## 1 CHAPTER REVIEW

1.2 Apply Order of Operations

## EXAMPLE

Evaluate $(5+3)^{2} \div 2 \times 3$

$$
\begin{array}{rlrl}
(5+3)^{2} \div 2 \times 3 & =8^{2} \div 2 \times 3 \\
& =64 \div 2 \times 3 & & \text { Add within parentheses. } \\
& =32 \cdot 3 & & \text { Evaluate power. } \\
& =96 & & \text { Divide. } \\
& & \text { Multiply. }
\end{array}
$$

## EXERCISES

## EXAMPLES

1,2 , and 3 on p. 8-9
for Exs. 13-21

## Evaluate the expression.

13. $12-6 \div 2$
14. $1+2 \cdot 9^{2}$
15. $3+2^{3}-6 \div 2$
16. $15-\left(4+3^{2}\right)$
17. $\frac{20-12}{5^{2}-1}$
18. $50-\left[7+\left(3^{2} \div 2\right)\right]$

Evaluate the expression when $x=4$.
19. $15 x-8$
20. $3 x^{2}+4$
21. $2(x-1)^{2}$

Write Expressions

## EXAMPLE

Write an expression for the entry fee in a jazz band competition if there is a base fee of $\$ 50$ and a charge of $\$ 1$ per member.

Write a verbal model. Then translate the verbal model into an algebraic expression. Let $n$ represent the number of band members.


An expression for the entry fee (in dollars) is $50+n$.

## EXERCISES

## EXAMPLES

1,2 , and 3
on pp. 15-16
for Exs. 22-27

Translate the verbal phrase into an expression.
22. The sum of a number $k$ and 7
23. 5 less than a number $z$
24. The quotient of a number $k$ and 12
26. TOLL ROADS A toll road charges trucks a toll of $\$ 3$ per axle. Write an expression for the total toll for a truck.
27. SCHOOL SUPPLIES You purchase some notebooks for $\$ 2.95$ each and a package of pens for $\$ 2.19$. Write an expression for the total amount (in dollars) that you spend.

