ANSWER KEY Extra Practice: 4.3 Evaluating Variable Expressions

Evaluate each using the values given.

1) $j + 5 + h$; use $h = 5$, and $j = 5$

$5+5+5$

$= 15$

2) $pn + 1$; use $n = 5$, and $p = 2$

$2(5)+1$

$10+1$

$= 11$

3) $(p)(4 + m)$; use $m = 3$, and $p = 2$

$2(4+3)$

$2(7)$

$= 14$

4) $b + \frac{c}{2}$; use $b = 6$, and $c = 2$

$6 + \frac{2}{2}$

$6+1=7$

5) $(q + 2)(m - p)$; use $m = 4$, $p = 1$, and $q = 3$

$(3+2)(4-1)$

$5(3)$

$=15$

6) $x - \left(\frac{y}{6}\right)^3$; use $x = 3$, and $y = 6$

$3-\left(\frac{6}{6}\right)^3$

$3-1 = 2$

7) $(h)\left(\frac{j^3}{4}\right)$; use $h = 4$, and $j = 2$

$4\left(\frac{2^3}{4}\right)$

$4\left(\frac{8}{4}\right)$

$4 \cdot 2 = 8$

8) $y + \left(\frac{z}{4}\right)^2 + y$; use $y = 1$, and $z = 4$

$1+\left(\frac{4}{4}\right)^2+1$

$1+1+1=3$

9) $b + b + a - \frac{a}{3}$; use $a = 3$, and $b = 4$

$4+4+3-\frac{3}{3}$

$4+4+3-1$

$=11$

10) $x^2 - (y + y - y)$; use $x = 3$, and $y = 5$

$3^2-(5+5-5)$

$9-(5)$

$=4$