

**ANSWER KEY** Extra Practice: 4.3 Evaluating Variable Expressions

Evaluate each using the values given.

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

$$\begin{aligned} & 5+5+5 \\ & = 15 \end{aligned}$$

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

$$\begin{aligned} & 2(5)+1 \\ & = 10+1 \\ & = 11 \end{aligned}$$

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

$$\begin{aligned} & 2(4+3) \\ & = 2(7) \\ & = 14 \end{aligned}$$

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

$$\begin{aligned} & 6+\frac{2}{2} \\ & = 6+1=7 \end{aligned}$$

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

$$\begin{aligned} & (3+2)(4-1) \\ & = 5(3) \\ & = 15 \end{aligned}$$

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

$$\begin{aligned} & 3-\left(\frac{6}{6}\right)^3 \\ & = 3-1=2 \end{aligned}$$

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

$$\begin{aligned} & 4\left(\frac{2^3}{4}\right) \\ & = 4\left(\frac{8}{4}\right) \\ & = 4 \cdot 2 = 8 \end{aligned}$$

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

$$\begin{aligned} & 1+\left(\frac{4}{4}\right)^2+1 \\ & = 1+1+1=3 \end{aligned}$$

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

$$\begin{aligned} & 4+4+3-\frac{3}{3} \\ & = 4+4+3-1 \\ & = 11 \end{aligned}$$

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

$$\begin{aligned} & 3^2-(5+5-5) \\ & = 9-(5) \\ & = 4 \end{aligned}$$