

Name \_\_\_\_\_

**3-4B Lesson Master****Questions on SPUR Objectives**

See pages 178–179 for objectives.

**SKILLS** Objective A

In 1–15, solve and check. Show your work.

1.  $5x + 16 = 1$

2.  $-2 + 7a = 19$

3.  $-56 = 12b - 8$

4.  $18 - 11c = -26$

5.  $(5 + d) + -3 = -8$

6.  $(4e + 1) - 7 = 22$

7.  $13 + (2 - f) = -6$

8.  $1\frac{1}{2}g + 3\frac{3}{4} = -2\frac{1}{4}$

9.  $2\frac{3}{8} = \frac{7}{8}h - \frac{1}{4}$

10.  $3.24k + 1.35 = 17.55$

11.  $0.062 = 0.06m - 0.01$

12.  $9n - 5 - 3n = 61$

13.  $4p - 7 + 3p = -7$

14.  $7(r + 6) + 2 = -26$

15.  $4 - 3(w - 1) = 10$

**USES** Objective D

In 16–22, a situation is given.

a. Write an equation to describe the situation and identify what the variable represents.

b. Solve the equation and answer the question.

16. Carter plans to save \$70 a month for a new computer and printer that cost \$1,330 before tax. So far, he has saved \$490. How long will it take him to save enough money to buy the computer and printer?

a. \_\_\_\_\_

b. \_\_\_\_\_

Name \_\_\_\_\_

**3-4B**

page 2

17. Isabella purchased some compact discs on sale for \$16.99 each. She also purchased a new video for \$25.99. The total before tax was \$76.96. How many compact discs did she purchase?
- a. \_\_\_\_\_
- b. \_\_\_\_\_
18. Mrs. Anderson bought a combination pack of printer cartridges for \$49.95 and several packages of printer paper for \$5.99 a package. Her total cost before taxes was \$67.92. How many packages of paper did she buy?
- a. \_\_\_\_\_
- b. \_\_\_\_\_
19. The length of rectangular patio is 16 feet. The present width of the patio is 10 feet, but the owner wants to make the patio wider. How many feet must be added to the width so the new area of the patio is 288 square feet?
- a. \_\_\_\_\_
- b. \_\_\_\_\_
20. A local hardware store sells  $4 \times 4$  sheets of plywood for \$6.79 each. Before tax, Daniel spent a total of \$87.25 on plywood and a box of nails that cost \$5.77. How many sheets of plywood did he purchase?
- a. \_\_\_\_\_
- b. \_\_\_\_\_
21. A 150-gallon aquarium contains 20 gallons of water. If it is filled at a rate of 2 gallons per minute, how many minutes will it take to completely fill the aquarium?
- a. \_\_\_\_\_
- b. \_\_\_\_\_
22. A thrift shop sells costumes for  $d$  dollars. Today they are discounted at a rate of \$7 each. Maryellen purchases 3 discounted costumes and a wig that costs \$12. What is the original cost of the costumes if Maryellen spends a total of \$51?
- a. \_\_\_\_\_
- b. \_\_\_\_\_