

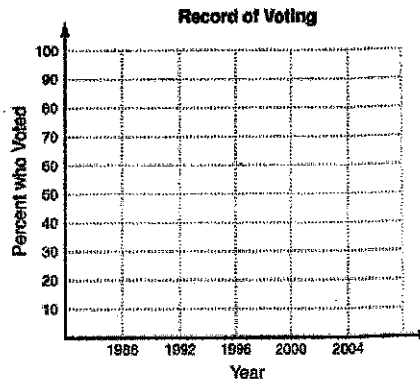
LESSON
4-5

Practice B
Scatter Plots and Trend Lines

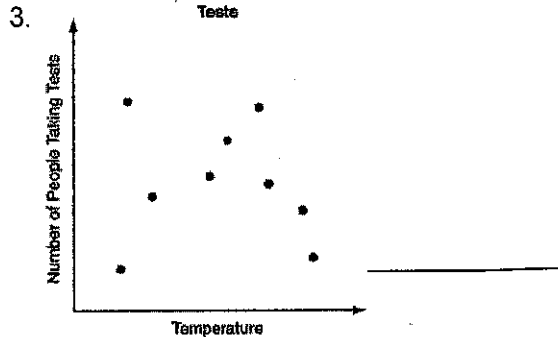
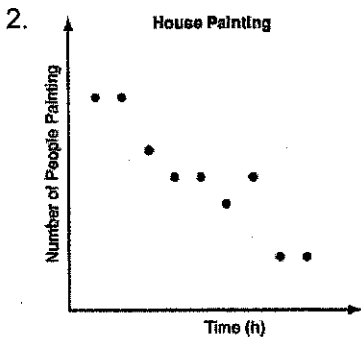
Graph a scatter plot using the given data.

- The table shows the percent of people ages 18–24 who reported they voted in the presidential elections. Graph a scatter plot using the given data.

Year	1988	1992	1996	2000	2004
% of 18-24 year olds	36	43	32	32	42



Write *positive*, *negative*, or *none* to describe the correlation illustrated by each scatter plot.



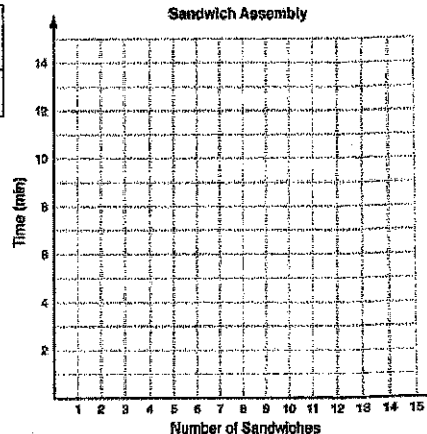
- Identify the correlation you would expect to see between the number of pets a person has and the number of times they go to a pet store. Explain.

Neal kept track of the number of minutes it took him to assemble sandwiches at his restaurant. The information is in the table below.

Number of sandwiches	1	2	4	6	7
Minutes	3	4	5	6	7

- Graph a scatter plot of the data.
- Draw a trend line.
- Describe the correlation.

- Based on the trend line you drew, predict the amount of time it will take Neal to assemble 12 sandwiches.



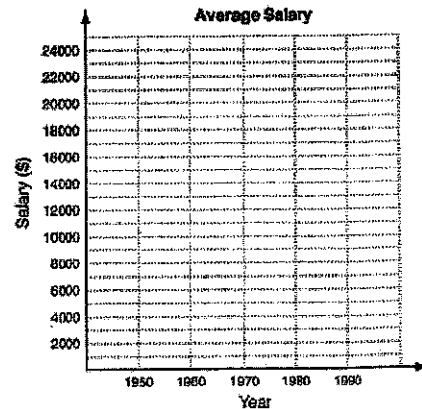
LESSON
4-5

Practice C
Scatter Plots and Trend Lines

Graph a scatter plot using the given data.

- The table shows the average salary (rounded to the nearest hundred) for one type of worker, listed by decade. Graph a scatter plot using the given data.

Decade	1950	1960	1970	1980	1990
Avg. Salary	\$2800	\$4800	\$8300	\$15,400	\$23,700



Identify the correlation you would expect to see between the pair of data sets. Explain.

- The number of chicken pox vaccines given and the number of chicken pox cases reported.

- The number of vacation days given to employees and their level of job satisfaction.

The average number of gallons of coffee per person consumed in the United States is shown in the table below.

Years	1998	1999	2000	2001	2002	2003
Avg. annual per capita consumption	23.9	25.1	26.3	24.2	23.6	24.3

- Graph a scatter plot of the data.
- Draw a trend line.
- Describe the correlation.
- Based on the trend line you drew, predict the average amount of coffee consumed per person in 2007.

- How confident are you in your prediction? Explain.

