

Unknown Variables in Equations (A)

Name: _____

Date: _____

Determine the value of each variable.

1. $c - 8 = 13$

2. $2 - f = 1$

3. $13 = 26 - s$

4. $j - 6 = 18$

5. $13 - 8 = d$

6. $17 - 8 = p$

7. $27 - 8 = n$

8. $t = 27 - 15$

9. $6 = m - 6$

10. $26 - h = 10$

11. $1 = y - 14$

12. $4 = 13 - k$

13. $a - 13 = 11$

14. $14 = g - 9$

15. $13 - x = 4$

16. $20 = 27 - z$

17. $10 = 11 - v$

18. $14 = w - 3$

19. $15 = 30 - r$

20. $36 - 17 = b$

Unknown Variables in Equations (A) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $c - 8 = 13$

$c = 21$

2. $2 - f = 1$

$f = 1$

3. $13 = 26 - s$

$s = 13$

4. $j - 6 = 18$

$j = 24$

5. $13 - 8 = d$

$d = 5$

6. $17 - 8 = p$

$p = 9$

7. $27 - 8 = n$

$n = 19$

8. $t = 27 - 15$

$t = 12$

9. $6 = m - 6$

$m = 12$

10. $26 - h = 10$

$h = 16$

11. $1 = y - 14$

$y = 15$

12. $4 = 13 - k$

$k = 9$

13. $a - 13 = 11$

$a = 24$

14. $14 = g - 9$

$g = 23$

15. $13 - x = 4$

$x = 9$

16. $20 = 27 - z$

$z = 7$

17. $10 = 11 - v$

$v = 1$

18. $14 = w - 3$

$w = 17$

19. $15 = 30 - r$

$r = 15$

20. $36 - 17 = b$

$b = 19$

Unknown Variables in Equations (B)

Name: _____

Date: _____

Determine the value of each variable.

1. $20 = f - 4$

2. $s = 17 - 2$

3. $g = 29 - 17$

4. $d = 31 - 17$

5. $36 - w = 19$

6. $n - 14 = 11$

7. $15 - h = 11$

8. $r - 13 = 10$

9. $a - 7 = 4$

10. $6 = v - 2$

11. $1 = t - 14$

12. $5 = 11 - x$

13. $34 - m = 15$

14. $35 - k = 15$

15. $c - 6 = 13$

16. $9 = 29 - p$

17. $7 = 18 - y$

18. $z = 12 - 6$

19. $23 - b = 19$

20. $j = 8 - 5$

Unknown Variables in Equations (B) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $20 = f - 4$

$f = 24$

2. $s = 17 - 2$

$s = 15$

3. $g = 29 - 17$

$g = 12$

4. $d = 31 - 17$

$d = 14$

5. $36 - w = 19$

$w = 17$

6. $n - 14 = 11$

$n = 25$

7. $15 - h = 11$

$h = 4$

8. $r - 13 = 10$

$r = 23$

9. $a - 7 = 4$

$a = 11$

10. $6 = v - 2$

$v = 8$

11. $1 = t - 14$

$t = 15$

12. $5 = 11 - x$

$x = 6$

13. $34 - m = 15$

$m = 19$

14. $35 - k = 15$

$k = 20$

15. $c - 6 = 13$

$c = 19$

16. $9 = 29 - p$

$p = 20$

17. $7 = 18 - y$

$y = 11$

18. $z = 12 - 6$

$z = 6$

19. $23 - b = 19$

$b = 4$

20. $j = 8 - 5$

$j = 3$

Unknown Variables in Equations (C)

Name: _____

Date: _____

Determine the value of each variable.

1. $r = 7 - 5$

2. $15 - 14 = y$

3. $20 - j = 6$

4. $z = 20 - 7$

5. $12 = m - 1$

6. $24 - 19 = x$

7. $18 = 27 - d$

8. $14 = f - 17$

9. $31 - 18 = h$

10. $1 = 9 - a$

11. $4 = n - 7$

12. $4 = c - 16$

13. $6 = s - 19$

14. $w = 13 - 7$

15. $1 = 14 - k$

16. $18 - 7 = t$

17. $b - 18 = 1$

18. $3 = 4 - p$

19. $33 - v = 19$

20. $g - 6 = 19$

Unknown Variables in Equations (C) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $r = 7 - 5$

$r = 2$

2. $15 - 14 = y$

$y = 1$

3. $20 - j = 6$

$j = 14$

4. $z = 20 - 7$

$z = 13$

5. $12 = m - 1$

$m = 13$

6. $24 - 19 = x$

$x = 5$

7. $18 = 27 - d$

$d = 9$

8. $14 = f - 17$

$f = 31$

9. $31 - 18 = h$

$h = 13$

10. $1 = 9 - a$

$a = 8$

11. $4 = n - 7$

$n = 11$

12. $4 = c - 16$

$c = 20$

13. $6 = s - 19$

$s = 25$

14. $w = 13 - 7$

$w = 6$

15. $1 = 14 - k$

$k = 13$

16. $18 - 7 = t$

$t = 11$

17. $b - 18 = 1$

$b = 19$

18. $3 = 4 - p$

$p = 1$

19. $33 - v = 19$

$v = 14$

20. $g - 6 = 19$

$g = 25$

Unknown Variables in Equations (D)

Name: _____

Date: _____

Determine the value of each variable.

1. $29 - 14 = p$

2. $v = 34 - 14$

3. $23 - 3 = s$

4. $17 - 8 = m$

5. $18 = 33 - n$

6. $t - 6 = 16$

7. $20 - a = 11$

8. $14 = y - 11$

9. $27 - d = 16$

10. $32 - h = 18$

11. $7 - 1 = k$

12. $34 - j = 19$

13. $11 = c - 15$

14. $r = 27 - 8$

15. $1 = 5 - x$

16. $4 = 19 - f$

17. $12 - 6 = z$

18. $w = 20 - 5$

19. $24 - 9 = b$

20. $g - 18 = 12$

Unknown Variables in Equations (D) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $29 - 14 = p$

$p = 15$

2. $v = 34 - 14$

$v = 20$

3. $23 - 3 = s$

$s = 20$

4. $17 - 8 = m$

$m = 9$

5. $18 = 33 - n$

$n = 15$

6. $t - 6 = 16$

$t = 22$

7. $20 - a = 11$

$a = 9$

8. $14 = y - 11$

$y = 25$

9. $27 - d = 16$

$d = 11$

10. $32 - h = 18$

$h = 14$

11. $7 - 1 = k$

$k = 6$

12. $34 - j = 19$

$j = 15$

13. $11 = c - 15$

$c = 26$

14. $r = 27 - 8$

$r = 19$

15. $1 = 5 - x$

$x = 4$

16. $4 = 19 - f$

$f = 15$

17. $12 - 6 = z$

$z = 6$

18. $w = 20 - 5$

$w = 15$

19. $24 - 9 = b$

$b = 15$

20. $g - 18 = 12$

$g = 30$

Unknown Variables in Equations (E)

Name: _____

Date: _____

Determine the value of each variable.

1. $h = 4 - 3$

2. $15 - 4 = r$

3. $7 = 17 - g$

4. $n - 3 = 6$

5. $d = 6 - 1$

6. $32 - c = 13$

7. $j - 3 = 6$

8. $7 = 11 - z$

9. $8 - 4 = x$

10. $19 = s - 11$

11. $p - 19 = 9$

12. $13 = 15 - k$

13. $26 - t = 7$

14. $14 = w - 3$

15. $b - 13 = 19$

16. $20 = v - 5$

17. $14 = 22 - f$

18. $30 - 13 = m$

19. $25 - 7 = y$

20. $22 - a = 3$

Unknown Variables in Equations (E) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $h = 4 - 3$

$h = 1$

2. $15 - 4 = r$

$r = 11$

3. $7 = 17 - g$

$g = 10$

4. $n - 3 = 6$

$n = 9$

5. $d = 6 - 1$

$d = 5$

6. $32 - c = 13$

$c = 19$

7. $j - 3 = 6$

$j = 9$

8. $7 = 11 - z$

$z = 4$

9. $8 - 4 = x$

$x = 4$

10. $19 = s - 11$

$s = 30$

11. $p - 19 = 9$

$p = 28$

12. $13 = 15 - k$

$k = 2$

13. $26 - t = 7$

$t = 19$

14. $14 = w - 3$

$w = 17$

15. $b - 13 = 19$

$b = 32$

16. $20 = v - 5$

$v = 25$

17. $14 = 22 - f$

$f = 8$

18. $30 - 13 = m$

$m = 17$

19. $25 - 7 = y$

$y = 18$

20. $22 - a = 3$

$a = 19$

Unknown Variables in Equations (F)

Name: _____

Date: _____

Determine the value of each variable.

1. $2 = 10 - t$

2. $8 - 6 = p$

3. $z = 4 - 2$

4. $17 - 11 = k$

5. $c - 10 = 6$

6. $22 - 18 = n$

7. $13 - s = 1$

8. $11 = d - 12$

9. $19 - 13 = f$

10. $12 = v - 5$

11. $b = 25 - 20$

12. $x - 19 = 9$

13. $16 = 21 - y$

14. $18 = 20 - g$

15. $29 - 16 = h$

16. $6 - m = 1$

17. $a - 12 = 9$

18. $14 - 5 = w$

19. $32 - 14 = j$

20. $11 = 13 - r$

Unknown Variables in Equations (F) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $2 = 10 - t$

$t = 8$

2. $8 - 6 = p$

$p = 2$

3. $z = 4 - 2$

$z = 2$

4. $17 - 11 = k$

$k = 6$

5. $c - 10 = 6$

$c = 16$

6. $22 - 18 = n$

$n = 4$

7. $13 - s = 1$

$s = 12$

8. $11 = d - 12$

$d = 23$

9. $19 - 13 = f$

$f = 6$

10. $12 = v - 5$

$v = 17$

11. $b = 25 - 20$

$b = 5$

12. $x - 19 = 9$

$x = 28$

13. $16 = 21 - y$

$y = 5$

14. $18 = 20 - g$

$g = 2$

15. $29 - 16 = h$

$h = 13$

16. $6 - m = 1$

$m = 5$

17. $a - 12 = 9$

$a = 21$

18. $14 - 5 = w$

$w = 9$

19. $32 - 14 = j$

$j = 18$

20. $11 = 13 - r$

$r = 2$

Unknown Variables in Equations (G)

Name: _____

Date: _____

Determine the value of each variable.

1. $f - 18 = 16$

2. $5 = 24 - w$

3. $m - 14 = 4$

4. $y - 18 = 18$

5. $z = 14 - 7$

6. $14 = 29 - n$

7. $15 = r - 12$

8. $25 - j = 18$

9. $p = 26 - 14$

10. $23 - 11 = v$

11. $13 = a - 14$

12. $26 - b = 17$

13. $12 = s - 14$

14. $14 = 27 - x$

15. $k = 16 - 7$

16. $9 - 1 = h$

17. $15 - d = 9$

18. $t - 16 = 8$

19. $10 = c - 1$

20. $33 - 18 = g$

Unknown Variables in Equations (G) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $f - 18 = 16$

$f = 34$

2. $5 = 24 - w$

$w = 19$

3. $m - 14 = 4$

$m = 18$

4. $y - 18 = 18$

$y = 36$

5. $z = 14 - 7$

$z = 7$

6. $14 = 29 - n$

$n = 15$

7. $15 = r - 12$

$r = 27$

8. $25 - j = 18$

$j = 7$

9. $p = 26 - 14$

$p = 12$

10. $23 - 11 = v$

$v = 12$

11. $13 = a - 14$

$a = 27$

12. $26 - b = 17$

$b = 9$

13. $12 = s - 14$

$s = 26$

14. $14 = 27 - x$

$x = 13$

15. $k = 16 - 7$

$k = 9$

16. $9 - 1 = h$

$h = 8$

17. $15 - d = 9$

$d = 6$

18. $t - 16 = 8$

$t = 24$

19. $10 = c - 1$

$c = 11$

20. $33 - 18 = g$

$g = 15$

Unknown Variables in Equations (H)

Name: _____

Date: _____

Determine the value of each variable.

1. $7 = 23 - n$

2. $m = 9 - 1$

3. $3 = w - 13$

4. $d - 10 = 10$

5. $3 = r - 5$

6. $22 - 20 = b$

7. $14 = p - 6$

8. $16 = 23 - k$

9. $35 - 20 = v$

10. $x - 12 = 1$

11. $5 = a - 20$

12. $y - 10 = 4$

13. $14 = 34 - t$

14. $26 - j = 9$

15. $11 = z - 6$

16. $25 - 8 = f$

17. $h = 27 - 16$

18. $23 - g = 16$

19. $19 - s = 1$

20. $23 - 5 = c$

Unknown Variables in Equations (H) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $7 = 23 - n$

$n = 16$

2. $m = 9 - 1$

$m = 8$

3. $3 = w - 13$

$w = 16$

4. $d - 10 = 10$

$d = 20$

5. $3 = r - 5$

$r = 8$

6. $22 - 20 = b$

$b = 2$

7. $14 = p - 6$

$p = 20$

8. $16 = 23 - k$

$k = 7$

9. $35 - 20 = v$

$v = 15$

10. $x - 12 = 1$

$x = 13$

11. $5 = a - 20$

$a = 25$

12. $y - 10 = 4$

$y = 14$

13. $14 = 34 - t$

$t = 20$

14. $26 - j = 9$

$j = 17$

15. $11 = z - 6$

$z = 17$

16. $25 - 8 = f$

$f = 17$

17. $h = 27 - 16$

$h = 11$

18. $23 - g = 16$

$g = 7$

19. $19 - s = 1$

$s = 18$

20. $23 - 5 = c$

$c = 18$

Unknown Variables in Equations (I)

Name: _____

Date: _____

Determine the value of each variable.

1. $n - 8 = 1$

2. $30 - 11 = p$

3. $b = 19 - 12$

4. $y = 15 - 10$

5. $19 = m - 6$

6. $1 = 10 - s$

7. $1 = 12 - w$

8. $v - 20 = 9$

9. $z = 30 - 12$

10. $a - 2 = 12$

11. $22 - 15 = c$

12. $g = 17 - 1$

13. $11 = t - 20$

14. $d - 7 = 8$

15. $18 = h - 14$

16. $j - 5 = 16$

17. $7 = 20 - r$

18. $19 - 18 = x$

19. $7 - k = 1$

20. $f - 15 = 11$

Unknown Variables in Equations (I) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $n - 8 = 1$

$n = 9$

2. $30 - 11 = p$

$p = 19$

3. $b = 19 - 12$

$b = 7$

4. $y = 15 - 10$

$y = 5$

5. $19 = m - 6$

$m = 25$

6. $1 = 10 - s$

$s = 9$

7. $1 = 12 - w$

$w = 11$

8. $v - 20 = 9$

$v = 29$

9. $z = 30 - 12$

$z = 18$

10. $a - 2 = 12$

$a = 14$

11. $22 - 15 = c$

$c = 7$

12. $g = 17 - 1$

$g = 16$

13. $11 = t - 20$

$t = 31$

14. $d - 7 = 8$

$d = 15$

15. $18 = h - 14$

$h = 32$

16. $j - 5 = 16$

$j = 21$

17. $7 = 20 - r$

$r = 13$

18. $19 - 18 = x$

$x = 1$

19. $7 - k = 1$

$k = 6$

20. $f - 15 = 11$

$f = 26$

Unknown Variables in Equations (J)

Name: _____

Date: _____

Determine the value of each variable.

1. $r = 13 - 2$

2. $25 - g = 11$

3. $2 = h - 16$

4. $m = 25 - 19$

5. $10 - 7 = z$

6. $13 = 19 - b$

7. $20 = j - 13$

8. $2 = f - 3$

9. $3 = 22 - c$

10. $14 - 10 = a$

11. $x = 20 - 11$

12. $w - 4 = 20$

13. $12 - 10 = v$

14. $21 - 7 = p$

15. $7 = y - 7$

16. $d - 19 = 12$

17. $22 - s = 11$

18. $k - 8 = 8$

19. $n = 25 - 7$

20. $21 - t = 6$

Unknown Variables in Equations (J) Answers

Name: _____

Date: _____

Determine the value of each variable.

1. $r = 13 - 2$

$r = 11$

2. $25 - g = 11$

$g = 14$

3. $2 = h - 16$

$h = 18$

4. $m = 25 - 19$

$m = 6$

5. $10 - 7 = z$

$z = 3$

6. $13 = 19 - b$

$b = 6$

7. $20 = j - 13$

$j = 33$

8. $2 = f - 3$

$f = 5$

9. $3 = 22 - c$

$c = 19$

10. $14 - 10 = a$

$a = 4$

11. $x = 20 - 11$

$x = 9$

12. $w - 4 = 20$

$w = 24$

13. $12 - 10 = v$

$v = 2$

14. $21 - 7 = p$

$p = 14$

15. $7 = y - 7$

$y = 14$

16. $d - 19 = 12$

$d = 31$

17. $22 - s = 11$

$s = 11$

18. $k - 8 = 8$

$k = 16$

19. $n = 25 - 7$

$n = 18$

20. $21 - t = 6$

$t = 15$