

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 .

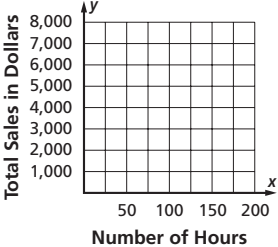
b. give two solutions to this equation, where t and f are integers.
10. For the Dolphins,

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.

Name

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.

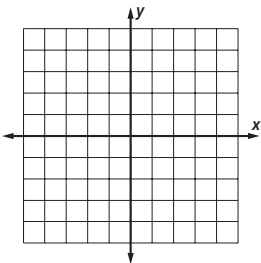
12. Nancy went to the Every Blooming Thing garden center and bought small geraniums g for \$1.25 each and perennial plants p for \$3.50 each. She spent \$70, without tax.
- a. Write an equation in standard form that describes the relationship between g and p .
- b. Give three solutions to your equation 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. $5x + 7y = -35$

