

4. The variable expressions in the table on page 106 can represent word phrases other than those given. Write another word phrase for each variable expression.
5. Write a variable expression for each phrase.
  - a. 27 plus a number
  - b. 13 less than a number
  - c. the quotient of a number divided by negative 10
  - d. the product of 17 and a number

**S**ometimes variable expressions contain more than one mathematical operation.

**Example** You can represent the cost of a trip with Rod's Limo by the expression  $1.5 + 2n$ , where  $n$  is the number of miles you travel. How much does a 12-mile trip cost?

Evaluate  $1.5 + 2n$  for  $n = 12$ .

$$\begin{aligned} 1.5 + 2(12) &= 1.5 + 24 && \text{Substitute 12 for } n. \\ &= 25.5 && \text{Compute.} \end{aligned}$$

A 12-mile trip costs \$25.50.

6. a. What mathematical operations are used in  $1.5 + 2n$ ?
- b. Write a word phrase for the variable expression  $1.5 + 2n$ .

### TRY THESE

Write a variable expression for each quantity. Explain what the variable represents.

7. Kim's height if she is 6 inches shorter than her mother
8. the number of calories in three slices of bread
9. Mike's age if Mike is 3 years older than Jill
10. the number of months old Eric is on his birthday

Write a variable expression for each phrase.

- |                             |                                  |
|-----------------------------|----------------------------------|
| 11. twice a number          | 12. sum of $-12$ and a number    |
| 13. product of $-4$ and $y$ | 14. quotient of 3 divided by $w$ |
| 15. 18 more than $a$        | 16. 17 less than $n$             |



### Mixed REVIEW

Find the mode.

1. 14, 31, 33, 14, 50
2. 8, 17, 34, 17, 19

Compare. Use  $>$ ,  $<$ , or  $=$ .

3.  $-7$   $\blacksquare$   $7$
4.  $|-32|$   $\blacksquare$   $32$

5. The attendance at a medical lecture was 342 on Monday and 1257 on Tuesday. Find the total attendance.

6. It takes Cara 12 min to walk to school. She needs to get to school 15 min early to meet with the swim coach. What time should she leave her house if school starts at 8:00?