GUIDED PRACTICE

for Examples 3, 4, and 5

4. OIL PRODUCTION The table shows the U.S. daily oil production *y* (in thousands of barrels) *x* years after 1994.

x	0	1	2	3	4	5	6	7	8
y	6660	6560	6470	6450	6250	5880	5820	5800	5750

- a. Approximate the best-fitting line for the data.
- **b.** Use your equation from part (a) to predict the daily oil production in 2009.
- **c.** Use a graphing calculator to find and graph an equation of the best-fitting line. Repeat the prediction from part (b) using this equation.

2.6 EXERCISES

 = WORKED-OUT SOLUTIONS on p. WS1 for Exs. 9, 11, and 25
= TAKS PRACTICE AND REASONING Exs. 16, 18, 21, 28, 30, and 31
= MULTIPLE REPRESENTATIONS Ex. 27

Skill Practice

- 1. **VOCABULARY** Copy and complete: A line that lies as close as possible to a set of data points (*x*, *y*) is called the <u>?</u> for the data points.
- **2. WRITING** *Describe* how to tell whether a set of data points shows a positive correlation, a negative correlation, or approximately no correlation.

DESCRIBING CORRELATIONS Tell whether the data have a *positive correlation*, a *negative correlation*, or *approximately no correlation*.

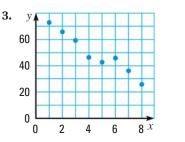
4.

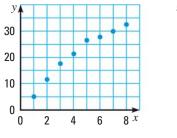
on p. 113 for Exs. 3–5

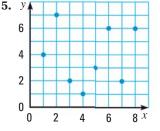
EXAMPLE 2

on p. 114 for Exs. 7–9

EXAMPLE 1







6. REASONING *Explain* how you can determine the type of correlation for a set of data pairs by examining the data in a table without drawing a scatter plot.

CORRELATION COEFFICIENTS Tell whether the correlation coefficient for the data is closest to -1, -0.5, 0, 0.5, or 1.

