

*** SOLUTIONS ***
King Fahd University of Petroleum & Minerals
Department of Mathematical Science
STAT-211-Term043-I -Quiz #3

Name: _____

ID: _____

Serial: _____

Question One (5-Points)

Write **True** if the statement is true or **False** if not:

1. The median can be used for categorical data:---~~False~~
2. The third quartile is not affected by extreme values:---~~True~~
3. For symmetric data distribution the population mean equals the sample mean:---~~False~~
4. The population variance always less than the sample variance:---~~False~~
5. The variance consider the way in which dada are distributed:---~~False~~

Question Two (5-Points)

The following observations are the daily sales in thousands of super market in S.R

4.6	4.7	4.8	4.9	5	5.3	5.5	5.7	5.9	6
6.1	6.1	6.3	6.4	6.5	6.9	7	7.3	7.4	7.8

Use the above data **sample** to answer the following questions

1. The sample median is equal to:
 - a. 6.01
 - b. 6.05
 - c. 6.1
 - d. 5.9
2. The sample standard deviation is equal to:
 - a. 0.93161
 - b. 0.8679
 - c. 0.95581
 - d. 0.91358
3. The coefficient of variation is:
 - a. 15.90%
 - b. 9.56%
 - c. 15.50%
 - d. 6.45%
4. The inter quartile range is equal to:
 - a. 0.975
 - b. 3.2
 - c. 0.75
 - d. 1.725
5. Based on the sample, the distribution of the data is:
 - a. Symmetric
 - b. Left-skewed
 - c. Right-skewed
 - d. Can't be determined