

Name \_\_\_\_\_ Date \_\_\_\_\_

**Study Link**  
**1-3**

## Exponential Notation

1. Write the following in exponential form (e.g.,  $100 = 10^2$ ).

- a.  $1000 =$  \_\_\_\_\_
- b.  $10 \times 10 =$  \_\_\_\_\_
- c.  $100,000 =$  \_\_\_\_\_
- d.  $100 \times 10 =$  \_\_\_\_\_
- e.  $1,000,000 =$  \_\_\_\_\_
- f.  $10,000 \times 10 =$  \_\_\_\_\_

2. Write the following in standard form (e.g.,  $4 \times 10^2 = 400$ ).

- a.  $4 \times 10^3 =$  \_\_\_\_\_
- b.  $64 \times 10^4 =$  \_\_\_\_\_
- c.  $5,300 \div 10^6 =$  \_\_\_\_\_
- d.  $5,300,000 \div 10^4 =$  \_\_\_\_\_
- e.  $6.072 \times 10^3 =$  \_\_\_\_\_
- f.  $60.72 \times 10^4 =$  \_\_\_\_\_
- g.  $948 \div 10^3 =$  \_\_\_\_\_
- h.  $9.4 \div 10^2 =$  \_\_\_\_\_

4. After a lesson on exponents, Tia went home and said to her mom, "I learned that  $10^4$  is the same as 40,000." She has made a mistake in her thinking. Use words, numbers, or a place value chart to help Tia correct her mistake.