

# Textbook p.272 #8-17

## ✓ CHECK Your Understanding

Examples 1-4 Find the value of each expression.

1.  $9 + 3 - 5$

2.  $10 - 3 + 9$

3.  $(26 + 5) \times 2 - 15$

4.  $18 \div (2 + 7) \times 2 + 1$

5.  $5^2 + 8 \div 2$

6.  $19 - (3^2 + 4) + 6$

Example 5 7. **THEATER** Tickets to a play cost \$10 for members and \$24 for nonmembers. Write an expression to find the total cost of 4 nonmember tickets and 2 member tickets. Then find the total cost.

## Practice and Problem Solving

● = Step-by-Step Solutions begin on page R1.  
Extra Practice begins on page EP2.

Examples 1-4 Find the value of each expression.

8.  $8 + 4 - 3$

9.  $9 + 12 - 15$

10.  $38 - 19 + 12$

11.  $22 - 17 + 8$

12.  $7 + 9 \times (3 + 8)$

13.  $(9 + 2) \times 6 - 5$

14.  $63 \div (10 - 3) \times 3$

15.  $66 \times (6 \div 2) + 1$

16.  $27 \div (3 + 6) \times 5 - 12$

17.  $55 \div 11 + 7 \times (2 + 14)$

18.  $5^3 - 12 \div 3$

19.  $26 + 6^2 \div 4$

20.  $15 - 2^3 \div 4$

21.  $22 \div 2 \times 3^2$

Example 5 22. **TICKETS** Admission to a circus is \$16 for adults and \$10 for children. Write an expression to find the total cost of 3 adult tickets and 4 children's tickets. Then find the total cost.

23. **MOVIES** Tyree and four friends go to the movies. Each person buys a movie ticket for \$7, a snack for \$3, and a drink for \$2. Write an expression for the total cost of the trip to the movies. Then find the total cost.

Find the value of each expression.

24.  $8 \times (2^4 - 3) + 8$

25.  $12 \div 4 + (5^2 - 6)$

26.  $9 + 4^3 \times (20 - 8) \div 2 + 6$

27.  $96 \div 4^2 + (25 \times 2) - 15 - 3$

28. **APPLES** Addison is making caramel apples. She has  $2\frac{1}{2}$  bags of apples. One full bag has 8 apples, and each apple weighs 5 ounces. Write an expression that could be used to find the total number of ounces of apples Addison has. Then find the total number of ounces.

29. **SNACKS** A wholesaler sells rolls of fruit snacks in two sizes of bags. The table shows the number of rolls that come in each bag. Write an expression that could be used to determine the number of rolls in 3 large bags and 2 small bags. Then find the number of rolls.

| Bag   | Number of Rolls |
|-------|-----------------|
| Large | 10              |
| Small | 5               |

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Complete on

looseleaf paper

Show your work !!