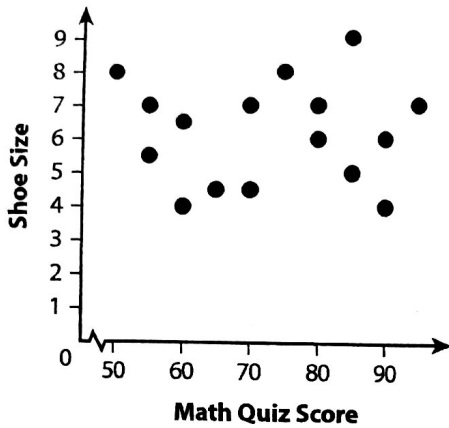


Scatter Plots

1 What type of association does the scatter plot show?



- A positive
- B negative
- C none
- D non-linear

Is there a trend in the shoe size as the math quiz score increases?



2 Use the scatter plot in problem 1 to decide whether each statement is True or False.

- a. There are no outliers. True False
- b. There are 10 data points. True False
- c. The person with the highest score has a size 7 shoe. True False
- d. The scatter plot shows that people with higher test scores have smaller feet. True False

What does each point in the scatter plot represent?



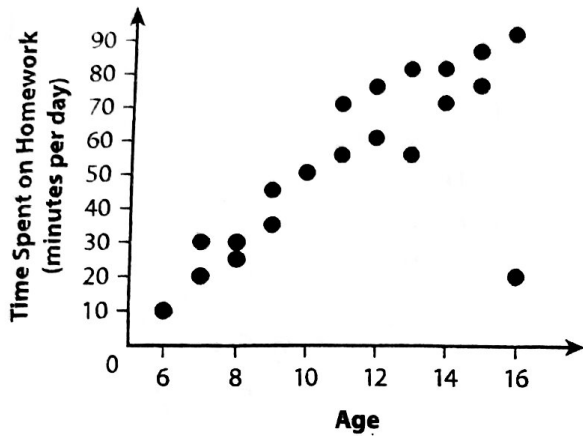
3 Describe a situation in which there would be a positive association between two variables.

What does the graph of a positive association look like?



Solve.

Use the scatter plot for problems 4–5.



4 Which point appears to be an outlier?

- A (6, 10) C (16, 20)
B (13, 55) D (16, 90)

Gary chose **A** as the correct answer. Why is choice **A** incorrect?

Remember that an outlier is a data value that is much greater or much less than most of the other values in the data set.



5 What type of association does there appear to be between the variables? Explain.

Is there a trend in the data?



6 Describe a situation in which there would be a negative association between two variables.

What does the graph of a negative association look like?

