

Evaluating Expressions (A)

Evaluate each expression using the values given.

1. $b \cdot (9 - b) \cdot b$
($b = 9$)

6. $(z - z \div 6) \cdot 6$
($z = 10$)

11. $u \div (a \cdot a^2)$
($a = 1, u = 10$)

2. $u - (u - u)^3$
($u = 10$)

7. $b^4 \div b \cdot 10$
($b = 1$)

12. $6 \div 3 + y + 8$
($y = 7$)

3. $(y + y - y) \div y$
($y = 2$)

8. $x + (5 - 1)^2$
($x = 1$)

13. $9 - 6 \div b \div 2$
($b = 8$)

4. $(5 \div (x + 4))^3$
($x = 1$)

9. $a^3 \div a^2$
($a = 2$)

14. $ax \div (6a)$
($a = 9, x = 3$)

5. $(c - (c - c)) \cdot 2$
($c = 5$)

10. $8 + 1 + 4 + u$
($u = 1$)

15. $a + 9 - 7 \div a$
($a = 2$)

Evaluating Expressions (A) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & b \cdot (9 - b) \cdot b \\ & (b = 9) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 6. & (z - z \div 6) \cdot 6 \\ & (z = 10) \\ & = 50 \end{aligned}$$

$$\begin{aligned} 11. & u \div (a \cdot a^2) \\ & (a = 1, u = 10) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 2. & u - (u - u)^3 \\ & (u = 10) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 7. & b^4 \div b \cdot 10 \\ & (b = 1) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 12. & 6 \div 3 + y + 8 \\ & (y = 7) \\ & = 17 \end{aligned}$$

$$\begin{aligned} 3. & (y + y - y) \div y \\ & (y = 2) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 8. & x + (5 - 1)^2 \\ & (x = 1) \\ & = 17 \end{aligned}$$

$$\begin{aligned} 13. & 9 - 6 \div b \div 2 \\ & (b = 8) \\ & = \frac{69}{8} \end{aligned}$$

$$\begin{aligned} 4. & (5 \div (x + 4))^3 \\ & (x = 1) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 9. & a^3 \div a^2 \\ & (a = 2) \\ & = 2 \end{aligned}$$

$$\begin{aligned} 14. & ax \div (6a) \\ & (a = 9, x = 3) \\ & = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 5. & (c - (c - c)) \cdot 2 \\ & (c = 5) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 10. & 8 + 1 + 4 + u \\ & (u = 1) \\ & = 14 \end{aligned}$$

$$\begin{aligned} 15. & a + 9 - 7 \div a \\ & (a = 2) \\ & = \frac{15}{2} \end{aligned}$$

Evaluating Expressions (B)

Evaluate each expression using the values given.

1. $6 \div a - (u - a)$
($a = 5, u = 6$)

6. $9 - (1 \div 9 + a)$
($a = 2$)

11. $y + 7 + u \div y$
($y = 6, u = 6$)

2. $3b + b \div 7$
($b = 1$)

7. $a \div 3 + 8 \div a$
($a = 7$)

12. $x \cdot x \div (z + x)$
($x = 9, z = 8$)

3. $8 + y + 6 + 1$
($y = 4$)

8. $b + 7 \div c \cdot b$
($c = 6, b = 8$)

13. $9 + b - (b - 3)$
($b = 5$)

4. $8 + 7b + 4$
($b = 3$)

9. $8 \div y \cdot 6 \cdot 4$
($y = 6$)

14. $7 - 6(v - v)$
($v = 7$)

5. $(v \div v \cdot v)^2$
($v = 10$)

10. $(5 - 5) \cdot y^4$
($y = 5$)

15. $1 + 4 \cdot 10 \div b$
($b = 9$)

Evaluating Expressions (B) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & 6 \div a - (u - a) \\ & (a = 5, u = 6) \\ & = \frac{1}{5} \end{aligned}$$

$$\begin{aligned} 6. & 9 - (1 \div 9 + a) \\ & (a = 2) \\ & = \frac{62}{9} \end{aligned}$$

$$\begin{aligned} 11. & y + 7 + u \div y \\ & (y = 6, u = 6) \\ & = 14 \end{aligned}$$

$$\begin{aligned} 2. & 3b + b \div 7 \\ & (b = 1) \\ & = \frac{22}{7} \end{aligned}$$

$$\begin{aligned} 7. & a \div 3 + 8 \div a \\ & (a = 7) \\ & = \frac{73}{21} \end{aligned}$$

$$\begin{aligned} 12. & x \cdot x \div (z + x) \\ & (x = 9, z = 8) \\ & = \frac{81}{17} \end{aligned}$$

$$\begin{aligned} 3. & 8 + y + 6 + 1 \\ & (y = 4) \\ & = 19 \end{aligned}$$

$$\begin{aligned} 8. & b + 7 \div c \cdot b \\ & (c = 6, b = 8) \\ & = \frac{52}{3} \end{aligned}$$

$$\begin{aligned} 13. & 9 + b - (b - 3) \\ & (b = 5) \\ & = 12 \end{aligned}$$

$$\begin{aligned} 4. & 8 + 7b + 4 \\ & (b = 3) \\ & = 33 \end{aligned}$$

$$\begin{aligned} 9. & 8 \div y \cdot 6 \cdot 4 \\ & (y = 6) \\ & = 32 \end{aligned}$$

$$\begin{aligned} 14. & 7 - 6(v - v) \\ & (v = 7) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 5. & (v \div v \cdot v)^2 \\ & (v = 10) \\ & = 100 \end{aligned}$$

$$\begin{aligned} 10. & (5 - 5) \cdot y^4 \\ & (y = 5) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 15. & 1 + 4 \cdot 10 \div b \\ & (b = 9) \\ & = \frac{49}{9} \end{aligned}$$

Evaluating Expressions (C)

Evaluate each expression using the values given.

1. $10 \div 1 \div c \cdot c$
($c = 4$)

6. $z + 6 \div z - z$
($z = 1$)

11. $v + 5 - x \div x$
($x = 6, v = 4$)

2. $(b + 9 - 1)^2$
($b = 1$)

7. $y - b \div 4 \cdot b$
($y = 10, b = 5$)

12. $10(9 - y) + z$
($y = 4, z = 4$)

3. $4 + u^2 \div v$
($u = 7, v = 1$)

8. $u \div (6u + 2)$
($u = 4$)

13. $v + x(9 - x)$
($x = 4, v = 6$)

4. $8v - v - v$
($v = 5$)

9. $x(6 \cdot 6 + x)$
($x = 1$)

14. $(y - y \div 3) \cdot y$
($y = 2$)

5. $4 \cdot 2^3 \cdot b$
($b = 1$)

10. $b - (u + u \div b)$
($b = 6, u = 2$)

15. $a \cdot 6 \div (x - a)$
($a = 8, x = 10$)

Evaluating Expressions (C) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & 10 \div 1 \div c \cdot c \\ & (c = 4) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 6. & z + 6 \div z - z \\ & (z = 1) \\ & = 6 \end{aligned}$$

$$\begin{aligned} 11. & v + 5 - x \div x \\ & (x = 6, v = 4) \\ & = 8 \end{aligned}$$

$$\begin{aligned} 2. & (b + 9 - 1)^2 \\ & (b = 1) \\ & = 81 \end{aligned}$$

$$\begin{aligned} 7. & y - b \div 4 \cdot b \\ & (y = 10, b = 5) \\ & = \frac{15}{4} \end{aligned}$$

$$\begin{aligned} 12. & 10(9 - y) + z \\ & (y = 4, z = 4) \\ & = 54 \end{aligned}$$

$$\begin{aligned} 3. & 4 + u^2 \div v \\ & (u = 7, v = 1) \\ & = 53 \end{aligned}$$

$$\begin{aligned} 8. & u \div (6u + 2) \\ & (u = 4) \\ & = \frac{2}{13} \end{aligned}$$

$$\begin{aligned} 13. & v + x(9 - x) \\ & (x = 4, v = 6) \\ & = 50 \end{aligned}$$

$$\begin{aligned} 4. & 8v - v - v \\ & (v = 5) \\ & = 30 \end{aligned}$$

$$\begin{aligned} 9. & x(6 \cdot 6 + x) \\ & (x = 1) \\ & = 37 \end{aligned}$$

$$\begin{aligned} 14. & (y - y \div 3) \cdot y \\ & (y = 2) \\ & = \frac{8}{3} \end{aligned}$$

$$\begin{aligned} 5. & 4 \cdot 2^3 \cdot b \\ & (b = 1) \\ & = 32 \end{aligned}$$

$$\begin{aligned} 10. & b - (u + u \div b) \\ & (b = 6, u = 2) \\ & = \frac{11}{3} \end{aligned}$$

$$\begin{aligned} 15. & a \cdot 6 \div (x - a) \\ & (a = 8, x = 10) \\ & = 24 \end{aligned}$$

Evaluating Expressions (D)

Evaluate each expression using the values given.

1. $(7 - 5 \div 4) \cdot z$
($z = 2$)

6. $z + c - (z + 1)$
($c = 4, z = 10$)

11. $6 + (u - u)^4$
($u = 6$)

2. $c \div 2 \div c^2$
($c = 8$)

7. $(6 + 3 - x) \cdot 7$
($x = 8$)

12. $u - (8 \div 6 - 1)$
($u = 5$)

3. $6(b + 10) \div b$
($b = 4$)

8. $y(3 - (y - y))$
($y = 3$)

13. $a + b \div (4 - b)$
($a = 8, b = 3$)

4. $2 - (b \div c)^2$
($c = 8, b = 6$)

9. $b + x - x \div 5$
($x = 6, b = 2$)

14. $(v - 4) \cdot u - 5$
($u = 9, v = 7$)

5. $4 \div y \cdot y^2$
($y = 2$)

10. $3 \div b - (3 - z)$
($b = 10, z = 3$)

15. $y \div (6 \cdot 6) \cdot b$
($y = 8, b = 7$)

Evaluating Expressions (D) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & (7 - 5 \div 4) \cdot z \\ & (z = 2) \\ & = \frac{23}{2} \end{aligned}$$

$$\begin{aligned} 6. & z + c - (z + 1) \\ & (c = 4, z = 10) \\ & = 3 \end{aligned}$$

$$\begin{aligned} 11. & 6 + (u - u)^4 \\ & (u = 6) \\ & = 6 \end{aligned}$$

$$\begin{aligned} 2. & c \div 2 \div c^2 \\ & (c = 8) \\ & = \frac{1}{16} \end{aligned}$$

$$\begin{aligned} 7. & (6 + 3 - x) \cdot 7 \\ & (x = 8) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 12. & u - (8 \div 6 - 1) \\ & (u = 5) \\ & = \frac{14}{3} \end{aligned}$$

$$\begin{aligned} 3. & 6(b + 10) \div b \\ & (b = 4) \\ & = 21 \end{aligned}$$

$$\begin{aligned} 8. & y(3 - (y - y)) \\ & (y = 3) \\ & = 9 \end{aligned}$$

$$\begin{aligned} 13. & a + b \div (4 - b) \\ & (a = 8, b = 3) \\ & = 11 \end{aligned}$$

$$\begin{aligned} 4. & 2 - (b \div c)^2 \\ & (c = 8, b = 6) \\ & = \frac{23}{16} \end{aligned}$$

$$\begin{aligned} 9. & b + x - x \div 5 \\ & (x = 6, b = 2) \\ & = \frac{34}{5} \end{aligned}$$

$$\begin{aligned} 14. & (v - 4) \cdot u - 5 \\ & (u = 9, v = 7) \\ & = 22 \end{aligned}$$

$$\begin{aligned} 5. & 4 \div y \cdot y^2 \\ & (y = 2) \\ & = 8 \end{aligned}$$

$$\begin{aligned} 10. & 3 \div b - (3 - z) \\ & (b = 10, z = 3) \\ & = \frac{3}{10} \end{aligned}$$

$$\begin{aligned} 15. & y \div (6 \cdot 6) \cdot b \\ & (y = 8, b = 7) \\ & = \frac{14}{9} \end{aligned}$$

Evaluating Expressions (E)

Evaluate each expression using the values given.

1. $x + z - 7 \div 8$
($x = 1, z = 9$)

6. $v \div 3 \cdot 3u$
($u = 6, v = 3$)

11. $u + x + 1 + u$
($x = 10, u = 2$)

2. $10 - (u + 1 + u)$
($u = 4$)

7. $(c \cdot c - c)^2$
($c = 1$)

12. $\left((x - x)^4\right)^4$
($x = 4$)

3. $x + 8 - (x - z)$
($x = 5, z = 4$)

8. $z - (4 + 3 \div u)$
($z = 9, u = 4$)

13. $c \div v(c - v)$
($c = 5, v = 1$)

4. $v \div 8 \div (4v)$
($v = 8$)

9. $b - (b - b \div b)$
($b = 8$)

14. $7 \div ((v - 6) \div b)$
($b = 1, v = 7$)

5. $2z - 3 - 3$
($z = 6$)

10. $(10 + 7 - c) \cdot c$
($c = 7$)

15. $(8 - y) \div (2 \div y)$
($y = 6$)

Evaluating Expressions (E) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. \quad & x + z - 7 \div 8 \\ & (x = 1, z = 9) \\ & = \frac{73}{8} \end{aligned}$$

$$\begin{aligned} 6. \quad & v \div 3 \cdot 3u \\ & (u = 6, v = 3) \\ & = 18 \end{aligned}$$

$$\begin{aligned} 11. \quad & u + x + 1 + u \\ & (x = 10, u = 2) \\ & = 15 \end{aligned}$$

$$\begin{aligned} 2. \quad & 10 - (u + 1 + u) \\ & (u = 4) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & (c \cdot c - c)^2 \\ & (c = 1) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 12. \quad & \left((x - x)^4 \right)^4 \\ & (x = 4) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 3. \quad & x + 8 - (x - z) \\ & (x = 5, z = 4) \\ & = 12 \end{aligned}$$

$$\begin{aligned} 8. \quad & z - (4 + 3 \div u) \\ & (z = 9, u = 4) \\ & = \frac{17}{4} \end{aligned}$$

$$\begin{aligned} 13. \quad & c \div v(c - v) \\ & (c = 5, v = 1) \\ & = 20 \end{aligned}$$

$$\begin{aligned} 4. \quad & v \div 8 \div (4v) \\ & (v = 8) \\ & = \frac{1}{32} \end{aligned}$$

$$\begin{aligned} 9. \quad & b - (b - b \div b) \\ & (b = 8) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 14. \quad & 7 \div ((v - 6) \div b) \\ & (b = 1, v = 7) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 5. \quad & 2z - 3 - 3 \\ & (z = 6) \\ & = 6 \end{aligned}$$

$$\begin{aligned} 10. \quad & (10 + 7 - c) \cdot c \\ & (c = 7) \\ & = 70 \end{aligned}$$

$$\begin{aligned} 15. \quad & (8 - y) \div (2 \div y) \\ & (y = 6) \\ & = 6 \end{aligned}$$

Evaluating Expressions (F)

Evaluate each expression using the values given.

1. $4 - c \div 2 \div 6$
($c = 7$)

6. $10 \div (a \div z) - 3$
($a = 10, z = 4$)

11. $4 \cdot 2 \div (x \div x)$
($x = 2$)

2. $(z + u) \div 7 \cdot u$
($z = 5, u = 4$)

7. $(2(u - u))^3$
($u = 10$)

12. $v \cdot 2 \div (10 + 4)$
($v = 2$)

3. $(zb \div b)^2$
($z = 4, b = 2$)

8. $a - (y - y \div 7)$
($a = 9, y = 5$)

13. $10 - 2 - u + u$
($u = 8$)

4. $6 + y + y - 3$
($y = 9$)

9. $6 - (x + 6 - x)$
($x = 2$)

14. $7 \cdot z \div 9 + 2$
($z = 8$)

5. $b \div ((9 - 5) \cdot b)$
($b = 6$)

10. $y \div (y + 5 - c)$
($y = 8, c = 6$)

15. $7c \div (2 - c)$
($c = 1$)

Evaluating Expressions (F) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & 4 - c \div 2 \div 6 \\ & (c = 7) \\ & = \frac{41}{12} \end{aligned}$$

$$\begin{aligned} 6. & 10 \div (a \div z) - 3 \\ & (a = 10, z = 4) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 11. & 4 \cdot 2 \div (x \div x) \\ & (x = 2) \\ & = 8 \end{aligned}$$

$$\begin{aligned} 2. & (z + u) \div 7 \cdot u \\ & (z = 5, u = 4) \\ & = \frac{36}{7} \end{aligned}$$

$$\begin{aligned} 7. & (2(u - u))^3 \\ & (u = 10) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 12. & v \cdot 2 \div (10 + 4) \\ & (v = 2) \\ & = \frac{2}{7} \end{aligned}$$

$$\begin{aligned} 3. & (zb \div b)^2 \\ & (z = 4, b = 2) \\ & = 16 \end{aligned}$$

$$\begin{aligned} 8. & a - (y - y \div 7) \\ & (a = 9, y = 5) \\ & = \frac{33}{7} \end{aligned}$$

$$\begin{aligned} 13. & 10 - 2 - u + u \\ & (u = 8) \\ & = 8 \end{aligned}$$

$$\begin{aligned} 4. & 6 + y + y - 3 \\ & (y = 9) \\ & = 21 \end{aligned}$$

$$\begin{aligned} 9. & 6 - (x + 6 - x) \\ & (x = 2) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 14. & 7 \cdot z \div 9 + 2 \\ & (z = 8) \\ & = \frac{74}{9} \end{aligned}$$

$$\begin{aligned} 5. & b \div ((9 - 5) \cdot b) \\ & (b = 6) \\ & = \frac{1}{4} \end{aligned}$$

$$\begin{aligned} 10. & y \div (y + 5 - c) \\ & (y = 8, c = 6) \\ & = \frac{8}{7} \end{aligned}$$

$$\begin{aligned} 15. & 7c \div (2 - c) \\ & (c = 1) \\ & = 7 \end{aligned}$$

Evaluating Expressions (G)

Evaluate each expression using the values given.

1. $(x + y) \div 5^2$
($y = 10, x = 6$)

6. $v + c - (c + 1)$
($c = 4, v = 8$)

11. $(x + 2x)^2$
($x = 2$)

2. $10 - a \cdot 6 \div a$
($a = 5$)

7. $b^2 + x - 7$
($x = 8, b = 1$)

12. $8 \cdot z \div 9 \div u$
($z = 10, u = 8$)

3. $u - (1^3 - 1)$
($u = 1$)

8. $v + 8 + v + v$
($v = 7$)

13. $2 \div (z - (z - 2))$
($z = 6$)

4. $4 \cdot 7 \cdot c^4$
($c = 1$)

9. $x(c - c) \cdot x$
($x = 3, c = 6$)

14. $(4 \div (3 - v))^3$
($v = 2$)

5. $y \div (6y \div 7)$
($y = 1$)

10. $a + 8 + 6 - a$
($a = 3$)

15. $(v + 1) \cdot 1^2$
($v = 7$)

Evaluating Expressions (G) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & (x + y) \div 5^2 \\ & (y = 10, x = 6) \\ & = \frac{16}{25} \end{aligned}$$

$$\begin{aligned} 6. & v + c - (c + 1) \\ & (c = 4, v = 8) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 11. & (x + 2x)^2 \\ & (x = 2) \\ & = 36 \end{aligned}$$

$$\begin{aligned} 2. & 10 - a \cdot 6 \div a \\ & (a = 5) \\ & = 4 \end{aligned}$$

$$\begin{aligned} 7. & b^2 + x - 7 \\ & (x = 8, b = 1) \\ & = 2 \end{aligned}$$

$$\begin{aligned} 12. & 8 \cdot z \div 9 \div u \\ & (z = 10, u = 8) \\ & = \frac{10}{9} \end{aligned}$$

$$\begin{aligned} 3. & u - (1^3 - 1) \\ & (u = 1) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 8. & v + 8 + v + v \\ & (v = 7) \\ & = 29 \end{aligned}$$

$$\begin{aligned} 13. & 2 \div (z - (z - 2)) \\ & (z = 6) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 4. & 4 \cdot 7 \cdot c^4 \\ & (c = 1) \\ & = 28 \end{aligned}$$

$$\begin{aligned} 9. & x(c - c) \cdot x \\ & (x = 3, c = 6) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 14. & (4 \div (3 - v))^3 \\ & (v = 2) \\ & = 64 \end{aligned}$$

$$\begin{aligned} 5. & y \div (6y \div 7) \\ & (y = 1) \\ & = \frac{7}{6} \end{aligned}$$

$$\begin{aligned} 10. & a + 8 + 6 - a \\ & (a = 3) \\ & = 14 \end{aligned}$$

$$\begin{aligned} 15. & (v + 1) \cdot 1^2 \\ & (v = 7) \\ & = 8 \end{aligned}$$

Evaluating Expressions (H)

Evaluate each expression using the values given.

1. $(y - 4) \cdot 5 + y$
($y = 9$)

6. $4 \div 9(u + 4)$
($u = 3$)

11. $b - (c - c) \cdot c$
($c = 5, b = 10$)

2. $4 \div v \cdot v \div v$
($v = 8$)

7. $(u \div u)^3 \cdot u$
($u = 4$)

12. $(a - 4) \div (z - a)$
($a = 4, z = 9$)

3. $4 \cdot 3 - (5 - y)$
($y = 2$)

8. $y(x - 7) + y$
($y = 8, x = 7$)

13. $c + (x - 8)^4$
($x = 8, c = 1$)

4. $c \cdot (u - 4) \div 10$
($c = 5, u = 6$)

9. $7 - (z \div u - 1)$
($z = 2, u = 1$)

14. $a \div (7b - a)$
($a = 5, b = 3$)

5. $b - (1 - y \div y)$
($y = 2, b = 10$)

10. $vz \div (6 + 9)$
($z = 8, v = 9$)

15. $y + 3 + y^3$
($y = 4$)

Evaluating Expressions (H) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & (y - 4) \cdot 5 + y \\ & (y = 9) \\ & = 34 \end{aligned}$$

$$\begin{aligned} 6. & 4 \div 9(u + 4) \\ & (u = 3) \\ & = \frac{28}{9} \end{aligned}$$

$$\begin{aligned} 11. & b - (c - c) \cdot c \\ & (c = 5, b = 10) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 2. & 4 \div v \cdot v \div v \\ & (v = 8) \\ & = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 7. & (u \div u)^3 \cdot u \\ & (u = 4) \\ & = 4 \end{aligned}$$

$$\begin{aligned} 12. & (a - 4) \div (z - a) \\ & (a = 4, z = 9) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 3. & 4 \cdot 3 - (5 - y) \\ & (y = 2) \\ & = 9 \end{aligned}$$

$$\begin{aligned} 8. & y(x - 7) + y \\ & (y = 8, x = 7) \\ & = 8 \end{aligned}$$

$$\begin{aligned} 13. & c + (x - 8)^4 \\ & (x = 8, c = 1) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 4. & c \cdot (u - 4) \div 10 \\ & (c = 5, u = 6) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 9. & 7 - (z \div u - 1) \\ & (z = 2, u = 1) \\ & = 6 \end{aligned}$$

$$\begin{aligned} 14. & a \div (7b - a) \\ & (a = 5, b = 3) \\ & = \frac{5}{16} \end{aligned}$$

$$\begin{aligned} 5. & b - (1 - y \div y) \\ & (y = 2, b = 10) \\ & = 10 \end{aligned}$$

$$\begin{aligned} 10. & vz \div (6 + 9) \\ & (z = 8, v = 9) \\ & = \frac{24}{5} \end{aligned}$$

$$\begin{aligned} 15. & y + 3 + y^3 \\ & (y = 4) \\ & = 71 \end{aligned}$$

Evaluating Expressions (I)

Evaluate each expression using the values given.

1. $v - v \div c \cdot 3$
($c = 6, v = 1$)

6. $5 \div ((x + 6) \div v)$
($x = 1, v = 7$)

11. $(2 + a + x) \div x$
($a = 5, x = 7$)

2. $a \cdot a + 9 + y$
($a = 3, y = 2$)

7. $u \div (u - 2) \div u$
($u = 5$)

12. $u + u^3 - a$
($a = 9, u = 4$)

3. $v^3 \div v \div v$
($v = 7$)

8. $z + 9 + u + 6$
($z = 10, u = 3$)

13. $7(4^2 - y)$
($y = 4$)

4. $9 - y \div (y \div 1)$
($y = 9$)

9. $z - (c + z - c)$
($c = 6, z = 10$)

14. $y + 9 + y + 4$
($y = 10$)

5. $(10 \div 1 - y) \div y$
($y = 1$)

10. $x \div (10 - c) + 3$
($x = 4, c = 8$)

15. $u - (1 - (a - a))$
($a = 6, u = 8$)

Evaluating Expressions (I) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & v - v \div c \cdot 3 \\ & (c = 6, v = 1) \\ & = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 6. & 5 \div ((x + 6) \div v) \\ & (x = 1, v = 7) \\ & = 5 \end{aligned}$$

$$\begin{aligned} 11. & (2 + a + x) \div x \\ & (a = 5, x = 7) \\ & = 2 \end{aligned}$$

$$\begin{aligned} 2. & a \cdot a + 9 + y \\ & (a = 3, y = 2) \\ & = 20 \end{aligned}$$

$$\begin{aligned} 7. & u \div (u - 2) \div u \\ & (u = 5) \\ & = \frac{1}{3} \end{aligned}$$

$$\begin{aligned} 12. & u + u^3 - a \\ & (a = 9, u = 4) \\ & = 59 \end{aligned}$$

$$\begin{aligned} 3. & v^3 \div v \div v \\ & (v = 7) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 8. & z + 9 + u + 6 \\ & (z = 10, u = 3) \\ & = 28 \end{aligned}$$

$$\begin{aligned} 13. & 7(4^2 - y) \\ & (y = 4) \\ & = 84 \end{aligned}$$

$$\begin{aligned} 4. & 9 - y \div (y \div 1) \\ & (y = 9) \\ & = 8 \end{aligned}$$

$$\begin{aligned} 9. & z - (c + z - c) \\ & (c = 6, z = 10) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 14. & y + 9 + y + 4 \\ & (y = 10) \\ & = 33 \end{aligned}$$

$$\begin{aligned} 5. & (10 \div 1 - y) \div y \\ & (y = 1) \\ & = 9 \end{aligned}$$

$$\begin{aligned} 10. & x \div (10 - c) + 3 \\ & (x = 4, c = 8) \\ & = 5 \end{aligned}$$

$$\begin{aligned} 15. & u - (1 - (a - a)) \\ & (a = 6, u = 8) \\ & = 7 \end{aligned}$$

Evaluating Expressions (J)

Evaluate each expression using the values given.

1. $2 \div (c + y \div c)$
($y = 1, c = 3$)

6. $9(z - u \div u)$
($z = 5, u = 7$)

11. $(7 - u) \div 2 \cdot 6$
($u = 1$)

2. $y \cdot 7 \div 6 - y$
($y = 5$)

7. $(8(y - y))^4$
($y = 7$)

12. $x - x \div (10v)$
($x = 5, v = 5$)

3. $(9 - x \div 3) \cdot 6$
($x = 2$)

8. $b \div (b - y + 5)$
($y = 2, b = 7$)

13. $10 \cdot b \div (v - 1)$
($b = 1, v = 6$)

4. $7 + u - z^2$
($z = 2, u = 4$)

9. $4(1 + z) \cdot 5$
($z = 4$)

14. $(3 + b + 5) \div 9$
($b = 3$)

5. $c \div (c + 3 \div 8)$
($c = 2$)

10. $7 - a - a^2$
($a = 2$)

15. $10 + z \div (v \div 9)$
($z = 3, v = 2$)

Evaluating Expressions (J) Answers

Evaluate each expression using the values given.

$$\begin{aligned} 1. & 2 \div (c + y \div c) \\ & (y = 1, c = 3) \\ & = \frac{3}{5} \end{aligned}$$

$$\begin{aligned} 6. & 9(z - u \div u) \\ & (z = 5, u = 7) \\ & = 36 \end{aligned}$$

$$\begin{aligned} 11. & (7 - u) \div 2 \cdot 6 \\ & (u = 1) \\ & = 18 \end{aligned}$$

$$\begin{aligned} 2. & y \cdot 7 \div 6 - y \\ & (y = 5) \\ & = \frac{5}{6} \end{aligned}$$

$$\begin{aligned} 7. & (8(y - y))^4 \\ & (y = 7) \\ & = 0 \end{aligned}$$

$$\begin{aligned} 12. & x - x \div (10v) \\ & (x = 5, v = 5) \\ & = \frac{49}{10} \end{aligned}$$

$$\begin{aligned} 3. & (9 - x \div 3) \cdot 6 \\ & (x = 2) \\ & = 50 \end{aligned}$$

$$\begin{aligned} 8. & b \div (b - y + 5) \\ & (y = 2, b = 7) \\ & = \frac{7}{10} \end{aligned}$$

$$\begin{aligned} 13. & 10 \cdot b \div (v - 1) \\ & (b = 1, v = 6) \\ & = 2 \end{aligned}$$

$$\begin{aligned} 4. & 7 + u - z^2 \\ & (z = 2, u = 4) \\ & = 7 \end{aligned}$$

$$\begin{aligned} 9. & 4(1 + z) \cdot 5 \\ & (z = 4) \\ & = 100 \end{aligned}$$

$$\begin{aligned} 14. & (3 + b + 5) \div 9 \\ & (b = 3) \\ & = \frac{11}{9} \end{aligned}$$

$$\begin{aligned} 5. & c \div (c + 3 \div 8) \\ & (c = 2) \\ & = \frac{16}{19} \end{aligned}$$

$$\begin{aligned} 10. & 7 - a - a^2 \\ & (a = 2) \\ & = 1 \end{aligned}$$

$$\begin{aligned} 15. & 10 + z \div (v \div 9) \\ & (z = 3, v = 2) \\ & = \frac{47}{2} \end{aligned}$$