Lesson Master

Ouestions on SPUR Objectives See pages 178-179 for objectives.

SKILLS Objective A

In 1-10, solve and check. Show your work.

1.
$$7x + -3x = 36$$

2.
$$2(t+5) = 20$$

3.
$$29 = 15w - (4 + 4w)$$

4.
$$r-3+2r=24$$

5.
$$\frac{3n}{5} - \frac{5n}{3} = -14$$

6.
$$\frac{2}{7} = 0.2(c-1)$$

7.
$$20 - 2(v + 41) = -38$$

8.
$$0.57(2.4 + \frac{2}{5}t) = 0.57$$

9.
$$39 = \frac{3}{4}(m - 12) + 9(m - 12)$$

10.
$$50 = -5(3x + 8) - (7x - 24)$$

USES Objective D

In 11-13, a situation is given. a. Write an equation to describe the situation. b. Solve the equation and answer the question.

- 11. During the 1700s, British Navy war ships sold captured ships for prize money. The prize money was split among the captain, officers, and crew. The captain's share was 50% greater than the crew's share, while the officers' share equaled the captain's. Let P be the prize money and C be the crew's share. Assuming a prize of 10,000 pounds sterling, how much is the crew's share?

- 12. A café has 12 tables. From experience, the owner knows that she will earn a \$9 profit on food at each table during dinner. She also knows that she will earn a \$1.50 profit on every drink ordered at each table. If the profit yesterday during dinner was
- \$234, on average, how many drinks were ordered per table?
- 13. Nancy gets a 15% discount on each copy of software she purchases after the first 10 copies. She gets another 20% discount on each copy after 25. On orders over 25, her total cost c is c = P(22.75 + 0.65(n - 25)), where P is the price of the software and n is the number of copies ordered. If Nancy ordered \$3,066.05 worth of software, which sells for \$89 before discounts, how many copies of software did she order?