Name		Lesson 7.1
Exponents		COMMON CORE STANDARD —6.EE.1 Apply and extend previous understandings of arithmetic to algebraic expressions.
Use one or more exponen	nts to write the expression.	
1. 6 × 6	2. $11 \times 11 \times 11 \times 11$	3. $9 \times 9 \times 9 \times 9 \times 7 \times 7$
6 ²		
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 exp	onent by using 12 11 . Wri	ite 343 with an exponent by using

as the base.

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

Problem Solving (Real

- **12.** Each day Sheila doubles the number of push-ups she did the day before. On the fifth day, she does $2 \times 2 \times 2 \times 2 \times 2 \times 2$ 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 10⁷ people. Write 10⁷ without using an exponent.