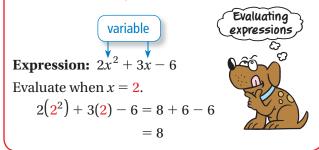
REVIEW: Evaluating Algebraic Expressions

Name

Key Concept and Vocabulary



Skill Examples

- 1. When x = 5, 3x + 4 is 3(5) + 4 = 19.
- **2.** When x = -1, 5x + 7 is 5(-1) + 7 = 2.
- **3.** When x = 3, $4x^2$ is $4(3^2) = 36$.
- 4. When x = 4, $x^3 + 1$ is $4^3 + 1 = 65$.

Visual Model

x	2 <i>x</i> + 3	Value of Expression
1	2(1) + 3	5
2	2(<mark>2</mark>) + 3	7
3	2(3) + 3	9
4	2(4) + 3	11

Application Example

5. For a Celsius temperature *C*, the Fahrenheit temperature F is $\frac{9}{5}C + 32$. Find *F* when $C = 25^{\circ}$. $\frac{9}{5}C + 32 = \frac{9}{5}(25) + 32$ = 45 + 32= 77

• The Fahrenheit temperature is 77°.

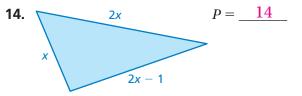
Check your answers at BigIdeasMath.com.

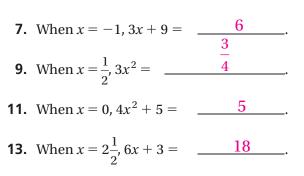
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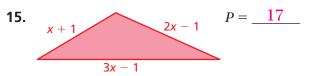
Evaluate the expression.

- 6. When x = 2, 3x 1 = 5.
- 8. When x = 4, $x^2 5 = 11$.
- **10.** When x = 3.1, 5x + 0.5 = 16.
- **12.** When x = 10, $x^2 8x + 11 = 31$.

Evaluate the perimeter when x = 3.







16. CARDINAL The weight of the cardinal (in ounces) is 0.6x + 11 after its eats *x* ounces of bird seed. How much does it weigh after it eats 2 ounces of bird seed? **12.2 oz**

