

# Lesson 1.1 Using Exponents

Write each power as a product of the factors.

**a****b****c**

1.  $9^2$  \_\_\_\_\_

$58^1$  \_\_\_\_\_

$4^3$  \_\_\_\_\_

2.  $5^4$  \_\_\_\_\_

$8^2$  \_\_\_\_\_

$3^4$  \_\_\_\_\_

3.  $75^2$  \_\_\_\_\_

$6^2$  \_\_\_\_\_

$10^{10}$  \_\_\_\_\_

Use exponents to rewrite these expressions.

**a****b**

4.  $8$  \_\_\_\_\_

$13 \times 13$  \_\_\_\_\_

5.  $6 \times 6 \times 6 \times 6$  \_\_\_\_\_

$5 \times 5 \times 5 \times 5$  \_\_\_\_\_

6.  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$  \_\_\_\_\_

$3 \times 3 \times 3$  \_\_\_\_\_

7.  $86 \times 86 \times 86$  \_\_\_\_\_

$4 \times 4 \times 4 \times 4 \times 4$  \_\_\_\_\_

8.  $10 \times 10 \times 10 \times 10 \times 10$  \_\_\_\_\_

$15 \times 15 \times 15 \times 15 \times 15$  \_\_\_\_\_

Find the value of each expression.

**a****b****c**

9.  $7^1 =$  \_\_\_\_\_

$3^4 =$  \_\_\_\_\_

$10^5 =$  \_\_\_\_\_

10.  $7^5 =$  \_\_\_\_\_

$5^3 =$  \_\_\_\_\_

$8^4 =$  \_\_\_\_\_

11.  $4^2 =$  \_\_\_\_\_

$2^5 =$  \_\_\_\_\_

$9^7 =$  \_\_\_\_\_

12.  $6^4 =$  \_\_\_\_\_

$12^3 =$  \_\_\_\_\_

$7^3 =$  \_\_\_\_\_