Name _____

Exponents

Use one or more exponents to write the expression.

1. 6×6

$$6^2$$

2. $11 \times 11 \times 11 \times 11$

3. $9 \times 9 \times 9 \times 9 \times 7 \times 7$

Find the value.

4. 9^2

5. 6^4

6. 1^6

7. 5^3

8. 10^5

9. 23^2

10. Write 144 with an exponent by using 12 as the base.

11. Write 343 with an exponent by using 7 as the base.

Problem Solving Real World

12. Each day Sheila doubles the number of push-ups she did the day before. On the fifth day, she does $2 \times 2 \times 2 \times 2 \times 2$ push-ups. Use an exponent to write the number of push-ups Shelia does on the fifth day.

13. The city of Beijing has a population of more than 10^7 people. Write 10^7 without using an exponent.