Practice 4-4 Exponents and Order of Operations

Write each expression using exponents. **1.** $3 \times 3 \times 3 \times 3 \times 3$ **2.** $2.7 \times 2.7 \times 2.7$ **3.** $11.6 \times 11.6 \times 11.6 \times 11.6$ **4.** $2 \times 2 \times 2 \times 2 \times 2 \times 2$ **5.** $8.3 \times 8.3 \times 8.3 \times 8.3 \times 8.3$ _____ **6.** $4 \times 4 \times 4$ Write each expression as the product of repeated factors. Then evaluate each expression. **7.** 0.5³ **8**. 4⁵ **9.** 2.7² **10**. 2³ _____ **11.** 5⁶ _____ **12.** 8.1³ Choose a calculator, paper and pencil, or mental math to evaluate each expression. **13.** -4^3 **14.** $8^3 + 9$ **15.** $11 + 6^3$ **16.** $14 + 16^2$ **18.** $2^5 + 2^3$ **19.** $3^2 \cdot 5^4$ **20.** $6^2 - 2^4$ **17.** $8 + 6^4$ **21.** $4(0.9+1.3)^3$ **22.** $3(1.5-0.2)^3$ **23.** $3^5-(4^2+5)$ **24.** $(3^3+6)-7$ **25.** $5 (0.3 \cdot 1.2)^2$ **26.** $18 \div (1.4 - 0.4)^2$ **27.** $5 (4 + 2)^2$ **28.** $(8 - 6.7)^3$ Circle A, B, or C. **29.** 2^4 4^2 **C**. = **A**. > **B**. < **30.** 3^6 6^3 **A.** > **B**. < **C**. = **31.** 2^5 5^2 **A**. > **B**. < **C**. =