

Statistics Worksheet 8

Q.1) B

Q.2) B

Q.3) D

Q.4) B

Q.5) A

Q.6) D

Q.7) B

Q.8) A

Q. 9) C

Q.10) C

Q.11) A

Q.12) D

Q. 13) What is Anova in SPSS?

Answer : Analysis of Variance, i.e. ANOVA in SPSS, is used for examining the differences in the mean values of the dependent variable associated with the effect of the controlled independent variables, after taking into account the influence of the uncontrolled independent variables.

Q. 14) What are the assumptions of Anova?

Answer : There are Three basic assumptions used in ANOVA:

1. The experimental errors of your data are normally distributed .
2. Equal variances between treatments
 - Homogeneity of variances

- Homoscedasticity

3. Independence of samples

- Each sample is randomly selected and independent

Q. 15) What is the difference between one way Anova and two way Anova?

Answer : In a one-way ANOVA, it focuses on simply one independent variable and one dependent variable. However, variables rarely exist in isolation in the real world. The two way ANOVA focuses on two independent variables to examine these more complex, real-life situations, thus increasing the external validity of the study.