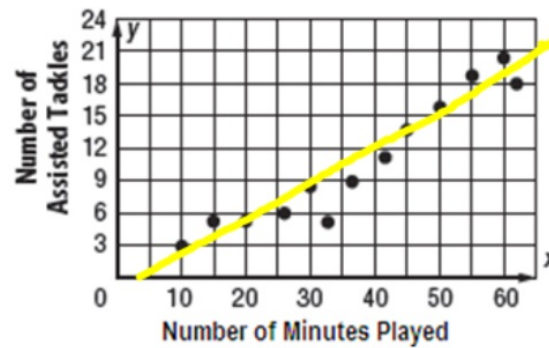


For Exercises 5 and 6, use the scatter plot at the right that shows the number of assisted tackles for various players in one season.



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

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

80  
A  
5. \_\_\_\_\_

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

- F. 9
- G. 18
- H. 26
- I. 40

H  
6. \_\_\_\_\_

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

- A. mean
- B. median
- C. interquartile range
- D. mean absolute deviation

D  
7. \_\_\_\_\_

# Chapter 9 Review *(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.

*c. part  
whole*

*35  
56 →  
24  
56 →*

8a, b.	Likes Fishing	Dislikes Fishing	Total
Male	35	15	50
Female	21	24	45
Total	56	39	95

$$\frac{15}{39}$$

$$\frac{24}{39}$$

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.

8c. \_\_\_\_\_

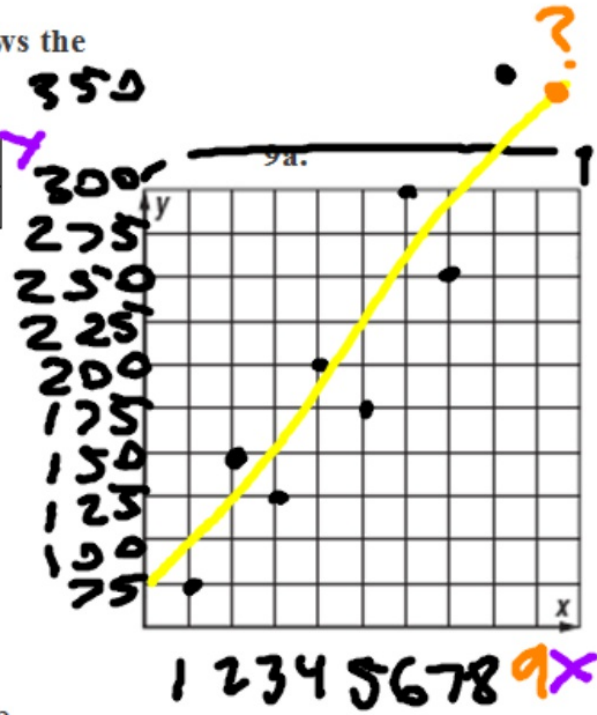
~~\_\_\_\_\_~~

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.

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

9a. Construct a scatter plot for the data.

Mem.



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 9c to make a conjecture about the number of fitness center members in the year 2011.

9b. \_\_\_\_\_

9c. \_\_\_\_\_

9d. \_\_\_\_\_

10. 390

$y = 25x + 75$   
 25 mem/yr. 75 mem. 2002  
 $y = 25(9) + 75$