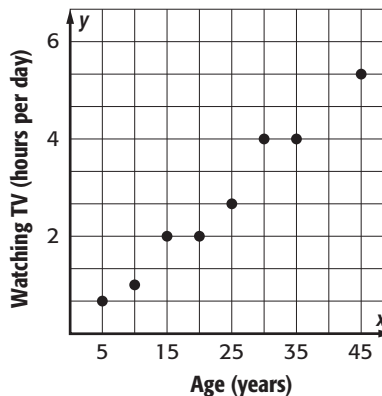


# Test, Form 1B

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

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



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

- A. a negative linear association
- B. a positive linear association
- C. a negative nonlinear association
- D. no association

1.     B    

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

- 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.
- 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.

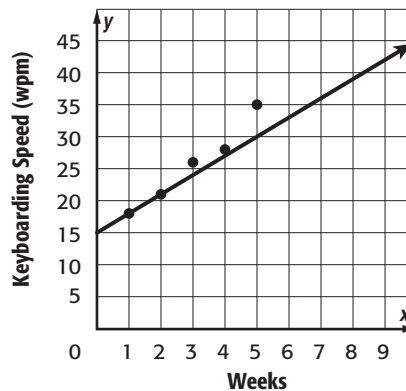
2.     F    

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
- C. 4 h
- D. 2 h

3.     A    

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.



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

- F.  $y = 1.5x + 15$
- G.  $y = -1.5x + 15$
- H.  $y = -3x + 15$
- I.  $y = 3x + 15$

4.     I    

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

- A. 50 wpm
- B. 55 wpm
- C. 60 wpm
- D. 65 wpm

5.     C

# Test, Form 1B *(continued)*

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

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

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.

- F. 0.12      G. 0.83      H. 0.88      I. 0.89

6.     H    

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

- 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.

7.     C    

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

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

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

- F. 6, 16                                      H. 12, 11.5  
 G. 7.5, 13                                    I. 12, 14

8.     G    

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

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

9.     D    

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?

Goals Scored		
8	14	11
17	16	24

- F. 6              G. 5              H. 4              I. 1

10.     H    

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

- A. mean              B. mode              C. median              D. range

11.     A