

Chapter 14 Practice Quiz

1. The most common way to display the relationship between two quantitative variables is:

- a. Stem and leaf
- b. Histogram
- c. Scatterplot
- d. Box plot

2. What are the possible values for  $r$ ?

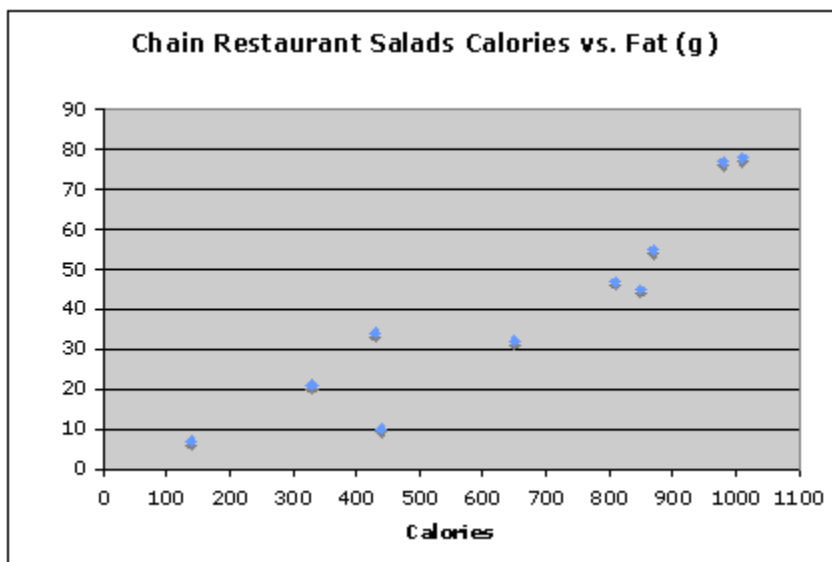
- a.  $r > 0$
- b.  $r < 0$
- c.  $-1 \leq r \leq 1$
- d.  $r$  is between 0 and 100

3. When calculating  $r$ , what values do you use?

- a. Median
- b. Percentile
- c. Normal distribution
- d. Standard score

4. The correlation  $r$  measures:
- a. The strength of straight-line association between two variables
  - b. The strength of curved relationships between variables
  - c. The distinction between explanatory and response variables
  - d. The change in units of measurement

5. Use the graph below to answer the following question.

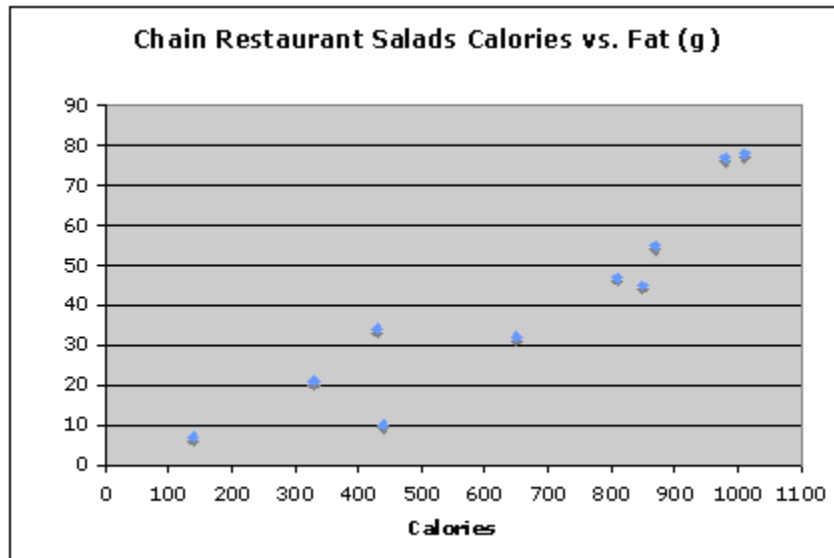


(ch14q05-07.jpg)

Does the graph show a positive or negative association?

- a. Positive association
- b. Negative association
- c. Cannot determine from the information given

6. Use the graph below to answer the following question.

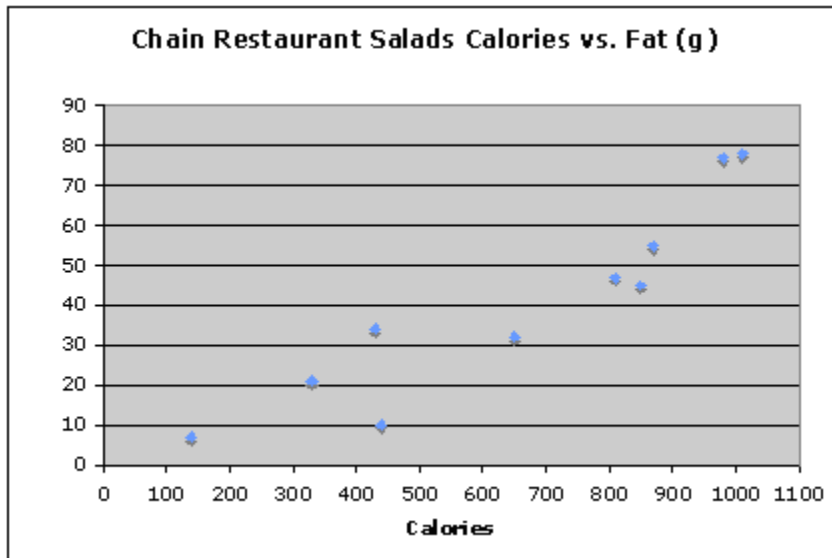


(ch14q05-07.jpg)

Does the graph show a strong or weak correlation?

- a. Strong correlation
- b. Weak correlation
- c. Cannot determine from the information given

7. Use the graph below to answer the following question.

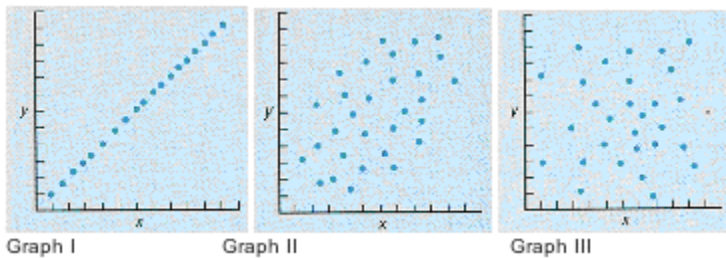


(ch14q05-07.jpg)

Which number would most likely be assigned to the correlation of this data set?

- a. -0.25
- b. +0.25
- c. -0.80
- d. +0.80

8. Use the graphs below to answer the following question.

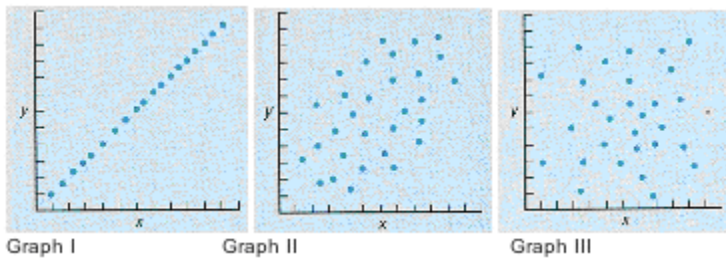


(ch14q08-10.jpg)

Which graph has a negative association?

- a. Graph I
- b. Graph II
- c. Graph III
- d. None of the choices are correct.

9. Use the graphs below to answer the following question.

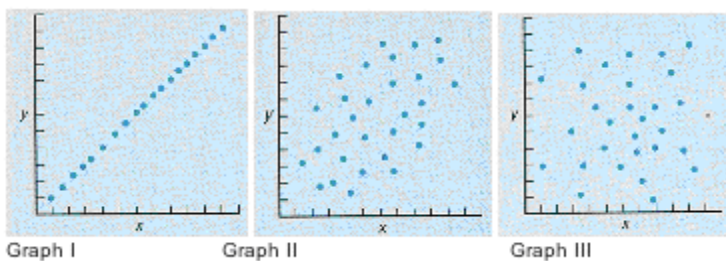


(ch14q08-10.jpg)

Which of these graphs has the strongest positive correlation?

- a. Graph I
- b. Graph II
- c. Graph III
- d. None of the choices are correct.

10. Use the graphs below to answer the following question.



(ch14q08-10.jpg)

Which of these graphs would have close to a 0 correlation?

- a. Graph I
- b. Graph II
- c. Graph III
- d. None of the choices are correct.