

LESSON

1-5**Practice C****Evaluating Algebraic Expressions**

Evaluate each expression for the given values of the variable.

1. $3n + 4n$ for $n = 8$

3. $q^2 + 5q - 11$ for $q = 4$

5. $9x + 2x^2 + 2$ for $x = 2$

7. $4(h + k)$ for $h = 3$ and $k = 55$

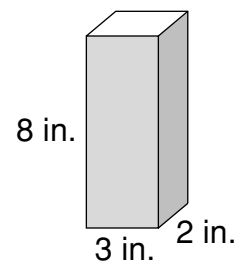
9. $6a - 2b^2$ for $a = 9$ and $b = 5$

11. $\frac{36}{m^2} + \frac{n^2}{4}$ for $m = 6$ and $n = 16$

13. $4d^3 + 6e^2 - \frac{4f}{3}$ for $d = 2$, $e = 3$ and $f = 6$

14. $\frac{5r^2}{4} + \frac{4s}{6t}$ for $r = 4$, $s = 9$ and $t = 2$

15. You can find the volume of a rectangular prism with the expression $a \cdot b \cdot c$, where a is the length, b is the width, and c is the height of the prism. What is the volume of the prism at the right in cubic inches?



16. You can use the expression $5m$ to find out how many seconds it takes a sound to travel m miles through the air. However, through water, sound takes m seconds to travel m miles. Use the expression $5m - m$ to find out how much longer will it take a sound to travel 8 miles in air than in water.