

SKILL

60

Skills Readiness**Evaluate Expressions**

To evaluate a variable expression, replace the variable(s) with the given value(s) and use the order of operations to simplify.

Example 1: Evaluate $10y + 3$ for $y = 6$.

$$10y + 3 = 10(6) + 3$$

$$= 60 + 3$$

$$= 63$$

Replace y with 6 since 6 is the given value.

Order of operations says to multiply first.

Add.

Example 2: Evaluate $-6p - 15$ for $p = -4$.

$$-6p - 15 = -6(-4) - 15$$

$$= 24 - 15$$

$$= 9$$

Replace p with -4 since -4 is the given value.

Order of operations says to multiply first.

Subtract.

Practice on Your Own

Evaluate each expression for the given value of the variable.

1. $7x + 1$ for $x = 5$

2. $8m - 12$ for $m = 5$

3. $2y + 9$ for $y = -6$

4. $6p - 3$ for $p = -4$

5. $27 - 9x$ for $x = 2$

6. $10 + 4q$ for $q = -3$

7. $-7c + 11$ for $c = 3$

8. $\frac{1}{3}t + 5$ for $t = 9$

9. $\frac{1}{2}m - 16$ for $m = 20$

Check

Evaluate each expression for the given value of the variable.

10. $2n - 3$ for $n = 9$

11. $x + 7$ for $x = -5$

12. $15 - 3h$ for $h = 5$

13. $15 - 7m$ for $m = 3$

14. $-5a - 9$ for $a = -1$

15. $\frac{1}{2}y + (-4)$ for $y = 12$
