### **SKILL PRACTICE**

- 1. VOCABULARY Give an example of an open sentence.
- **2. WRITING** *Describe* the difference between an expression and an equation.

#### **EXAMPLE 1**

on p. 21 for Exs. 3–16

#### WRITING OPEN SENTENCES Write an equation or an inequality.

- **3.** The sum of 42 and a number n is equal to 51.
- **4.** The difference of a number z and 11 is equal to 35.
- **5.** The difference of 9 and the quotient of a number *t* and 6 is 5.
- **6.** The sum of 12 and the quantity 8 times a number k is equal to 48.
- 7. The product of 9 and the quantity 5 more than a number *t* is less than 6.
- **8.** The product of 4 and a number w is at most 51.
- **9.** The sum of a number b and 3 is greater than 8 and less than 12.
- 10. The product of 8 and a number k is greater than 4 and no more than 16.
- 11. The difference of a number *t* and 7 is greater than 10 and less than 20.

#### **STORE SALES** Write an inequality for the price p (in dollars) described.

12.



13.



## **ERROR ANALYSIS** *Describe* and correct the error in writing the verbal sentence as an equation or an inequality.

- **14.** The sum of a number *n* and 4 is no more than 13.
- **15.** The quotient of a number *t* and 4.2 is at most 15.





- **16. TAKS REASONING** Which equation corresponds to the sentence "The product of a number b and 3 is no less than 12"?
  - **(A)** 3b < 12
- **(B)**  $3b \le 12$
- **(c)** 3b > 12
- **(D)**  $3b \ge 12$

#### **EXAMPLE 2**

on p. 22 for Exs. 17–28

# **CHECK POSSIBLE SOLUTIONS** Check whether the given number is a solution of the equation or inequality.

17. 
$$x + 9 = 17:8$$

**18.** 
$$9 + 4y = 17$$
; 1

**19.** 
$$6f - 7 = 29:5$$

**20.** 
$$\frac{k}{5} + 9 = 11; 10$$

**21.** 
$$\frac{r}{3} - 4 = 4$$
; 12

**22.** 
$$\frac{x-5}{3} \ge 2.8$$
; 11

**23.** 
$$15 - 4y > 6$$
; 2

**24.** 
$$y - 3.5 < 6$$
; 9

**25.** 
$$2 + 3x \le 8$$
; 2

**26.** 
$$2p - 1 \ge 7$$
; 3

**27.** 
$$4z - 5 < 3$$
: 2

**28.** 
$$3z + 7 > 20$$
; 4