

# Lesson 1 Homework Practice

## *Powers and Exponents*

Write each product using an exponent.

1.  $20 \times 20$

2.  $4 \times 4 \times 4 \times 4$

3.  $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

4.  $3 \times 3 \times 3 \times 3 \times 3$

5.  $10 \times 10 \times 10$

6.  $7 \times 7 \times 7 \times 7 \times 7 \times 7$

7.  $25 \times 25 \times 25$

8.  $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5$

9.  $6.5 \times 6.5$

10. **SUN** The surface temperature of the sun is close to  $10 \times 10 \times 10 \times 10$  degrees Fahrenheit. Write this product using an exponent.

11. **BONES** There are about  $6 \times 6 \times 6$  bones in the adult human body. Write this product using an exponent.

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

12.  $15^3$

13.  $6^5$

14.  $0^4$

15.  $7^4$

16.  $5^5$

17.  $1^8$

18.  $3.5^2$

19.  $2.5^3$

20. **NEWSPAPERS** Tamika delivered  $50^2$  newspapers last summer. Write  $50^2$  as a product of the same factor. Then find the value.

21. **POPULATION** One of the world's smallest countries, Vatican City, has a population less than  $10^3$  people. About how many people live in this country?