

Name _____

3-4B Lesson Master

Questions on SPUR Objectives
See Student Edition pages 215–219 for objectives.

SKILLS Objective B

1. Give the standard form for the equation for a line. _____

In 2–13, find an equation for the line with the given information.

2. slope -1, through (4, -3) _____

3. slope $\frac{5}{4}$, through (6, 1) _____

4. through (1, 4) and (-2, -2) _____

5. through (1, 8) and (9, 8) _____

6. slope -4, y -intercept 6 _____

7. slope 3, x -intercept -7 _____

8. through (-3, 2) and (-3, 0) _____

9. slope -3, through (0, 0) _____

10. x -intercept 2, y -intercept 5 _____

11. through (-4, 1) parallel to $4x + 2y = 7$ _____

12. through (5, 5) with undefined slope _____

13. x -intercept 12, parallel to $x - 6y = 10$ _____

USES Objective I

14. Card Carriers charges \$36 to print 1200 business cards and \$56 for 2700 cards. Assume the relationship between the price and the number of business cards is linear.

a. Write an equation giving price as a function of the number of cards printed.

b. Find the set-up cost (the cost for printing 0 cards). _____

c. Find the cost of printing 6000 cards. _____

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15. Last week, Mr. Chinn sold \$20,000 worth of newspaper advertisements and earned \$800. The week before, he sold \$26,000 worth of advertisements and earned \$860. Assume the relationship between Mr. Chinn’s weekly earnings and the value of the advertisements he sells is linear.

a. Write an equation giving Mr. Chinn’s weekly earnings as a function of the value of the advertisements he sells.

b. In this situation, what do the slope and y -intercept mean?

c. If in one week Mr. Chinn sells \$30,000 worth of advertisements, how much will he earn?

USES Objective K

In 16 and 17, Northstreet Disposal Company charges \$30 to send out a truck to pick up debris. For the first 5 cubic yards of debris, the company charges an additional \$10 per cubic yard. For each additional cubic yard, to a maximum of 45 cubic yards, the company charges \$6.

16. What is the cost to have the following amount of debris removed?

- a. 3 cubic yards _____
- b. 6 cubic yards _____
- c. 30 cubic yards _____
- d. 45 cubic yards _____

17. Write an equation that gives the cost c for picking up y cubic yards of debris for the following values of y .

- a. $0 \leq y \leq 5$ _____
- b. $5 < y \leq 45$ _____

REPRESENTATIONS Objective N

18. Refer to the graph at the right. Mort walked to the library where he studied for awhile and then walked home.

- a. How long did Mort stay at the library? _____
- b. Find Mort’s speed in blocks per hour on his way to the library. _____
- c. Find the total distance Mort walked. _____

