# Lesson 1 Reteach

# Scatter Plots

A scatter plot shows the relationship between a data set with two variables graphed as ordered pairs.

- The pattern of the data points determines the association between the two sets of data. • Data points that go generally upward from left to right show a *positive* association.
- Data points that go generally downward from left to right show a *negative* association.
- Data points with no clear pattern show no association between the data sets.

### Examples

#### Explain whether the scatter plot of the data shows a *positive*, *negative*, or *no* association. Interpret the scatter plot.

1. miles driven and gallons of gas used

As the number of miles driven increases, the amount of gas used increases. Therefore, the scatter plot will show a positive association. There appears to be a linear association.

#### 2. number of minutes a candle burns and a candle's height

As the number of minutes increases, the height of the candle will decrease. Therefore, the scatter plot will show a negative association. There appears to be a linear association.



## **Exercises**

Explain whether the scatter plot of the data for each of the following shows a *positive*, *negative*, or *no* association. Interpret the scatter plot.

2.

1.

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20 10

**Minutes Burned** 

0

3.

30

40 50

positive; Sample answer: As the age increases, the height increases. There appears to be a linear association.

negative; Sample answer: no association; As the number of minutes Sample answer: The increases, the amount of hot water decreases. There appears to be a linear association.

day does not affect the number of phone calls.