

SOLUTIONS

King Fahd University of Petroleum & Minerals
Department of Mathematical Science
STAT-211-Term042-I

Quiz #3
ID:

Section:
Serial:

Name: _____

Question One (5-Points)

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

1. The mode can be used for categorical data: **-TRUE**
2. The third quartile is affected by extreme values: **-FALSE**
3. For right skewed data distribution the mean is greater than the mode: **TRUE**
4. The population variance is always less than the sample variance: **FALSE**
5. The range ignores the way in which data are distributed: **TRUE**

Question Two (5-Points)

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

46	57	69	49	78	65	55	47	61	60
59	53	63	74	61	48	70	73	64	50

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

1. The sample median is equal to:
 - a. 60.1
 - b. 60.5**
 - c. 61
 - d. 59
2. The sample standard deviation is equal to:
 - a. 9.3161
 - b. 86.79
 - c. 9.5581**
 - d. 91.3579
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. 9.75
 - b. 32
 - c. 7.5
 - d. 17.25**
5. Based on the sample, the distribution of the data is:
 - a. Symmetric
 - b. Left-skewed**
 - c. Right-skewed
 - d. Can't be determined