Mid-Chapter Check

1. **CCSS** **Be Precise** Define *bivariate data*. Give an example of a data set made up of bivariate data. (Lesson 1)

   Bivariate data are data with two variables. Sample answer: the data set

   of years since 2000 and number of zoo visitors.

2. Fill in the blank with the correct term. (Lesson 3)

   The ___**relative frequency**___ in a two-way table is the ratio of the value of a subtotal to the value of the total.

Skills Check and Problem Solving

The table below shows the average cost to own a certain car over a period of five years. (Lessons 1 and 2)

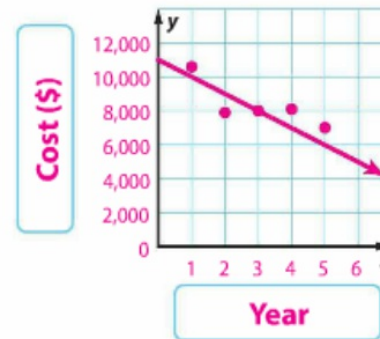| Year	1	2	3	4	5
Cost ($)	10,600	7,900	8,000	8,100	7,000

3. Construct and interpret a scatter plot of the data.

The scatter plot shows a negative linear association.

4. Draw a line of best fit.

5. Write an equation in slope-intercept form for the line of best fit and interpret the slope and y-intercept.

Sample answer: $y = -1,000x + 11,000$; The annual cost for

the car decreases by $1,000 per year; the cost to buy the car.

6. **CCSS** **Persevere with Problems** The two-way table shows the amount of time students studied for a test and the score they received. What is the relative frequency by column of the students that studied more than 30 minutes and received a score of 75% or more? (Lesson 3)

0.63

	Less than 30 minutes	More than 30 minutes
Score of 75% or more	20	45
Score below 75%	33	27