- 29. CHALLENGE Data from some countries in North America show a positive correlation between the average life expectancy in a country and the number of personal computers per capita in that country.
 - **a.** Make a conjecture about the reason for the positive correlation between life expectancy and number of personal computers per capita.
 - **b.** Is it reasonable to conclude from the data that giving residents of a country more personal computers will lengthen their lives? *Explain*.



MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW

TAKS Preparation p. 66;

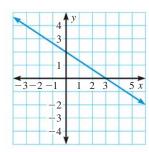
TAKS Workbook

REVIEW

Lesson 2.3; TAKS Workbook 30. TAKS PRACTICE Ted is planting flowers in a rectangular garden. The length of the garden is 55 feet and the perimeter is 150 feet. What is the area of the garden? TAKS Obj. 10

- \bigcirc 900 ft²
- **(B)** 1100 ft^2
- **(C)** 1800 ft^2
- \bigcirc 2025 ft²

- 31. TAKS PRACTICE What is the *y*-intercept of the line shown? TAKS Obj. 3



QUIZ for Lessons 2.4–2.6

Write an equation of the line that satisfies the given conditions. (p. 98)

1. m = -5, b = 3

- **2.** m = 2, b = 12
- **3.** m = 4, passes through (-3, 6)
- **4.** m = -7, passes through (1, -4)
- **5.** passes through (0, 7) and (-3, -2)
- **6.** passes through (-9, 9) and (-9, 0)

Write and graph a direct variation equation that has the given ordered pair as a solution. (p. 107)

- **7.** (1, 2)
- 8. (-2, 8)
- **9.** (5, -16)
- **10.** (12, 4)

The variables x and y vary directly. Write an equation that relates x and y. Then find *y* when x = 8. (p. 107)

- **11.** x = 4, y = 12 **12.** x = -3, y = -8 **13.** x = 40, y = -5 **14.** x = 12, y = 2
- **15. CONCERT TICKETS** The table shows the average price of a concert ticket to one of the top 50 musical touring acts for the years 1999–2004. Write an equation that approximates the best-fitting line for the data pairs (x, y). Use the equation to predict the average price of a ticket in 2010. (p. 113)

Years since 1999, x	0	1	2	3	4	5
Ticket price (dollars), y	38.56	44.80	46.69	50.81	51.81	58.71