

Unknown Variables in Equations (A)

Name: _____

Date: _____

Determine the value of each variable.

1. $9 \times n = 45$

2. $p = 24 \div 6$

3. $15 - x = 9$

4. $14 \div 7 = m$

5. $h \div 1 = 8$

6. $4 = v \div 6$

7. $48 = 8 \times b$

8. $y + 5 = 12$

9. $56 \div 8 = k$

10. $j \div 5 = 3$

11. $72 \div 8 = d$

12. $2 = 12 \div z$

13. $10 \div t = 5$

14. $2 = 1 \times a$

15. $3 = 8 - w$

16. $c = 7 + 2$

17. $r = 10 \div 5$

18. $f + 9 = 10$

19. $7 + g = 12$

20. $18 = s \times 6$

Unknown Variables in Equations (A) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $9 \times n = 45$

$n = 5$

2. $p = 24 \div 6$

$p = 4$

3. $15 - x = 9$

$x = 6$

4. $14 \div 7 = m$

$m = 2$

5. $h \div 1 = 8$

$h = 8$

6. $4 = v \div 6$

$v = 24$

7. $48 = 8 \times b$

$b = 6$

8. $y + 5 = 12$

$y = 7$

9. $56 \div 8 = k$

$k = 7$

10. $j \div 5 = 3$

$j = 15$

11. $72 \div 8 = d$

$d = 9$

12. $2 = 12 \div z$

$z = 6$

13. $10 \div t = 5$

$t = 2$

14. $2 = 1 \times a$

$a = 2$

15. $3 = 8 - w$

$w = 5$

16. $c = 7 + 2$

$c = 9$

17. $r = 10 \div 5$

$r = 2$

18. $f + 9 = 10$

$f = 1$

19. $7 + g = 12$

$g = 5$

20. $18 = s \times 6$

$s = 3$

Unknown Variables in Equations (B)

Name: _____

Date: _____

Determine the value of each variable.

1. $4 = p \div 4$

2. $5 = 4 + z$

3. $a = 3 + 1$

4. $j = 12 \div 6$

5. $1 = v - 9$

6. $3 + 8 = m$

7. $5 \times f = 10$

8. $17 - 8 = s$

9. $r - 3 = 9$

10. $k = 4 + 7$

11. $16 = 8 \times g$

12. $w = 35 \div 5$

13. $9 = y - 2$

14. $7 + h = 14$

15. $b = 5 + 4$

16. $t = 10 - 3$

17. $8 - x = 1$

18. $2 \times c = 4$

19. $n + 3 = 10$

20. $2 + 4 = d$

Unknown Variables in Equations (B) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $4 = p \div 4$

$p = 16$

2. $5 = 4 + z$

$z = 1$

3. $a = 3 + 1$

$a = 4$

4. $j = 12 \div 6$

$j = 2$

5. $1 = v - 9$

$v = 10$

6. $3 + 8 = m$

$m = 11$

7. $5 \times f = 10$

$f = 2$

8. $17 - 8 = s$

$s = 9$

9. $r - 3 = 9$

$r = 12$

10. $k = 4 + 7$

$k = 11$

11. $16 = 8 \times g$

$g = 2$

12. $w = 35 \div 5$

$w = 7$

13. $9 = y - 2$

$y = 11$

14. $7 + h = 14$

$h = 7$

15. $b = 5 + 4$

$b = 9$

16. $t = 10 - 3$

$t = 7$

17. $8 - x = 1$

$x = 7$

18. $2 \times c = 4$

$c = 2$

19. $n + 3 = 10$

$n = 7$

20. $2 + 4 = d$

$d = 6$

Unknown Variables in Equations (C)

Name: _____

Date: _____

Determine the value of each variable.

1. $t = 1 \div 1$

2. $c \times 2 = 4$

3. $2 \times 7 = w$

4. $y = 4 + 8$

5. $4 + j = 12$

6. $b = 6 - 4$

7. $s = 10 - 7$

8. $9 = 45 \div f$

9. $r - 1 = 9$

10. $6 - 2 = v$

11. $11 = 7 + d$

12. $8 - 6 = p$

13. $k \div 9 = 8$

14. $z \div 7 = 7$

15. $n = 8 + 7$

16. $9 \times x = 63$

17. $15 = 5 \times g$

18. $m = 6 - 4$

19. $h + 7 = 9$

20. $3 = a \div 5$

Unknown Variables in Equations (C) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $t = 1 \div 1$

$t = 1$

2. $c \times 2 = 4$

$c = 2$

3. $2 \times 7 = w$

$w = 14$

4. $y = 4 + 8$

$y = 12$

5. $4 + j = 12$

$j = 8$

6. $b = 6 - 4$

$b = 2$

7. $s = 10 - 7$

$s = 3$

8. $9 = 45 \div f$

$f = 5$

9. $r - 1 = 9$

$r = 10$

10. $6 - 2 = v$

$v = 4$

11. $11 = 7 + d$

$d = 4$

12. $8 - 6 = p$

$p = 2$

13. $k \div 9 = 8$

$k = 72$

14. $z \div 7 = 7$

$z = 49$

15. $n = 8 + 7$

$n = 15$

16. $9 \times x = 63$

$x = 7$

17. $15 = 5 \times g$

$g = 3$

18. $m = 6 - 4$

$m = 2$

19. $h + 7 = 9$

$h = 2$

20. $3 = a \div 5$

$a = 15$

Unknown Variables in Equations (D)

Name: _____

Date: _____

Determine the value of each variable.

1. $v = 9 \times 2$

2. $9 = b - 7$

3. $12 - z = 8$

4. $r \div 3 = 3$

5. $12 - 5 = t$

6. $9 = k - 4$

7. $c \div 5 = 4$

8. $16 = g + 7$

9. $y = 3 + 5$

10. $m = 2 \times 1$

11. $n = 56 \div 7$

12. $20 = f \times 5$

13. $36 \div d = 4$

14. $6 \times h = 48$

15. $6 = 6 \times x$

16. $11 - 6 = p$

17. $1 + 8 = s$

18. $16 - 8 = a$

19. $8 \div 4 = j$

20. $5 \times 7 = w$

Unknown Variables in Equations (D) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $v = 9 \times 2$

$v = 18$

2. $9 = b - 7$

$b = 16$

3. $12 - z = 8$

$z = 4$

4. $r \div 3 = 3$

$r = 9$

5. $12 - 5 = t$

$t = 7$

6. $9 = k - 4$

$k = 13$

7. $c \div 5 = 4$

$c = 20$

8. $16 = g + 7$

$g = 9$

9. $y = 3 + 5$

$y = 8$

10. $m = 2 \times 1$

$m = 2$

11. $n = 56 \div 7$

$n = 8$

12. $20 = f \times 5$

$f = 4$

13. $36 \div d = 4$

$d = 9$

14. $6 \times h = 48$

$h = 8$

15. $6 = 6 \times x$

$x = 1$

16. $11 - 6 = p$

$p = 5$

17. $1 + 8 = s$

$s = 9$

18. $16 - 8 = a$

$a = 8$

19. $8 \div 4 = j$

$j = 2$

20. $5 \times 7 = w$

$w = 35$

Unknown Variables in Equations (E)

Name: _____

Date: _____

Determine the value of each variable.

1. $4 = 1 + f$

2. $54 \div x = 9$

3. $r - 6 = 6$

4. $a \times 5 = 5$

5. $t - 8 = 8$

6. $11 - v = 9$

7. $5 = 40 \div d$

8. $2 \times y = 8$

9. $n = 4 \times 7$

10. $z = 7 \div 1$

11. $b + 9 = 14$

12. $5 = j \div 6$

13. $3 + h = 4$

14. $8 \times 3 = w$

15. $4 \times 3 = p$

16. $18 \div k = 9$

17. $8 \times 3 = c$

18. $g - 2 = 2$

19. $15 = 3 \times m$

20. $s = 5 + 7$

Unknown Variables in Equations (E) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $4 = 1 + f$

$f = 3$

2. $54 \div x = 9$

$x = 6$

3. $r - 6 = 6$

$r = 12$

4. $a \times 5 = 5$

$a = 1$

5. $t - 8 = 8$

$t = 16$

6. $11 - v = 9$

$v = 2$

7. $5 = 40 \div d$

$d = 8$

8. $2 \times y = 8$

$y = 4$

9. $n = 4 \times 7$

$n = 28$

10. $z = 7 \div 1$

$z = 7$

11. $b + 9 = 14$

$b = 5$

12. $5 = j \div 6$

$j = 30$

13. $3 + h = 4$

$h = 1$

14. $8 \times 3 = w$

$w = 24$

15. $4 \times 3 = p$

$p = 12$

16. $18 \div k = 9$

$k = 2$

17. $8 \times 3 = c$

$c = 24$

18. $g - 2 = 2$

$g = 4$

19. $15 = 3 \times m$

$m = 5$

20. $s = 5 + 7$

$s = 12$

Unknown Variables in Equations (F)

Name: _____

Date: _____

Determine the value of each variable.

1. $7 \div 1 = k$

2. $3 = h \div 3$

3. $c = 6 - 3$

4. $1 + d = 4$

5. $49 = g \times 7$

6. $f \times 6 = 18$

7. $42 \div 6 = n$

8. $72 = p \times 8$

9. $r = 9 \times 8$

10. $m - 5 = 6$

11. $11 - z = 9$

12. $3 = 6 - w$

13. $42 = 7 \times v$

14. $1 = 6 - a$

15. $t = 21 \div 7$

16. $2 \times y = 10$

17. $3 = b - 5$

18. $3 + 6 = j$

19. $1 \times x = 1$

20. $s + 3 = 5$

Unknown Variables in Equations (F) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $7 \div 1 = k$

$k = 7$

2. $3 = h \div 3$

$h = 9$

3. $c = 6 - 3$

$c = 3$

4. $1 + d = 4$

$d = 3$

5. $49 = g \times 7$

$g = 7$

6. $f \times 6 = 18$

$f = 3$

7. $42 \div 6 = n$

$n = 7$

8. $72 = p \times 8$

$p = 9$

9. $r = 9 \times 8$

$r = 72$

10. $m - 5 = 6$

$m = 11$

11. $11 - z = 9$

$z = 2$

12. $3 = 6 - w$

$w = 3$

13. $42 = 7 \times v$

$v = 6$

14. $1 = 6 - a$

$a = 5$

15. $t = 21 \div 7$

$t = 3$

16. $2 \times y = 10$

$y = 5$

17. $3 = b - 5$

$b = 8$

18. $3 + 6 = j$

$j = 9$

19. $1 \times x = 1$

$x = 1$

20. $s + 3 = 5$

$s = 2$

Unknown Variables in Equations (G)

Name: _____

Date: _____

Determine the value of each variable.

1. $h - 5 = 4$

2. $m - 8 = 2$

3. $j = 2 + 9$

4. $v = 45 \div 9$

5. $4 = c - 9$

6. $10 = 5 + f$

7. $15 \div t = 5$

8. $k + 3 = 6$

9. $9 = g \div 4$

10. $z - 5 = 7$

11. $4 = n \times 2$

12. $4 = a + 2$

13. $6 + 4 = y$

14. $9 = b \div 8$

15. $p - 2 = 3$

16. $6 - 2 = w$

17. $x = 7 + 8$

18. $d - 1 = 8$

19. $8 \div s = 4$

20. $r \times 5 = 15$

Unknown Variables in Equations (G) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $h - 5 = 4$

$h = 9$

2. $m - 8 = 2$

$m = 10$

3. $j = 2 + 9$

$j = 11$

4. $v = 45 \div 9$

$v = 5$

5. $4 = c - 9$

$c = 13$

6. $10 = 5 + f$

$f = 5$

7. $15 \div t = 5$

$t = 3$

8. $k + 3 = 6$

$k = 3$

9. $9 = g \div 4$

$g = 36$

10. $z - 5 = 7$

$z = 12$

11. $4 = n \times 2$

$n = 2$

12. $4 = a + 2$

$a = 2$

13. $6 + 4 = y$

$y = 10$

14. $9 = b \div 8$

$b = 72$

15. $p - 2 = 3$

$p = 5$

16. $6 - 2 = w$

$w = 4$

17. $x = 7 + 8$

$x = 15$

18. $d - 1 = 8$

$d = 9$

19. $8 \div s = 4$

$s = 2$

20. $r \times 5 = 15$

$r = 3$

Unknown Variables in Equations (H)

Name: _____

Date: _____

Determine the value of each variable.

1. $8 - 5 = t$

2. $18 = g \times 3$

3. $21 \div 7 = j$

4. $12 = 9 + b$

5. $n - 4 = 2$

6. $3 + x = 11$

7. $10 = s + 5$

8. $r = 4 \times 3$

9. $12 \div 2 = p$

10. $7 + 2 = v$

11. $7 - f = 6$

12. $c = 12 \div 2$

13. $7 = z \div 1$

14. $1 = d \div 4$

15. $m \times 9 = 18$

16. $5 = w \div 4$

17. $h = 3 - 1$

18. $k + 3 = 5$

19. $8 = a \div 7$

20. $3 = y - 2$

Unknown Variables in Equations (H) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $8 - 5 = t$

$t = 3$

2. $18 = g \times 3$

$g = 6$

3. $21 \div 7 = j$

$j = 3$

4. $12 = 9 + b$

$b = 3$

5. $n - 4 = 2$

$n = 6$

6. $3 + x = 11$

$x = 8$

7. $10 = s + 5$

$s = 5$

8. $r = 4 \times 3$

$r = 12$

9. $12 \div 2 = p$

$p = 6$

10. $7 + 2 = v$

$v = 9$

11. $7 - f = 6$

$f = 1$

12. $c = 12 \div 2$

$c = 6$

13. $7 = z \div 1$

$z = 7$

14. $1 = d \div 4$

$d = 4$

15. $m \times 9 = 18$

$m = 2$

16. $5 = w \div 4$

$w = 20$

17. $h = 3 - 1$

$h = 2$

18. $k + 3 = 5$

$k = 2$

19. $8 = a \div 7$

$a = 56$

20. $3 = y - 2$

$y = 5$

Unknown Variables in Equations (I)

Name: _____

Date: _____

Determine the value of each variable.

1. $8 + s = 17$

2. $n - 6 = 2$

3. $r \div 4 = 5$

4. $y \times 2 = 14$

5. $d - 8 = 2$

6. $5 \times m = 45$

7. $g - 3 = 7$

8. $c = 45 \div 5$

9. $9 = 9 \times b$

10. $4 + 5 = j$

11. $f \times 9 = 63$

12. $t = 8 + 8$

13. $7 + h = 9$

14. $1 = z \div 6$

15. $9 = v \div 7$

16. $21 \div 7 = x$

17. $a = 9 + 3$

18. $14 = p \times 7$

19. $w = 21 \div 7$

20. $27 = k \times 3$

Unknown Variables in Equations (I) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $8 + s = 17$

$s = 9$

2. $n - 6 = 2$

$n = 8$

3. $r \div 4 = 5$

$r = 20$

4. $y \times 2 = 14$

$y = 7$

5. $d - 8 = 2$

$d = 10$

6. $5 \times m = 45$

$m = 9$

7. $g - 3 = 7$

$g = 10$

8. $c = 45 \div 5$

$c = 9$

9. $9 = 9 \times b$

$b = 1$

10. $4 + 5 = j$

$j = 9$

11. $f \times 9 = 63$

$f = 7$

12. $t = 8 + 8$

$t = 16$

13. $7 + h = 9$

$h = 2$

14. $1 = z \div 6$

$z = 6$

15. $9 = v \div 7$

$v = 63$

16. $21 \div 7 = x$

$x = 3$

17. $a = 9 + 3$

$a = 12$

18. $14 = p \times 7$

$p = 2$

19. $w = 21 \div 7$

$w = 3$

20. $27 = k \times 3$

$k = 9$

Unknown Variables in Equations (J)

Name: _____

Date: _____

Determine the value of each variable.

1. $9 = 10 - t$

2. $p = 15 - 8$

3. $1 \times s = 7$

4. $z = 5 + 6$

5. $15 - 7 = g$

6. $j + 8 = 12$

7. $w \times 5 = 10$

8. $v = 8 - 5$

9. $n = 14 - 5$

10. $3 = h \div 8$

11. $12 = 8 + y$

12. $6 + 5 = k$

13. $a \times 5 = 20$

14. $6 + 5 = b$

15. $18 = d \times 6$

16. $r = 1 \times 1$

17. $1 = 2 - c$

18. $f \times 1 = 2$

19. $4 \div m = 1$

20. $2 + 7 = x$

Unknown Variables in Equations (J) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $9 = 10 - t$

$t = 1$

2. $p = 15 - 8$

$p = 7$

3. $1 \times s = 7$

$s = 7$

4. $z = 5 + 6$

$z = 11$

5. $15 - 7 = g$

$g = 8$

6. $j + 8 = 12$

$j = 4$

7. $w \times 5 = 10$

$w = 2$

8. $v = 8 - 5$

$v = 3$

9. $n = 14 - 5$

$n = 9$

10. $3 = h \div 8$

$h = 24$

11. $12 = 8 + y$

$y = 4$

12. $6 + 5 = k$

$k = 11$

13. $a \times 5 = 20$

$a = 4$

14. $6 + 5 = b$

$b = 11$

15. $18 = d \times 6$

$d = 3$

16. $r = 1 \times 1$

$r = 1$

17. $1 = 2 - c$

$c = 1$

18. $f \times 1 = 2$

$f = 2$

19. $4 \div m = 1$

$m = 4$

20. $2 + 7 = x$

$x = 9$