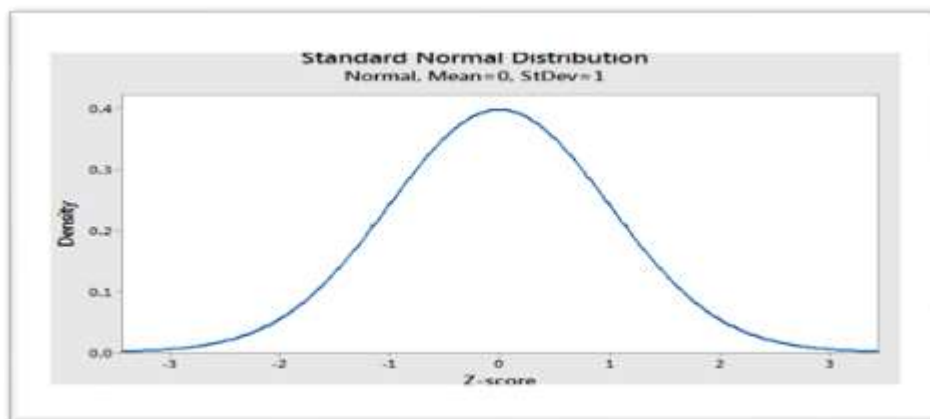


Answers

STATISTICS WORKSHEET-1

1. A
2. A
3. B
4. D
5. C
6. B
7. B
8. A
9. C
10. The Normal Distribution is often called the bell curve because the data near the mean are more frequent in occurrence than data far from the mean. For example, IQ scores, heights and weights.



11. There are multiple ways in handling missing data like mean median imputation, deleting rows with missing values, imputing missing values for continuous variable, imputing missing values for categorical variable, using algorithms that support missing values, prediction of missing values but I recommend to use algorithms that support missing values for example the k-NN algorithm.
12. A/B testing is also called as split testing creating 2 versions of a digital asset to see which one user respond to better. Examples of assets include a landing

Answers

page, display ad, marketing email , and social post A/B testing demonstrates the efficacy of potential changes, enabling data-driven decisions and ensuring positive impacts.

13. Mean imputation (MI) is one such method in which the mean of the observed values for each variable is computed and the missing values for that variable are imputed by this mean. This method can lead into severely biased estimates even if data are MCAR.
14. Linear regression is probably one of the most important and widely used regression techniques. Linear-regression models are relatively simple and provide an easy-to-interpret mathematical formula that can generate predictions. Linear regression can be applied to various areas in business and academic study.
15. Statistics have majorly categorized into two types:
 - Descriptive statistics
 - Inferential statistics

Descriptive statistics describes data (for example, a chart or graph) and inferential statistics allows you to make predictions (“inferences”) from that data. With inferential statistics, you take data from samples and make generalizations about a population.