

Quiz

- 1- Which of the following is not a part of the five number summary?
- A. Q_1
 - B. The median
 - C. The smallest and the largest data values
 - D. The mean
- 2- If a score on test(A) is 4.5 with $\bar{X} = 5.2$ and $s=1.5$ and a score on test (B) is 13.6 with $\bar{X} = 16.1$ and $s=3.7$, which score indicates the higher relative position?
- A. The score on test B is the higher relative position
 - B. The score on test A is the higher relative position
 - C. Cannot be determined
 - D. Both scores have the same relative position
- 3- Calculate IQR for the following data:
- 14, 18, 27, 26, 19, 13, 5, 25
- (Where, $Q_1=13.5$ and $Q_2=18.5$)*
- A. 6
 - B. 19.5
 - C. 12
 - D. 5
- 4- A relationship exists if both variables increase or decrease at the same time.
- A. negative
 - B. positive
 - C. perfect
 - D. curvilinear

- 5- A correlation coefficient of 0.185 means that the relationship is
- A. weak positive
 - B. weak negative
 - C. strong positive
 - D. strong negative

- 6- Calculate Pearson correlation coefficient for the following data:

x	y
-2	4
5	2
1	-3

Given that: $\sum x^2 = 30$, $\sum y^2 = 29$.

- A. -0.003
 - B. 0.671
 - C. -0.197
 - D. -0.254
- 7- The regression line is called the
- A. Scatter plot
 - B. slope line
 - C. intercept line
 - D. line of best fit
- 8- A researcher wished to compare the automobile color preference of men and women. An experiment was performed recording the preferences of 9 men and 9 women. If the sum of squares of the ranking differences is equal to 11, compute the Spearman Rank correlation coefficient.
- A. 0.953
 - B. 0.908
 - C. 0.454
 - D. 0.825

9- To see if the English level and the Statistics score are related, you can use:

- A. Spearman Correlation Coefficient.
- B. Regression Line.
- C. Pearson Correlation Coefficient.
- D. Sign Test

10- If a die is rolled one time, what is the probability of getting a number greater than 3 and an odd number?

- A. 1
- B. 0.833
- C. 0.167
- D. 0.25

11- By how many ways can we select 4 students and 3 teachers from 6 students and 7 teachers?

- A. 525
- B. 0.306
- C. 75600
- D. 50

12- In a hospital the staffs are classified as follows:

	Male	Female
Doctor	10	15
Nurse	12	13

If a person is selected at random, what is the probability that the person is a male given that the person is a doctor?

- A. 0.22
- B. 0.74
- C. 0.2
- D. 0.4

13- An insurance company classifies drivers as low-risk, medium-risk, and high-risk. Of those insured, 70% are low-risk, 20% are medium-risk, and 10% are high-risk. After a study, the company finds that during one year period, 2% of the low-risk drivers had an accident, 6% of the medium-risk drivers had an accident, and 9% of the high-risk drivers had an accident. If a driver is selected at random, find the probability that the driver will have had an accident during the year.

- A. 0.035
- B. 0.17
- C. 0.0001
- D. 0.014

14- If a die is rolled 4 times, find the probability of getting at least one even number?

- A. 0.938
- B. 0.063
- C. 0.5
- D. 0.996

15- How many different ID cards can be made if there are 4 digits followed by 3 letters and no digit or letter can be used more than once?

- A. 109
- B. 175760000
- C. 78624000
- D. 118

Answer key

1- D

2- B

3- C

4- B

5- A

6- C

7- D

8- B

9- A

10- C

11- A

12- D

13- A

14- A

15- C