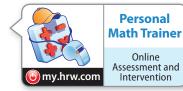
# Are Ready

Complete these exercises to review skills you will need for this module.



# **Exponents**

**EXAMPLE** 
$$6^3 = 6 \times 6 \times 6$$

$$= 36 \times 6$$

$$= 216$$

Multiply the base (6) by itself the number of times indicated by the exponent (3).

Find the product of the first two terms.

Find the product of all the terms.

#### Evaluate each exponential expression.

**1.** 
$$11^2$$
 \_\_\_\_\_ **2.**  $2^5$  \_\_\_\_\_ **3.**  $\left(\frac{1}{5}\right)^3$  \_\_\_\_ **4.**  $(0.3)^2$  \_\_\_\_\_

**5.** 
$$2.1^3$$
 \_\_\_\_\_ **6.**  $0.1^3$  \_\_\_\_\_ **7.**  $\left(\frac{9.6}{3}\right)^2$  \_\_\_\_\_ **8.**  $100^3$  \_\_\_\_\_

## **Round Decimals**

#### **EXAMPLE**

Round 43.2685 to the underlined place.

43.2685 → 43.27

The digit to be rounded: 6 The digit to its right is 8. 8 is 5 or greater, so round up. The rounded number is 43.27.

### Round to the underlined place.

# **Simplify Numerical Expressions**

**EXAMPLE** 
$$\frac{1}{3}$$
 (3.14) (4)<sup>2</sup> (3) =  $\frac{1}{3}$  (3.14) (16) (3) Simplify the exponent.

Multiply from left to right.

## Simplify each expression.

**17.** 3.14 (5)<sup>2</sup> (10) \_\_\_\_\_ **18.** 
$$\frac{1}{3}$$
 (3.14) (3)<sup>2</sup> (5) \_\_\_\_\_ **19.**  $\frac{4}{3}$  (3.14) (3)<sup>3</sup> \_\_\_\_\_

**19.** 
$$\frac{4}{3}(3.14)(3)^3$$

**20.** 
$$\frac{4}{3}$$
 (3.14) (6)<sup>3</sup>

**20.** 
$$\frac{4}{3}(3.14)(6)^3$$
 **21.**  $3.14(4)^2(9)$  **22.**  $\frac{1}{3}(3.14)(9)^2(\frac{2}{3})$