Lesson

Extra Practice

Write the product using exponents.

1.
$$\frac{3}{8} \cdot \frac{3}{8} \cdot \frac{3}{8} \cdot \frac{3}{8} \cdot \frac{3}{8} \cdot \frac{3}{8}$$

5.
$$-\left(\frac{2}{7} \cdot \frac{2}{7} \cdot \frac{2}{7} \cdot \frac{2}{7} \cdot \frac{2}{7} \cdot \frac{2}{7} \cdot \frac{2}{7} \cdot \frac{2}{7}\right)$$

4.
$$-(1.4 \cdot 1.4 \cdot 1.4)$$

6.
$$\left(-\frac{1}{5}\right) \cdot \left(-\frac{1}{5}\right) \cdot \left(-\frac{1}{5}\right) \cdot \left(-\frac{1}{5}\right)$$

Evaluate the expression.

7.
$$-1.8^2$$

9.
$$\left(-\frac{6}{7}\right)^4$$

8.
$$\left(\frac{4}{9}\right)^3$$

12.
$$-\left(\frac{2}{5}\right)^5$$

$$\left(\frac{3}{5}\right)^3 = \frac{3^3}{5^3} = \frac{9}{15}$$

Simplify each expression. Write your answer as a power.

14.
$$\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^7$$

15.
$$(1.9^6)^2$$

16.
$$\frac{(-1.46)^7}{(-1.46)^3}$$

17.
$$\left(\frac{3}{8}\right)^0 \cdot \left(\frac{4}{5}\right)^6$$

18.
$$\left(-\frac{2}{7}\right)^2 \cdot \left(-\frac{2}{7}\right)^8$$

19.
$$\frac{3.4^5}{3.4^2}$$

20.
$$(0.26^3)^9$$

21.
$$\left(\frac{2}{9}\right)^9 \cdot \left(\frac{3}{4}\right)^0$$

22. The area of the rectangle is 1.6^9 square centimeters. Find the width of the rectangle.

