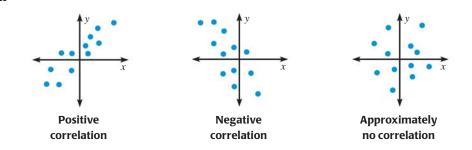
2.6 TEKS a.5, 2A.1.B	Draw Scatter Plots and Best-Fitting Lines
Before	You wrote equations of lines.
Now	You will fit lines to data in scatter plots.
Why?	So you can model sports trends, as in Ex. 27.

Key Vocabulary

- scatter plot
- positive correlation
- negative correlation
- correlation coefficient
- best-fitting line



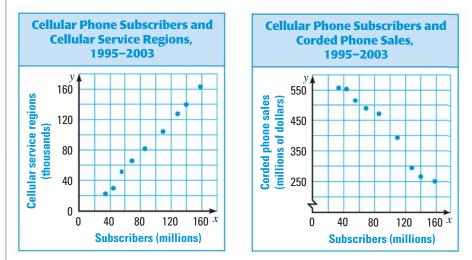
A **scatter plot** is a graph of a set of data pairs (x, y). If y tends to increase as x increases, then the data have a **positive correlation**. If y tends to decrease as

x increases, then the data have a **negative correlation**. If the points show no

obvious pattern, then the data have *approximately no correlation*.

EXAMPLE 1 Describe correlation





Solution

The first scatter plot shows a positive correlation, because as the number of cellular phone subscribers increased, the number of cellular service regions tended to increase.

The second scatter plot shows a negative correlation, because as the number of cellular phone subscribers increased, corded phone sales tended to decrease.