

DATA ANALYTICS ASSIGNMENT QUESTIONS

DAY - 4:

1.Explain the fundamental principle of counting and provide an example. How does the multiplication rule extend the principle of counting, and when is it applicable?

2.Define probability and probability distribution. Provide an example of a probability distribution and explain how it meets the properties of a valid probability distribution.

3. Define sampling distribution and explain its role in inferential statistics. Provide an example scenario where understanding the sampling distribution is crucial for making statistical inferences.

4.What is the role of a sampling distribution in inferential statistics?

- a) To describe the distribution of a population
- b) To analyze the variability within a single sample
- c) To make predictions about a population based on a sample
- d) To determine the probability of a specific outcome in a single trial