

**I.** 47.2 - 62 years

**G.** 6 - 20.8 years

**H.** 8.2 - 37.8 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.**

**7.** Which is appropriate to describe the spread of data if the data distribution is symmetric?

**7.**

**C.** interquartile range

**D.** mean absolute deviation

**A.** mean

**B.** median

**F.** 9

**6.**

**I.** 40

**H.** 26

**G.** 18

**6.** Which of the following is a reasonable estimate for the number of assisted tackles for a player that played for 80 minutes?

**5.**

**5.** What type of association is shown in the scatter plot?

**A.** positive linear

**B.** negative linear

**C.** nonlinear

**D.** no association

**F.** 4.7 - 34.3 years

|  |
| --- |
| **Age of Class Members** |
| 10 | 15 | 19 | 37 |
| 29 | 8 | 6 | 30 |
| 20 | 25 | 62 | 15 |

**F.** 6

**2.** Which is an outlier of the data?

**1.**

**A.** 23

**B.** 15.67

**C.** 11.33

**D.** 9.5

**3.**

**4.**

**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?

**D.** 12.5, 29.5

**C.** 10, 30

**B.** 15, 29

**A.** 6, 62

**3.** What are the first and third quartiles of the data?

**2.**

**I.** no outliers

**H.** 62

**G.** 25.5

**Chapter 9 Practice Test**

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

**For Exercises 1-4, use the data in the table
that shows the ages of people in a ceramics
class at a community center.**

1. What is the mean absolute deviation?

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*(continued)*

**Chapter 9 Review**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Years Since 2002** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Membership** | 75 | 150 | 125 | 200 | 175 | 300 | 250 | 350 |

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

**9c.**

**9b.**

**9b.** Draw and assess a line that seems to best represent the data on the scatter plot.

**9c.** Write an equation in slope-intercept form for the line of best fit that is drawn.

**9d.** Interpret the slope and *y*-intercept of the line of best fit.

**10.** Use your equation from Exercise **11** to make a conjecture about the number of fitness center members in the year 2011.

**9d.**

**8c.**

**9a.**

**11.**

**11.** Explain in your own words what *mean absolute deviation* means.

**10.**

**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.

**9a.** Construct a scatter plot for the data.

**For Exercises 9-11, use the data in the table below. The table shows the membership for a fitness center in the years 2003-2010.**

**c.** Interpret the relative frequencies of students by columns.

|  |  |  |  |
| --- | --- | --- | --- |
| **8a, b.**  | **Likes Fishing** | **Dislikes Fishing** | **Total** |
| **Male** |  |  |  |
| **Female** |  |  |  |
| **Total** |  |  |  |

**a.** Complete the two-way table summarizing the data.

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