CHAPTER REVIEW

1.2	Apply Order of Operations		pp. 8–12
	Example		
	Evaluate $(5+3)^2 \div 2 \times 3$.		
EXAMPLES 1, 2, and 3 on p. 8–9 for Exs. 13–21	$(\mathbf{5+3})^2 \div 2 \times 3 = 8^2 \div 2 \times 3$	Add within parentheses.	
	$= 64 \div 2 \times 3$	Evaluate power.	
	$= 32 \cdot 3$	Divide.	
	= 96	Multiply.	
	EXERCISES Evaluate the expression.		
	13. 12 - 6 ÷ 2	14. $1 + 2 \cdot 9^2$	15. $3 + 2^3 - 6 \div 2$
	16. $15 - (4 + 3^2)$	17. $\frac{20-12}{5^2-1}$	18. $50 - [7 + (3^2 \div 2)]$
	Evaluate the expression when $x = 4$.		
	19. $15x - 8$	20. $3x^2 + 4$	21. $2(x-1)^2$
	Write Expressions		

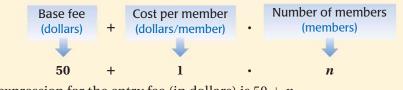
Write Expressions 1.5

pp. 15-20

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

Translate the verbal phrase into an expression.

- **22.** The sum of a number *k* and 7
- **23.** 5 less than a number z

on pp. 15-16 for Exs. 22-27

EXAMPLES 1, 2, and 3

- **24.** The quotient of a number *k* and 12
- **25.** 3 times the square of a number *x*
- 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.