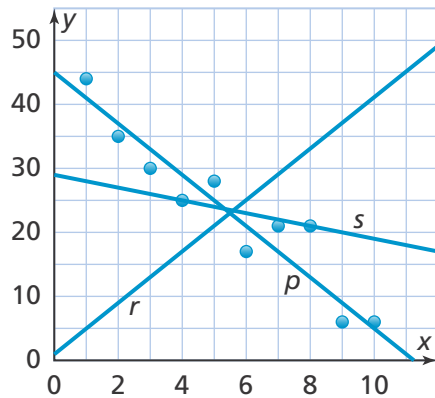# 4-2 Additional Practice
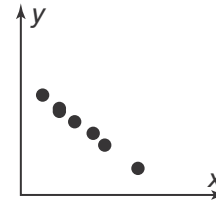
1. Which line is the best model of the data?

2. Does the scatter plot show a positive, a negative, or no association?
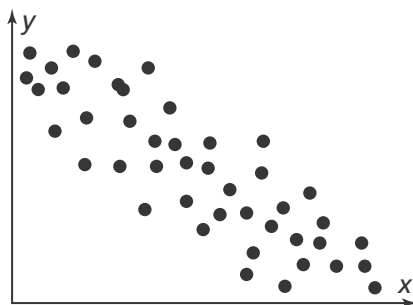

In 3 and 4, determine whether the scatter plot of the data for the situation given would have a positive or negative linear association.
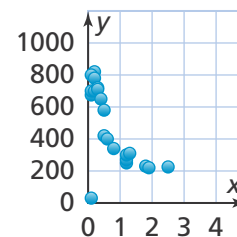
3. Age of a car and reliability of a car

4. Treadmill running time and calories burned

5. Describe the relationship between the data in the scatter plot.
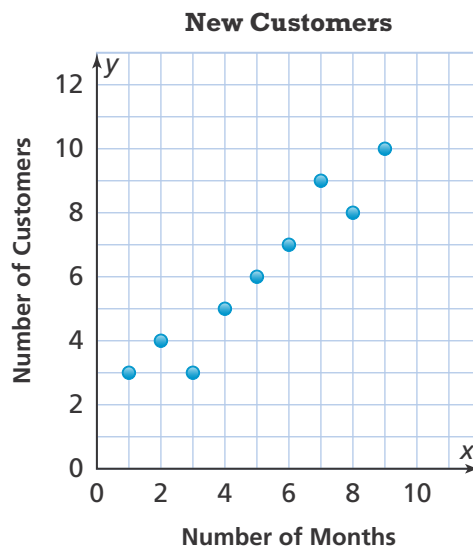

6. Describe the relationship between the data in the scatter plot.

7. Higher Order Thinking A business manager was hired 9 months ago and wants a raise. The scatter plot shows the number of new customers that the manager brought to the company.

a. Draw a trend line for the scatter plot.

b. What type of association does the scatter plot show?

c. Use the information from the scatter plot to explain why the manager should or should not receive a raise.

New Customers

8. Describe a real situation that will show a negative linear association.

Assessment Practice

9. How do you know if a scatter plot shows a nonlinear relationship?

Ⓐ A trend line can be drawn to shown the association.

Ⓑ The points in the scatter plot form a curve or circle.

Ⓒ The points in the scatter plot form a line.

Ⓓ There is no association between the data points.

10. Which paired data will show a nonlinear association? Select all that apply.

☐ Age and number of siblings

☐ Amount of money earned and length of hair

☐ Area and side length of a square

☐ Age and weight of puppies

☐ Height of a bouncing ball and time