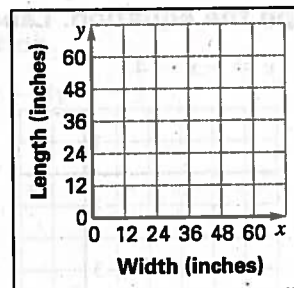


LESSON
4.3
Practice *continued*
 For use with pages 225–232

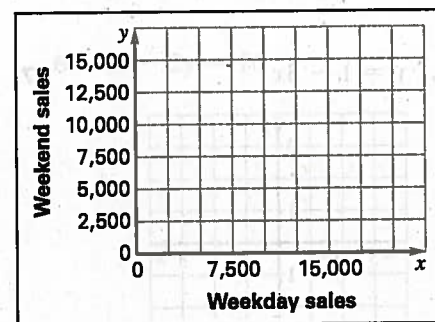
- 25. Rabbit Hutch** The cage that you keep your rabbit in has a perimeter of 118 inches. Let x be the cage's width (in inches) and let y be its length (in inches).

- Write an equation for the perimeter.
- Find the intercepts of the graph of the equation you wrote. Then graph the equation.



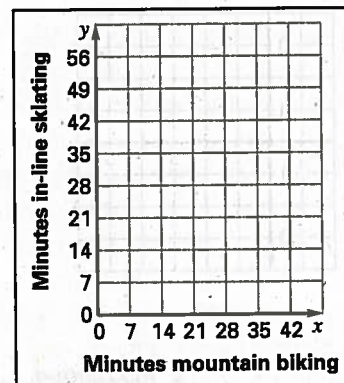
- 26. Home and Garden Show** Admission to a home and garden show costs \$7 per person during the week and \$9 per person on the weekend. During one week of the show, a total of \$142,506 was paid in admissions. This situation can be represented by the equation $7x + 9y = 142,506$ where x is the number of tickets sold during the week and y is the number of tickets sold on the weekend.

- Find the intercepts of the graph of the equation. Graph the equation.
- Give three possibilities for the number of each kind of ticket that could have been sold for the week.



- 27. Burning Calories** A man burns 10 calories per minute mountain biking and 7.5 calories per minute in-line skating. His goal is to burn approximately 420 calories daily. This situation can be represented by the equation $10x + 7.5y = 420$ where x is the number of minutes spent mountain biking and y is the number of minutes spent in-line skating.

- Find the intercepts of the graph of the equation. Graph the equation.



- What do the intercepts mean in this situation?
- What are three possible numbers of minutes of biking and skating the man could do to reach his goal?