

1. $10 \times 10 \times 10 =$

2.	12	×	12	=	

Write each power as a product of the same factor. Then find the value.

- **3.** 3⁷ = _____
- **4.** 10⁶ = _____

Write the prime factorization of each number using exponents.

5. 20 = _____ **6.** 50 = _____



- 7. PRACTICE Description Look for a Pattern The Newfoundland is a large breed of dog. It weighs about 10 × 10 pounds. Write 10 × 10 using an exponent. Then find the value of the power. How many pounds does the Newfoundland weigh?
- 8. The area of San Bernardino County, California, the largest county in the United States, is about 3° square miles. Write this as an expression. What is the area of San Bernardino County?

Vocabulary Check

Fill in each blank with the correct term or number to complete each sentence.

- 9. Numbers expressed using exponents are called _____
- **10.** The exponent indicates how many times the _ is used as a factor.

Test Practice

- **11.** A 100-pound person on Earth would weigh about $4 \times 4 \times 4 \times 4$ pounds on Jupiter. Evaluate the expression to determine how much a 100-pound person would weigh on Jupiter.
 - A 16 pounds
 C 256 pounds
 - B 64 pounds
 D 1,024 pounds

