

Evaluating Expressions Homework

Name Answer Key

Evaluate each expression.

<p>1. <math>7b</math>, for <math>b = -5</math></p> $7(-5)$ $\underline{-35}$	<p>2. <math>5 - c</math>, for <math>c = -3</math></p> $5 - (-3)$ $5 + 3$ $\underline{8}$
<p>3. <math>3n + 2</math>, for <math>n = 7</math></p> $3(7) + 2$ $21 + 2$ $\underline{23}$	<p>4. <math>41 - 4h</math>, for <math>h = 10</math></p> $41 - 4(10)$ $41 - 40 = \underline{1}$
<p>5. <math>\frac{x}{8}</math>, for <math>x = -40</math></p> $\frac{(-40)}{8} = \underline{-5}$	<p>6. <math>5a + 7</math>, for <math>a = 20</math></p> $5(20) + 7$ $100 + 7 = \underline{107}$

Evaluate each expression for  $x = 2$ ,  $y = -3$ , and  $z = 10$

<p>7. <math>xyz</math></p> $(2)(-3)(10)$ $-6(10) = \underline{-60}$	<p>8. <math>4y - z</math></p> $4(-3) + (-10)$ $-12 + -10$ $\underline{-22}$
<p>9. <math>2z + xy</math></p> $2(10) + (2)(-3)$ $20 + (2)(-3)$ $20 + (-6) = \underline{14}$	<p>10. <math>\frac{8y}{x} - z</math></p> $\frac{8(-3)}{(2)} - (10) = \frac{-24}{2} - 10$ $-12 - 10 = \underline{-22}$
<p>11. <math>\frac{z}{5} + 2</math></p> $\frac{(10)}{5} + 2 = 2 + 2 = \underline{4}$	<p>12. <math>\frac{9+y}{x}</math></p> $\frac{9 + (-3)}{(2)} = \frac{6}{2} = \underline{3}$

Evaluate each expression for  $d = 8$ ,  $e = 3$ ,  $f = -4$ , and  $g = -1$

<p>13. <math>7e + 2d</math></p> $7(3) + 2(8)$ $21 + 16$ $\underline{37}$	<p>14. <math>7e^2 + 5</math></p> $7(3)^2 + 5$ $7 \cdot 3 \cdot 3 + 5$ $7 \cdot 9 + 5 = 63 + 5 = \underline{68}$
<p>15. <math>6f^2</math></p> $6(-4)^2$ $6 \cdot (-4) \cdot (-4)$ $6 \cdot 16$ $\underline{96}$	<p>16. <math>\frac{(5+g)^2}{2}</math></p> $\frac{(5 + (-1))^2}{2} = \frac{(4)^2}{2} = \frac{16}{2} = \underline{8}$