. $\frac{z}{3}+4=13$
   $z=27$

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

4. $\frac{a}{3}+9=14$
   $a=15$

5. $5+\frac{u}{8}=14$
   $u=72$

6. $5+\frac{c}{6}=14$
   $c=54$

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

8. $\frac{y}{8}-6=3$
   $y=72$

9. $\frac{u}{5}+7=9$
   $u=10$

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

11. $\frac{z}{8}-1=1$
    $z=16$

12. $9-\frac{a}{2}=4$
    $a=10$

13. $\frac{a}{9}-2=6$
    $a=72$

14. $8-\frac{u}{3}=3$
    $u=15$

15. $6+\frac{v}{6}=12$
    $v=36$