1. What does the correlation coefficient tell us?

    (A) Measure of the exponential association between two variables
    (B) Measure of the causation of one variable on the other
    (C) Measure of the linear association between two variables
    (D) Measure of the distance between a datum and the value predicted by a model

2. The correlation coefficient between two variables is 0.9. How would you describe this value?

    (A) Strong and positive
    (B) Strong and negative
   (C) Weak and positive
    (D) Weak and negative

3. The correlation coefficient between two variables is -0.4. How would you describe this value?

    (A) Strong and positive
    (B) Strong and negative
    (C) Weak and positive
    (D) Weak and negative

4. We assume that SAT score is linearly associated with GPA and determine the correlation coefficient to be 0.8. What does this value suggest?

    (A) SAT score decreases as GPA increases
    (B) There is no relation between SAT score and GPA
    (C) GPA increases as SAT decreases
    (D) SAT score increases as GPA increases

5. Which of the following values for r suggests a strong negative correlation?

    (A) -0.2
    (B) 0.95
    (C) -0.85
    (D) 0

6. Which of the following is true about the data represented on the graph?

    (A) The correlation coefficient is greater than zero.
    (B) The data depicts a negative weak correlation.
    (C) The data depicts a negative strong correlation.
   (D) There is no substantial correlation between the data.

$r = -0.3$
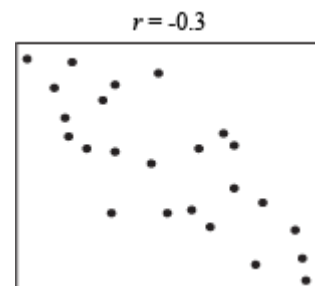
7. The following data presents the SAT score and GPA for 8 students. If we assume that SAT score is dependent on GPA, which variable is x and which is y?

SAT Score	GPA
1240	2
1650	2.5
1600	2.8
1800	3
1750	3.3
2100	3.5
2300	3.8
1980	4

(A) GPA is both x and y
(B) GPA is x, SAT score is y
(C) SAT score is x, GPA is y
(D) SAT score is both x and y

8. The following figure displays a graph showing GPA and SAT score. Based on the scatter plot, which of the following is the best assumption about the correlation between the variables?
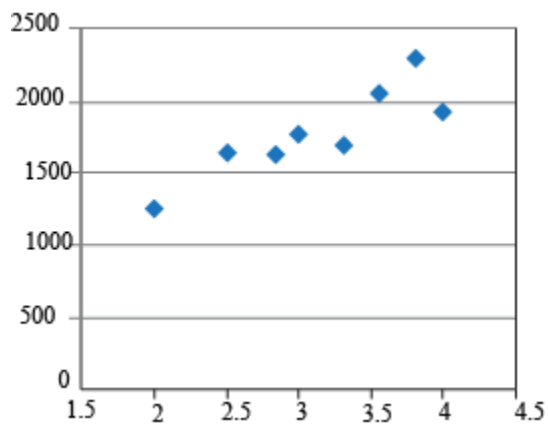
(A) Positive linear correlation
(B) No correlation
(C) Negative linear correlation
(D) Exponential correlation

9. What is the correlation coefficient for the assumption that SAT score is dependent on GPA?

(A) 0
(B) -0.90
(C) 0.20
(D) 0.90