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## Lesson 1 Homework Practice <br> Powers and Exponents

Write each product using an exponent.

1. $20 \times 20$
2. $4 \times 4 \times 4 \times 4$
3. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

Write each power as a product of the same factor. Then find the value.
4. $15^{3}$
5. $6^{5}$
6. $0^{4}$
7. $1^{8}$

## Lesson 2 Homework Practice

## Numerical Expressions

Find the value of each expression.
8. $34+17-5$
9. $25-14+3$
10. $39 \times(15 \div 3)-16$
11. $(3+7) \times 6+4$
12. $4 \times\left(5^{2}-12\right)-6$
13. $9+7 \times(15+3) \div 3^{2}$
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## Lesson 3 Homework Practice

## Algebra: Variables and Expressions

Evaluate each expression if $\boldsymbol{a}=\mathbf{9}, \boldsymbol{b}=\mathbf{3}$, and $\boldsymbol{c}=\frac{1}{3}$. Write answers as fractions in simplest form.
14. $a^{2} \div 3$
15. $15 b+a^{2}$
16. $b^{2}+4 \cdot 6$
17. $b^{3}+c$
18. $19+6 a \div 2$
19. $4 b^{2} \cdot 3$
20. $3 c \div\left(2 b^{2}\right)$
21. $a^{2}-(3 c)$
22. $a c \div(2 b)$

## Lesson 4 Homework Practice

## Algebra: Write Expressions

Define a variable. Then write each phrase as an algebraic expression.
23. nine less than a number
25. three more pancakes than his brother ate
27.9 minutes less than Frances' time
28. Stacy's pencils split evenly into four piles

