Name

6-8B Lesson Master

Questions on SPUR Objectives
See pages 392–395 for objectives.

SKILLS Objective C

In 1–6, rewrite the equation in standard form with integer coefficients.

1. $y = -8x + 5$

2. $y = \frac{3}{8}x - 2$

3. $y = 10 - \frac{7}{4}x$

4. $3y - 7.25x = 6.1$

5. $6.4y = \frac{1}{5}x - 11$

6. $\frac{5}{9}x = y + \frac{2}{3}$

In 7 and 8, an equation in slope intercept form is given. Find an equivalent equation in standard form with integer coefficients.

7. $y = 7x$

8. $y = -5x + 14$

USES Objective F

On December 3, 2006, the Jacksonville Jaguars defeated the Miami Dolphins by a score of 24 to 10. Each team scored only 7 points (touchdown and extra point) or 3 points (field goal).

9. For the Jaguars,
   a. write an equation in standard form that describes the relationship between touchdowns/extra points t and field goals f.
   b. give two solutions to this equation, where t and f are integers.

10. For the Dolphins,
    a. write an equation in standard form that describes the relationship between touchdowns/extra points t and field goals f.
    b. give a solution to this equation, where t and f are integers.

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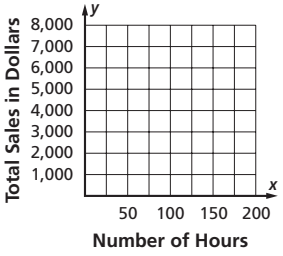
11. A furniture store employee earns \$8 an hour and a 20% commission on his sales. His earnings for one week were \$1,500. Let x = the number of hours the employee worked and y = the amount of his sales.

    a. Write an equation in standard form that describes all the different possible combinations of the hours the employee worked and the amount of his sales. _____

    b. Give three possible pairs of values of x and y. _____

    c. Graph all possible solutions.



    d. If the employee worked 40 hours, what were his sales? _____

    e. Give the coordinates of the point on the graph corresponding to your answer to Part d. _____

12. Nancy went to the Every Blooming Thing garden center and bought small geraniums g for \$1.25 each and perennial plants p for \$3.50 each. She spent \$70, without tax.

    a. Write an equation in standard form that describes the relationship between g and p. _____

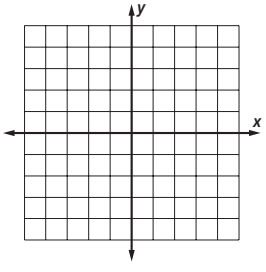
    b. Give three solutions to your equation from Part a. _____

    c. If the \$70 included the cost of 15 perennial plants, how many geraniums did Nancy buy? _____

REPRESENTATIONS Objective H

In 13 and 14, an equation in slope-intercept form is given. Find the *x*- and *y*-intercepts of the graph of the line, and then graph the line.

13. $6x - 2y = 12$



14. $5x + 7y = -35$