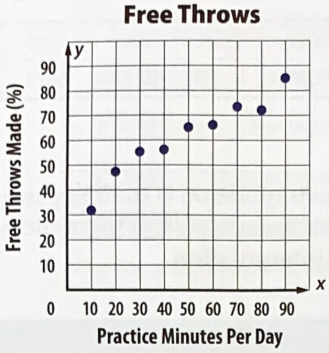
Check Your Understanding

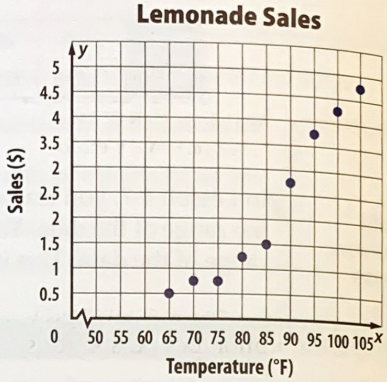
= Step-by-Step Solutions begin on page R13.

Example 1 Determine whether each graph shows a *positive*, *negative*, or *no* correlation. If there is a positive or negative correlation, describe its meaning in the situation.

1.



2.



Example 2

3. CCSS **SENSE-MAKING** The table shows the median age of females when they were first married.

Year	Age
1996	24.8
1997	25.0
1998	25.0
1999	25.1
2000	25.1
2001	25.1
2002	25.3
2003	25.3
2004	25.3
2005	25.5
2006	25.9

Source: U.S. Bureau of Census

a. Make a scatter plot and determine what relationship exists, if any, in the data. Identify the independent and the dependent variables.

b. Draw a line of fit for the scatter plot.

c. Write an equation in slope-intercept form for the line of fit.

Example 3

d. Predict what the median age of females when they are first married will be in 2016.

e. Do you think the equation can give a reasonable estimate for the year 2056? Explain.

Practice and Problem Solving

Extra Practice is on page R4.

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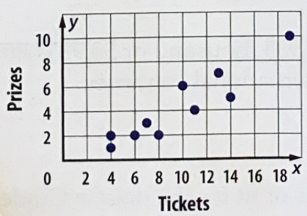
4.



5