Write the product using exponents.

1. (−15) • (−15) • (−15)

2. $\left(\frac{1}{12}\right) \cdot \left(\frac{1}{12}\right) \cdot \left(\frac{1}{12}\right) \cdot \left(\frac{1}{12}\right) \cdot \left(\frac{1}{12}\right)$

Chapter 10 Review

Evaluate the expression.

3. -2^3

4. $10 + 3^3 \div 9$

Simplify the expression. Write your answer as a power.

5. $9^{10} \cdot 9$	6. $(6^6)^5$
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7. $(2 \cdot 10)^7$

8. $\frac{(-3.5)^{13}}{(-3.5)^9}$

Evaluate the expression. 9. $5^{-2} \cdot 5^2$	10. $\frac{-8}{(-8)^3}$	Write the number in standard form. 11. 3×10^7	12. 9.05×10^{-3}	
Evaluate the expression. Write your answer in scientific notation.		Evaluate the expression. Write your answer in scientific notation.		
	14. $(6.4 \times 10^5) - (5.4 \times 10^4)$		16. $(9.6 \times 10^7) \div (1.2 \times 10^{-4})$	

17. CRITICAL THINKING Is $(xy^2)^3$ the same as $(xy^3)^2$? Explain.

19. TASTE BUDS There are about 10,000 taste buds on a human tongue. Write this number in scientific notation.

20. LEAD From 1978 to 2008, the amount of lead allowed in the air in the United States was 1.5×10^{-6} gram per cubic meter. In 2008, the amount allowed was reduced by 90%. What is the new amount of lead allowed in the air?