Evaluating Expressions (A)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (A) Answers

Evaluate each expression using the values given.

1. $b \cdot (9 - b) \cdot b$
$(b = 9)$
$= 0$

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

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

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

5. $(c - (c - c)) \cdot 2$
$(c = 5)$
$= 10$

6. $(z - z \div 6) \cdot 6$
$(z = 10)$
$= 50$

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

8. $x + (5 - 1)^2$
$(x = 1)$
$= 17$

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

10. $8 + 1 + 4 + u$
$(u = 1)$
$= 14$

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

12. $6 \div 3 + y + 8$
$(y = 7)$
$= 17$

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

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

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

Evaluating Expressions (B)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (B) Answers

Evaluate each expression using the values given.

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

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

3. $8 + y + 6 + 1$
$(y = 4)$
$= 19$

4. $8 + 7b + 4$
$(b = 3)$
$= 33$

5. $(v \div v \cdot v)^2$
$(v = 10)$
$= 100$

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

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

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

9. $8 \div y \cdot 6 \cdot 4$
$(y = 6)$
$= 32$

10. $(5 - 5) \cdot y^4$
$(y = 5)$
$= 0$

11. $y + 7 + u \div y$
$(y = 6, u = 6)$
$= 14$

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

13. $9 + b - (b - 3)$
$(b = 5)$
$= 12$

14. $7 - 6(v - v)$
$(v = 7)$
$= 0$

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

Evaluating Expressions (C)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (C) Answers

Evaluate each expression using the values given.

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

2. $(b + 9 - 1)^2$
$(b = 1)$
$= 81$

3. $4 + u^2 \div v$
$(u = 7, v = 1)$
$= 53$

4. $8v - v - v$
$(v = 5)$
$= 30$

5. $4 \cdot 2^3 \cdot b$
$(b = 1)$
$= 32$

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

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

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

9. $x(6 \cdot 6 + x)$
$(x = 1)$
$= 37$

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

11. $v + 5 - x \div x$
$(x = 6, v = 4)$
$= 8$

12. $10(9 - y) + z$
$(y = 4, z = 4)$
$= 54$

13. $v + x(9 - x)$
$(x = 4, v = 6)$
$= 50$

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

15. $a \cdot 6 \div (x - a)$
$(a = 8, x = 10)$
$= 24$

Evaluating Expressions (D)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (D) Answers

Evaluate each expression using the values given.

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

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

3. $6(b+10)\div b$
$(b=4)$
$=21$

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

5. $4\div y\cdot y^2$
$(y=2)$
$=8$

6. $z+c-(z+1)$
$(c=4,z=10)$
$=3$

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

8. $y(3-(y-y))$
$(y=3)$
$=9$

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

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

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

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

13. $a+b\div(4-b)$
$(a=8,b=3)$
$=11$

14. $(v-4)\cdot u-5$
$(u=9,v=7)$
$=22$

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

Evaluating Expressions (E)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (E) Answers

Evaluate each expression using the values given.

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

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

3. $x+8-(x-z)$
$(x=5, z=4)$
$=12$

4. $v\div 8\div(4v)$
$(v=8)$
$=\frac{1}{32}$

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

6. $v\div 3\cdot 3u$
$(u=6, v=3)$
$=18$

7. $(c\cdot c-c)^2$
$(c=1)$
$=0$

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

9. $b-(b-b\div b)$
$(b=8)$
$=1$

10. $(10+7-c)\cdot c$
$(c=7)$
$=70$

11. $u+x+1+u$
$(x=10, u=2)$
$=15$

12. $\left((x-x)^4\right)^4$
$(x=4)$
$=0$

13. $c\div v(c-v)$
$(c=5, v=1)$
$=20$

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

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

Evaluating Expressions (F)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (F) Answers

Evaluate each expression using the values given.

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

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

3. $(zb \div b)^2$
   $(z = 4, b = 2)$
   $= 16$

4. $6 + y + y - 3$
   $(y = 9)$
   $= 21$

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

6. $10 \div (a \div z) - 3$
   $(a = 10, z = 4)$
   $= 1$

7. $(2(u - u))^3$
   $(u = 10)$
   $= 0$

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

9. $6 - (x + 6 - x)$
   $(x = 2)$
   $= 0$

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

11. $4 \cdot 2 \div (x \div x)$
    $(x = 2)$
    $= 8$

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

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

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

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

Evaluating Expressions (G)

Evaluate each expression using the values given.

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

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

3. $u - \left(1^3 - 1\right)$
   $(u = 1)$

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (G) Answers

Evaluate each expression using the values given.

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

2. $10 - a \cdot 6 \div a$
$(a=5)$
$= 4$

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

4. $4 \cdot 7 \cdot c^4$
$(c=1)$
$= 28$

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

6. $v + c - (c+1)$
$(c=4, v=8)$
$= 7$

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

8. $v + 8 + v + v$
$(v=7)$
$= 29$

9. $x(c-c) \cdot x$
$(x=3, c=6)$
$= 0$

10. $a + 8 + 6 - a$
$(a=3)$
$= 14$

11. $(x+2x)^2$
$(x=2)$
$= 36$

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

13. $2 \div (z - (z-2))$
$(z=6)$
$= 1$

14. $(4 \div (3-v))^3$
$(v=2)$
$= 64$

15. $(v+1) \cdot 1^2$
$(v=7)$
$= 8$

Evaluating Expressions (H)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (H) Answers

Evaluate each expression using the values given.

1. $(y-4)\cdot 5+y$
$(y=9)$
$=34$

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

3. $4\cdot 3-(5-y)$
$(y=2)$
$=9$

4. $c\cdot(u-4)\div 10$
$(c=5,u=6)$
$=1$

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

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

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

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

9. $7-(z\div u-1)$
$(z=2,u=1)$
$=6$

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

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

12. $(a-4)\div(z-a)$
$(a=4,z=9)$
$=0$

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

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

15. $y+3+y^3$
$(y=4)$
$=71$

Evaluating Expressions (I)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (I) Answers

Evaluate each expression using the values given.

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

2. $a \cdot a + 9 + y$
$(a = 3, y = 2)$
$= 20$

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

4. $9 - y \div (y \div 1)$
$(y = 9)$
$= 8$

5. $(10 \div 1 - y) \div y$
$(y = 1)$
$= 9$

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

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

8. $z + 9 + u + 6$
$(z = 10, u = 3)$
$= 28$

9. $z - (c + z - c)$
$(c = 6, z = 10)$
$= 0$

10. $x \div (10 - c) + 3$
$(x = 4, c = 8)$
$= 5$

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

12. $u + u^3 - a$
$(a = 9, u = 4)$
$= 59$

13. $7\left(4^2 - y\right)$
$(y = 4)$
$= 84$

14. $y + 9 + y + 4$
$(y = 10)$
$= 33$

15. $u - (1 - (a - a))$
$(a = 6, u = 8)$
$= 7$

Evaluating Expressions (J)

Evaluate each expression using the values given.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Evaluating Expressions (J) Answers

Evaluate each expression using the values given.

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

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

3. $(9 - x \div 3) \cdot 6$
$(x = 2)$
$= 50$

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

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

6. $9 (z - u \div u)$
$(z = 5, u = 7)$
$= 36$

7. $(8 (y - y))^4$
$(y = 7)$
$= 0$

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

9. $4 (1 + z) \cdot 5$
$(z = 4)$
$= 100$

10. $7 - a - a^2$
$(a = 2)$
$= 1$

11. $(7 - u) \div 2 \cdot 6$
$(u = 1)$
$= 18$

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

13. $10 \cdot b \div (v - 1)$
$(b = 1, v = 6)$
$= 2$

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

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