Represent Numbers with Exponents

✓ Self-Check: Questions 10–12

Use Self-Check: Questions 10–12 and the Workshop Menu to review your progress with exponents.

10. Complete the missing information in the table.

Number Sentence	Number with Exponent	Product
$2 \times 2 \times 2 \times 2$	2^4	16
	3^3	
5×5		25
$4 \times 4 \times 4 \times 4 \times 4$		
	10^5	100,000

11. A. What is the base and the exponent in 5^4?

B. What is the base and the power in 7^3?

C. Solve $6^5 = n$. Explain how the exponent helps you solve this problem.

Workshop: Represent Large Numbers

12. There are 13 national parks in Colorado. Use what you know about multiplying by multiples of 10 using exponents to find out more about these parks.

A. About 6×10^6 people visited the national parks in Colorado in 2012. About how many people visited?

B. Since 1995, about 4×10^8 dollars was spent on historic rehabilitation projects. About how much money was spent on these projects since 1995?

C. Volunteers donate about 2×10^5 hours each year in the national parks of Colorado. About how many hours per year are donated by volunteers?

D. About 6×10^7 dollars was received from Land and Water Conservation Fund Grants since 1965. How about how much money was received from Land and Water Conservation Fund Grants since 1965?

Workshop Menu: Use Exponents			
Can I Do This?	▲ **Working On It!** I could use some extra help. Peter	● **Getting It!** I just need some more practice. Jackie	■ **Got It!** I'm ready for a challenge. Tanya
Represent numbers with exponents.	Question 13	Questions 14–15	Questions 14–15
Multiply numbers that are multiples of ten represented as powers of ten.	Question 16	Question 17	Question 18