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.

14.
$$0^4$$

- 20. NEWSPAPERS Tamika delivered 50² newspapers last summer. Write 50² 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 10³ people. About how many people live in this country?