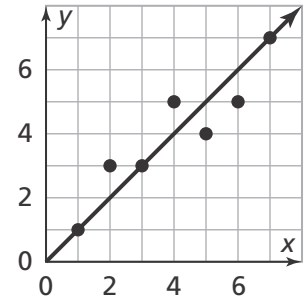


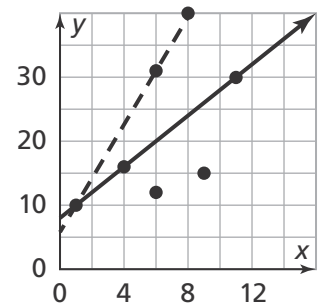
A trend line is a line on a scatter plot, drawn through the middle of the plotted points, that approximates the association between the paired data.

A trend line is a good model of a data set if:

- There is approximately the same number of data points above and below the trend line. Many of the points are about the same distance on either side of the line.
- Most of the data points are close to the trend line (strong association).



Use the scatter plot and the information in the table to determine which trend line is the best model of the data.



Record the answers to Exercises 1–3 in the table.

1. How many data points lie on the line?
2. How many points are above the line?
3. How many points are below the line?

Dashed line	Solid line

4. Compare the trend lines using the information in the table. Which trend line is a better model of the relationship and what is the relationship? Explain.

**On the Back!**

5. Which trend line is a better model of the relationship indicated by the scatter plot? Explain.

