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Test, Form 2A
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NAME

Write the letter for the correct answer in the blank at the right of each question.

For Exercises 1-3, use the data in the table Age of Class that shows the ages of people in a ceramics **Members** class at a community center. 1519 37 10 **1.** What is the mean absolute deviation? 29 8 6 30 25**A.** 23 **C.** 11.33 2062 15С **B.** 15.67 **D.** 9.6 1. **2.** What is the median of the data? G **E**. 15 **G.** 19.5 2. **H.** 22.5 I. no median **3.** What are the first and third quartiles of the data? D **B.** 15, 29 **C.** 10, 30 3. **A.** 6, 62 **D.** 12.5, 29.5 4. The standard deviation of the ages of class members is 14.8. Which of the following best describes the ages that are within one standard deviation of the mean age? **F.** 4.7 – 34.3 years **H.** 8.2 – 37.8 years н **I.** 47.2 – 62 years 4. **G.** 6 – 20.8 years For Exercises 5 and 6, use the scatter plot at the right that shows the number of assisted tackles for various players in one season. **5.** What type of association is shown 3 x in the scatter plot? 10 20 30 40 50 60 0 **A.** positive linear **Number of Minutes Played B.** negative linear C. nonlinear Α **D.** no association 5. **6.** Which of the following is a reasonable estimate for the number of assisted tackles for a player that played for 80 minutes? Н **G.** 18 6. **F.** 9 **H.** 26 **I.** 40 **7.** Which is appropriate to describe the spread of data if the data distribution is symmetric? A. mean **C.** interquartile range D 7. **B.** median **D.** mean absolute deviation

Course 3 • Chapter 9 Scatter Plots and Data Analysis

209

## Test, Form 2A (continued)

SCORE \_\_\_\_\_

- **8.** A teacher surveyed the students in the cafeteria and found that 35 males like fishing while 15 do not like fishing. There were 45 females surveyed and 24 of them dislike fishing.
  - a. Complete the two-way table summarizing the data.

8a, b.	Like Fishing	Dislike Fishing	Total
Male	35; 0.63	15; 0.38	50
Female	21; 0.38	24; 0.62	45
Total	56; 1.00	39; 1.00	95

- **b.** Find the relative frequencies of students by columns. Round to the nearest hundredth if necessary. Write the answer in the table.
- **c.** Interpret the relative frequencies of students by columns.

## For Exercises 9–13, use the data in the table below. The table shows the membership for a fitness center in the years 2003–2010.

Most people that like 8c. <u>fishing are</u> males. Most that dislike fishing are females.

