

01AB785 Agricultural Research Methodology
Spring AB 2018
Feedback Quiz 4 (Primary Data Analysis)
Total Points 10

Name:

ID:

1. Define median. How the position of the median can be determined?

2. Differentiate the mean, median and mode?

3. The less similar the scores are to each other, the lesser the measure of dispersion will be. (Ture/False)
4. Define semi-interquartile range.

5. Variance is defined as the average of the square deviations. (Ture/False)
6. How to determine skew?

7. Statistical inference is the process of reaching conclusions about characteristics of an entire population using data from a subset, or sample of that population. (True/False)
8. Sampling distribution is the distribution of a sample statistic (e.g., a mean) when sampled under known sampling conditions from an unknown population. (True/False)
9. A random sample of 10 American college students reported sleeping 7, 6, 8, 4, 2, 7, 6, 7, 6, 5 hours, respectively. (Hints: Population mean 6.0)
 - a) What is the sample mean?
 - b) Calculate variance of the samples?
 - c) What is the sample standard deviation?
 - d) Calculate variance of the population?
 - e) Justify your hypothesis-using test of significance?

10. The following frequency distribution indicates the test scores of 40 students in Educational Measurement and Evaluation. Calculate the coefficient of kurtosis.

<i>C.I.</i>	<i>f_i</i>
65-69	2
60-64	2
55-59	3
50-54	1
45-49	6
40-44	11
35-39	8
30-34	3
25-29	2
20-24	2