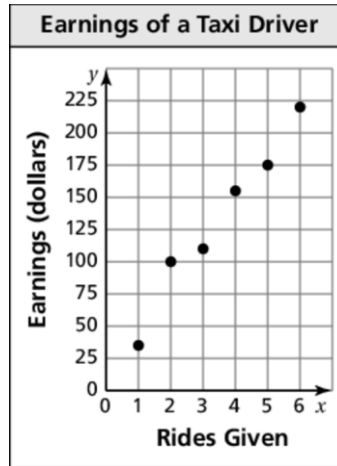


# Chapter 9 Test A

- The scatter plot shows the total earnings (fare and tips) of a taxi driver during one day.
  - How many rides did the taxi driver give to earn \$175?
  - About how much did the taxi driver earn for giving 2 rides?
  - Describe the relationship shown by the data.



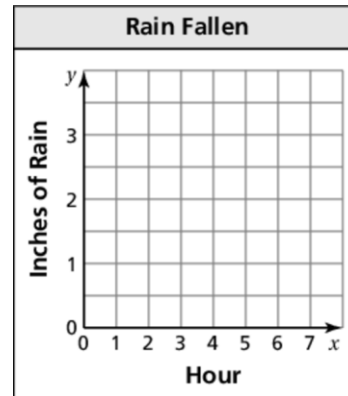
**Answers**

- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

- The table shows the total inches of rain that had fallen after each hour.

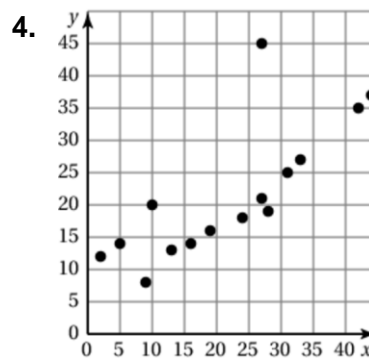
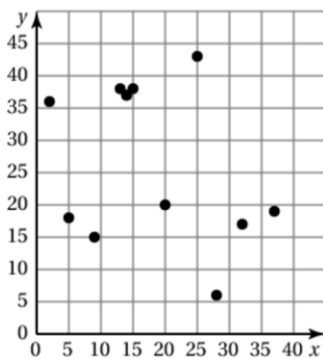
Hour	0	1	2	3	4	5
Inches of Rain	0	0.5	1.1	1.8	2.4	3.0

- Make a scatter plot of the data and draw a line of fit.
- Write an equation of the line of fit.
- Interpret the slope and y-intercept of the line of fit.
- If it continues to rain at a similar rate, predict how much rain will have fallen after 8 hours.



- See left.
  - \_\_\_\_\_
  - \_\_\_\_\_
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

Describe the relationship between the data. Identify any outliers, gaps, or clusters.



**Chapter 9** **Test A** (continued)

Choose an appropriate data display for the situation. Explain your reasoning.

5. the daily high temperature in your town
6. the ages of people at a play
7. the percents of a company's revenue that come from different sources

**Answers**

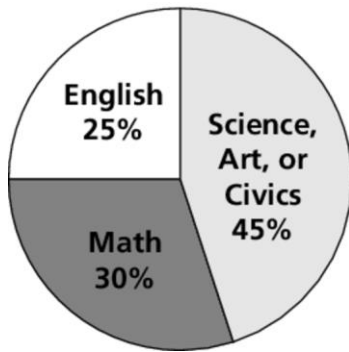
5. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

6. \_\_\_\_\_  
 \_\_\_\_\_

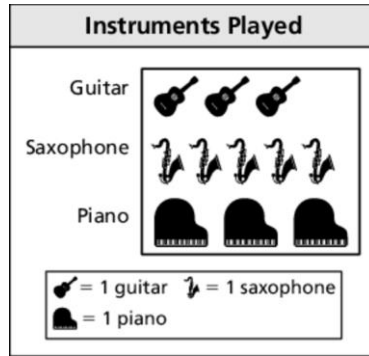
7. \_\_\_\_\_  
 \_\_\_\_\_

Explain why the data display is misleading.

8. **Favorite Class**



9. **Instruments Played**



8. \_\_\_\_\_  
 9. \_\_\_\_\_

10. You randomly survey students about whether they ate or skipped lunch and breakfast. The results of the survey are shown in the two-way table.

- a. How many students in the survey skipped breakfast but ate lunch?
- b. How many of the students in the survey ate lunch?
- c. How many students were surveyed?
- d. Find and interpret the marginal frequencies for the survey.
- e. What percent of students skipped breakfast but ate lunch?

		Breakfast		Total
		Ate	Skipped	
Lunch	Ate	40	12	
	Skipped	8	0	
Total				

10. a. \_\_\_\_\_

b. \_\_\_\_\_

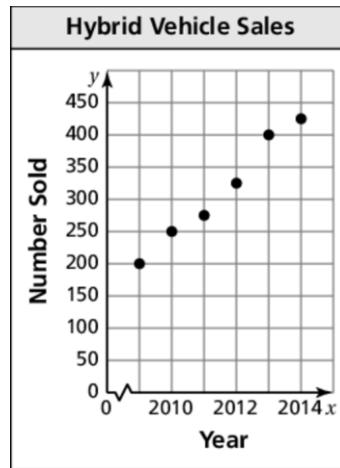
c. \_\_\_\_\_

d. See left.

e. \_\_\_\_\_

# Chapter 9 Test B

- The scatter plot shows the numbers of hybrid vehicles sold in a city from 2009 to 2014.
  - In what year were 400 hybrid vehicles sold?
  - About how many hybrid vehicles were sold in 2012?
  - Describe the relationship shown by the data.



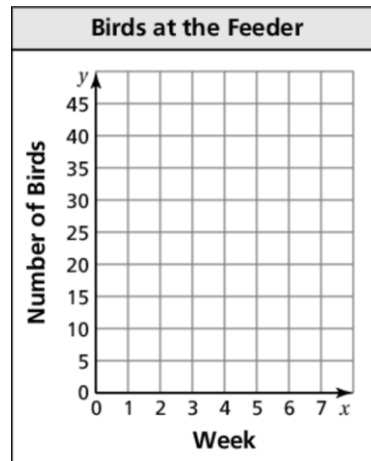
**Answers**

- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- See left.
  - \_\_\_\_\_
  - \_\_\_\_\_

- The table shows the number of birds observed at a feeder each week.

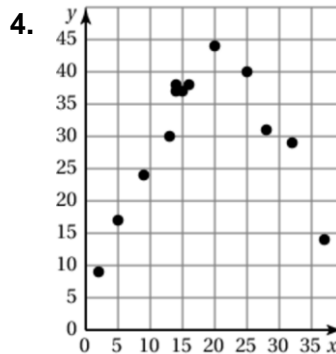
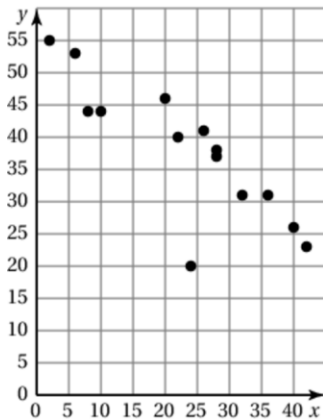
Week	1	2	3	4	5	6
Birds	46	40	39	35	30	27

- Make a scatter plot of the data and draw a line of fit.
- Write an equation of the line of fit.
- Interpret the slope and y-intercept of the line of fit.
- Estimate how many birds were at the feeder 3 weeks before week 1.



- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Describe the relationship between the data. Identify any outliers, gaps, or clusters.

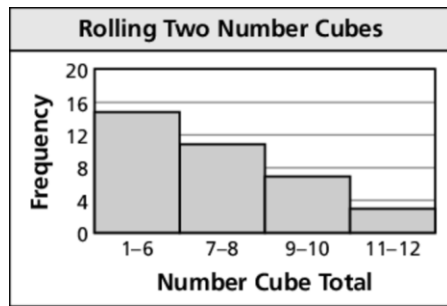


# Chapter 9 Test B (continued)

Choose an appropriate data display for the situation. Explain your reasoning.

- number of wins for each team in a baseball league at the end of the season
- the prices of a flat screen television set at twenty different stores

Explain why the data display is misleading.



- You randomly survey students in your class about whether they visited an amusement park in the summer. The results are shown.

Visited an Amusement Park	
Boys:	38
Girls:	29

Did Not Visit an Amusement Park	
Boys:	17
Girls:	25

- Make a two-way table that includes the marginal frequencies.

		Visited an Amusement Park		
		Yes	No	Total
Student	Boys			
	Girls			
	Total			

- Interpret the marginal frequencies for the survey.
- For each gender, what percent of the students visited an amusement park?

**Answers**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- a. See left.  
b. \_\_\_\_\_  
c. \_\_\_\_\_