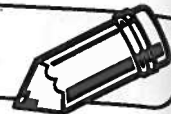


LESSON
7•1

Exploring Exponents



The number sentences below contain **exponents**. Find the pattern, and complete the number sentences.

1. $3 * 3 = 3^2$

$3 * 3 * 3 = 3^3$

$3 * 3 * 3 * 3 = 3^4$

2. $5 * 5 = 5^2$

$5 * 5 * 5 = 5^3$

$5 * 5 * 5 * 5 = 5^4$

3. $18 * 18 = 18^2$

$18 * 18 * 18 = 18^3$

$18 * 18 * 18 * 18 = 18^4$

4. $7 * 7 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = 7^3$

$7 * 7 * 7 * 7 = \underline{\hspace{2cm}}$

5. $4 * 4 * 4 * 4 * 4 * 4 * 4 = \underline{\hspace{2cm}}$

6. $2^6 = \underline{\hspace{4cm}}$

7. If you were going to explain to someone how to use exponents to write a number, what would you say?

Try This

Write the repeated-factor expression or the exponential notation.



8. $28^6 = \underline{\hspace{4cm}}$

9. $309 * 309 * 309 * 309 * 309 = \underline{\hspace{4cm}}$

10. $2^3 * 2^3 = \underline{\hspace{4cm}}$