$\qquad$
$\qquad$
$\qquad$

## Practice 4-4 Exponents and Order of Operations

Write each expression using exponents.

1. $3 \times 3 \times 3 \times 3 \times 3$
2. $2.7 \times 2.7 \times 2.7$ $\qquad$
3. $11.6 \times 11.6 \times 11.6 \times 11.6$
4. $2 \times 2 \times 2 \times 2 \times 2 \times 2$ $\qquad$
5. $8.3 \times 8.3 \times 8.3 \times 8.3 \times 8.3$
6. $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$
$\qquad$
Write each expression as the product of repeated factors.
Then evaluate each expression.
7. $0.5^{3}$ $\qquad$
8. $4^{5}$ $\qquad$
9. $2.7^{2}$ $\qquad$
10. $2^{3}$ $\qquad$
11. $5^{6}$ $\qquad$
12. $8.1^{3}$ $\qquad$
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. $14+16^{2}$
17. $8+6^{4}$
$\qquad$
18. $2^{5}+2^{3}$
19. $3^{2} \cdot 5^{4}$
20. $6^{2}-2^{4}$
21. $4(0.9+1.3)^{3}$
22. $3(1.5-0.2)^{3}$
23. $3^{5}-\left(4^{2}+5\right)$
24. $\left(3^{3}+6\right)-7$
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. $2^{4} \square 4^{2}$
A. $>$
B. $<$
C. $=$
30. $3^{6} \quad 6^{3}$
A. $>$
B. $<$
C. =
31. $2^{5} 5^{2}$
A. $>$
B. $<$
C. =
