

Statistics Worksheet-1 Answers

Ans 1. - Option A : True

Ans 2. - Option A : Central Limit Theorem

Ans 3. - Option B : Modeling bounded count data

Ans 4. - Option D : All of the mentioned

Ans 5. - Option C : Poisson

Ans 6. - Option B : False

Ans 7. - Option B : Hypothesis

Ans 8. - Option A : 0

Ans 9. - Option C : Outliers cannot conform to the regression relationship.

Ans 10. - Normal Distribution is a probability distribution that is symmetric about the mean

Showing that data near the mean are more frequent in occurrence than data far

From the mean.

Ans 11. - I handle the missing data by filling it with some value with the help of these ways :

A) 1. If the data is continuous then I use median or mean of that column to fill missing values.

2. If the data is categorical then I use mode of that column to fill missing values.

B) Other than the above technique I can also use the forward fill or back fill

technique to fill the missing values of that column with random values

with the help of using their adjacent row values.

Ans 12. - A/B testing is a user experience research methodology. It includes application of

two sample hypothesis testing. It is a way to compare two versions of single variable

by testing a subject's response to variant A against variant B and determining which

of the two variants is more effective.

Ans 13. - I don't think that mean imputation of missing data is an acceptable practice because :

1. Mean imputation does not preserve the relationships among variables.
2. Mean imputation leads to an underestimate of standard errors.

Ans 14. - In statistics linear regression is a linear approach for modeling the relationship between a scalar response and one or more explanatory variables.

Ans 15. - There are two main branches of statistics :

1. Descriptive statistics.
2. Inferential statistics.