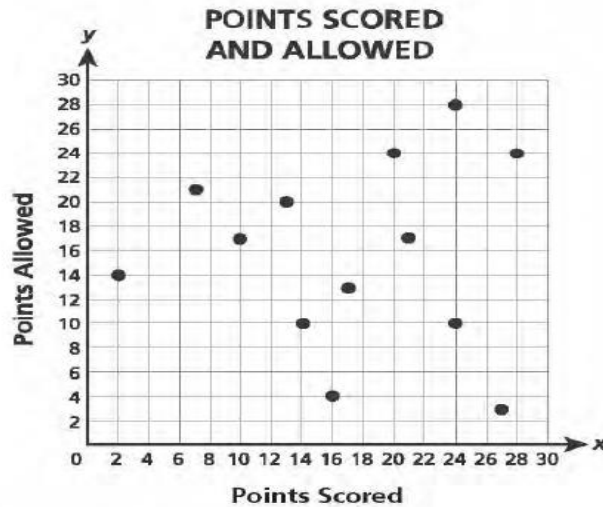


Name: \_\_\_\_\_  
8.SP.1

Date: \_\_\_\_\_

- \_\_\_\_\_ 1. The scatter plot below shows the points scored and the points allowed by the Bulldogs football team for several games. (2016) (no calculator)



Which association (correlation) best describes the data?

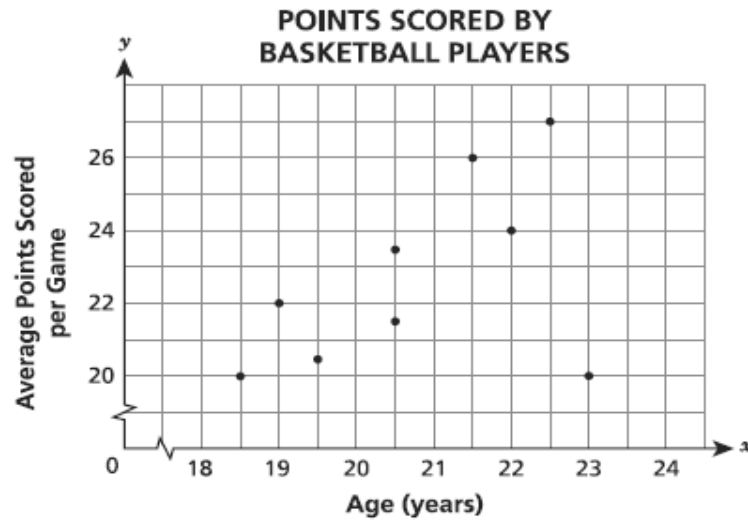
- A. no association (correlation)                      C. negative association (correlation)  
B. positive association (correlation)              D. nonlinear association (correlation)
- \_\_\_\_\_ 2. As part of a training program for a triathlon, Marcie completes a three-mile run a few times each week. The scatter plot below shows the times in which Marcie completes this run for each week that she has been in the training program.



Based on these data, which statement **best** describes the relationship between the number of weeks Marcie has been in the training program and her running times? (2017)

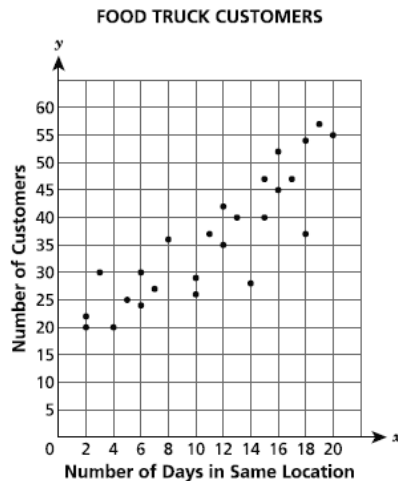
- A. There is a negative linear association with no outliers.  
B. There is a negative linear association with one outlier.  
C. There is a positive linear association with no outliers.  
D. There is a positive linear association with one outlier.

- \_\_\_\_\_ 3. The scatter plot shows the average points scored per game by players of different ages in an adult basketball league. (2018)



Which statement **best** describes the association between a player's age, in years, and the average points scored per game?

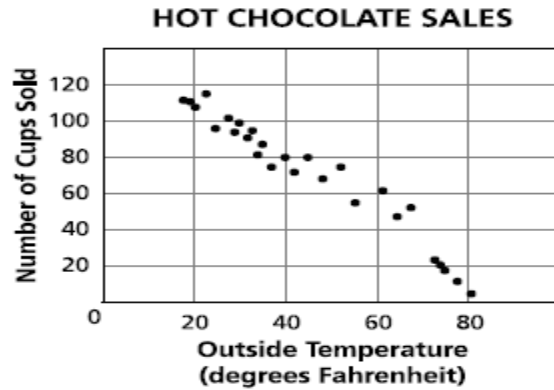
- A. There is no association
  - B. There is a nonlinear association
  - C. There is positive linear association and one outlier
  - D. There is a negative linear association and one outlier
- \_\_\_\_\_ 4. The scatter plot below shows the average number of customers who visit a food truck per day, depending on the number of days the food truck stays in the same location. (2019 and 2021)



Which statement **best** describes the association between the number of days the food truck is in the same location and the number of customers who visit the food truck per day?

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

- \_\_\_\_\_5. The scatter plot below shows the relationship between the outside temperature and the number of cups of hot chocolate sold at an event. (2019)



Which statement describes the data?

- A. There is no association between the outside temperature, in degrees Fahrenheit, and the number of cups of hot chocolate sold.
- B. There is a nonlinear association between the outside temperature, in degrees Fahrenheit, and the number of cups of hot chocolate sold.
- C. There is a positive linear association between the outside temperature, in degrees Fahrenheit, and the number of cups of hot chocolate sold.
- D. There is a negative linear association between the outside temperature, in degrees Fahrenheit, and the number of cups of hot chocolate sold.