

**For Exercises 1-3, use the scatter plot shown   
at the right.**

**4.**

**4.** Which of the following is the most reasonable equation for the line of   
best fit?

**H.** *y* = −3*x* + 15

**I.** *y* = 3*x* + 15

**F.** *y* = 1.5*x* + 15

**G.** *y* = −1.5*x* + 15

**For Exercises 4 and 5, use the scatter plot shown at the right. The scatter plot shows Bryan’s keyboarding speed after a number of weeks of keyboarding class.**

6

4

2

5

15

25

35

45

**Age (years)**

**Watching TV (hours per day)**

***y***

***x***

**5.**

**5.** Which of the following is the most reasonable estimate for Bryan’s keyboarding speed after 15 weeks?

**C.** 60 wpm

**D.** 65 wpm

**A.** 50 wpm

**B.** 55 wpm

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

**1.**

**A.** a negative linear association

**B.** a positive linear association

**C.** 4 h

**D.** 2 h

**F.** As the age of a person increases, the time spent watching TV increases.

**G.** As the time spent watching TV increases, a person’s age decreases.

**C.** a negative nonlinear association

**D.** no association

**3.**

**3.** Which of the following is a reasonable estimate for the amount of TV watched per day for a person who is 50 years old?

**A.** 6 h

**B.** 5 h

**H.** As the age of a person increases, the time spent watching TV decreases.

**I.** There is no relationship between the age of a person and the amount of time spent watching TV.

**2.** Which of the following statements is best supported by the scatter plot?

**2.**

**Chapter 9 Review B**

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

**Course 3 •** Chapter 9 Scatter Plots and Data Analysis

**207**

SCORE

PERIOD

NAME DATE

|  |  |  |
| --- | --- | --- |
| **Goals Scored** | | |
| 8 | 14 | 11 |
| 17 | 16 | 24 |

**Chapter 9 Review B**

*(continued)*

**A.** mean

**B.** mode

**C.** median

**D.** range

**11.** If a data distribution is symmetric, which should you use to describe the center?

**10.**

**H.** 4

**I.** 1

**11.**

**F.** 6

**G.** 5

**10.** The table below shows the number of goals scored by Elain’s field hockey team. What is the mean absolute deviation of the data?

**H.** 12, 11.5

**I.** 12, 14

**F.** 0.12 **G.** 0.83

**A.** Of the students that like classical music, most do not play a instrument.

**B.**Of the students that play an instrument, most do not like classical music.

**C.** There were a total of 45 students surveyed.

**D.** Most of the students surveyed play an instrument.

**A.** 8 **B.** 9 **C.** 11 **D.** 16

**F.** 6, 16

**G.** 7.5, 13

**For Exercises 8 and 9, use the following data set.**

**6, 7, 7, 8, 9, 11, 12, 12, 12, 14, 14, 16**

**9.** The standard deviation for the data is 3.09. Which of the following is *not* within one standard deviation of the mean?

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

**9.**

**8.**

**7.**

**6.**

**7.** Which of the following is a valid conclusion about the data?

**H.** 0.88 **I.** 0.89

**6.** What is the relative frequency of the students who like classical music and play an instrument to the total number of students who play an instrument? Round to the nearest hundredth.

|  |  |  |
| --- | --- | --- |
|  | **Likes classical music** | **Dislikes classical music** |
| **Plays an instrument** | 15 | 2 |
| **Does not play an instrument** | 3 | 25 |

**For Exercises 6 and 7, use the two-way table shown below.**

**Course 3 •** Chapter 9 Scatter Plots and Data Analysis

**208**

SCORE

PERIOD

NAME DATE