

# Course: Business Statistics

## Chapter: Analysis of Variance

Formula: 1) Mean:  $\bar{X} = \frac{\sum X}{N}$

2) Grand Mean=  $\bar{X} = \frac{\sum X}{N}$

3) Total Observations: Total (T)=  $\sum X_1 + \sum X_2 + \sum X_3$

4) Correction Factor (CF)=  $\frac{T^2}{N}$

5) SST=  $\sum X_1 + \sum X_2 + \sum X_3 - \frac{T^2}{N}$

6) SSB=  $\frac{(\sum X_1)^2}{N_1} + \frac{(\sum X_2)^2}{N_2} + \frac{(\sum X_3)^2}{N_3} - \frac{T^2}{N}$

7) SSW= SST-SSB

8) For Null Hypothesis:  $H_0: \mu_1 = \mu_2 = \mu_3 = \dots = \mu_n$

9) For Alternative Hypothesis:  $H_0: \mu_1 \neq \mu_2 \neq \mu_3 \neq \dots \neq \mu_n$

10) For Standard Level of Significance: SL= 0.05

11) Total Degree of Freedom: TDF= Total figures-1

12) Between Column Degree of freedom: BDF = C-1

13) Between Mean Square: MSB= SSB÷BDF

14) Within Mean Square: MW= SSW÷WDF

15) Ration of SSB and SSW:  $F = \frac{SSB}{SSW}$

16) Ration of SSB and SST :  $F_1 = \frac{SSB}{SST}$

17) Ration of SSW and SST :  $F_2 = \frac{SSW}{SST}$

18) Acceptation Decision: Calculated Value< Critical Value

19) Rejection Decision: Calculated Value >Critical Value

**Problem-01:** In order to determine whether there are significant difference in the durability of three marks of computers samples of size, n-S are selected from each make and the frequency of repair during the first year of purchased is observed. The results are as follows:

A	B	C
5	8	7
6	10	3
8	11	5
9	12	4
7	4	1

In the view of the above units, what conclusion can you draw?

**Solution:** Let us take the null hypothesis if  $H_0$  and the alternative hypothesis  $H_A$  as follows:

$H_0$  =There is no significant difference in the durability of three marks of computer.

$H_A$  = There is significant difference in the durability of three marks of computer.

symbolically.  $H_0: \mu_1 = \mu_2 = \mu_3 = \dots = \mu_n$  ;  $H_0: \mu_1 \neq \mu_2 \neq \mu_3 \neq \dots \neq \mu_n$

Applying analysis of variance technique:

**Calculation of SST, SSB and SSW**

# Short Course In Business Statistics

**Dr. B. N. Gupta**



## Short Course In Business Statistics:

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Data 8 Classification and Tabulation of Data 9 Diagrammatic Presentation of Data 10 Graphic Presentation of Data 11 Construction of Frequency Distribution 12 Measures of Central Tendency 13 Geometric Mean and Harmonic Mean 14 Partition Values 15 Measures of Dispersion 16 Measures of Skewness 17 Moments 18 Measures of Kurtosis 19 Correlation 20 Index Numbers 21 Analysis of Time Series 22 Interpolation and Extrapolation 23 Regression Analysis 24 Probability Theory 25 Probability Distributions or Theoretical Frequency Distributions 26 Association of Attributes 27 Sampling Theory and Tests of Significance 28 Chi Square Test and Goodness of Fit 29 Analysis of Variance 30 Statistical Quality Control Appendix

**Advances in Business Statistics, Methods and Data Collection** Ger Snijkers, Mojca Bavdaz, Stefan Bender, Jacqui Jones, Steve MacFeely, Joseph W. Sakshaug, Katherine J. Thompson, Arnout van Delden, 2023-02-07 ADVANCES IN BUSINESS STATISTICS METHODS AND DATA COLLECTION Advances in Business Statistics Methods and Data Collection delivers insights into the latest state of play in producing establishment statistics obtained from businesses farms and institutions Presenting materials and reflecting discussions from the 6th International Conference on Establishment Statistics ICES VI this edited volume provides a broad overview of methodology underlying current establishment statistics from every aspect of the production life cycle while spotlighting innovative and impactful advancements in the development conduct and evaluation of modern establishment statistics programs Highlights include Practical discussions on agile timely and accurate measurement of rapidly evolving economic phenomena such as globalization new computer technologies and the informal sector Comprehensive explorations of administrative and new data sources and technologies covering big organic data sources and methods for data integration linking machine learning and visualization Detailed compilations of statistical programs responses to wide ranging data collection and production challenges among others caused by the Covid 19 pandemic In depth examinations of business survey questionnaire design computerization pretesting methods experimentation and paradata Methodical presentations of conventional and emerging procedures in survey statistics techniques for establishment statistics encompassing probability sampling designs and sample coordination non probability sampling missing data treatments small area estimation and Bayesian methods Providing a broad overview of most up to date science this book challenges the status quo and prepares researchers for current and future challenges in establishment statistics and methods Perfect for survey researchers government statisticians National Bank employees economists and undergraduate and graduate students in survey research and economics Advances in Business Statistics Methods and Data Collection will also earn a place in the toolkit of researchers working with data in industries across a variety of fields A *Brief Course in Business Statistics* William Mendenhall, Robert J. Beaver, 1995 This text covers basic descriptive and inferential statistics linear and multiple regression analysis of variance chi square and quality control All problems in the text are based on real data from published sources Each chapter begins with a case description of a business problem and concludes with questions asking the student to analyze the case problem using the tools mastered in the chapter Computer

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**Practical Business Statistics** Andrew F. Siegel, 2011-03-04

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Theoretical Frequency Distribution 15 Correlation 16 Regression Analysis 17 Index Number 18 Analysis of Time Series Table Log Antilog      Business Statistics Using EXCEL and SPSS Nick Lee, Mike Peters, 2015-12-16 Takes the challenging and makes it understandable The book contains useful advice on the application of statistics to a variety of contexts and shows how statistics can be used by managers in their work Dr Terri Byers Assistant Professor University Of New Brunswick Canada A book about introductory quantitative analysis the authors show both how and why quantitative analysis is useful in the context of business and management studies encouraging readers to not only memorise the content but to apply learning to typical problems Fully up to date with comprehensive coverage of IBM SPSS and Microsoft Excel software the tailored examples illustrate how the programmes can be used and include step by step figures and tables throughout A range of real world and fictional examples including The Ballad of Eddie the Easily Distracted and Esha s Story help bring the study of statistics alive A number of in text boxouts can be found throughout the book aimed at readers at varying levels of study and understanding Back to Basics for those struggling to understand explain concepts in the most basic way possible often relating to interesting or humorous examples Above and Beyond for those racing ahead and who want to be introduced to more interesting or advanced concepts that are a little bit outside of what they may need to know Think it over get students to stop engage and reflect upon the different connections between topics A range of online resources including a set of data files and templates for the reader following in text examples downloadable worksheets and instructor materials answers to in text exercises and video content compliment the book An ideal resource for undergraduates taking introductory statistics for business or for anyone daunted by the prospect of tackling quantitative analysis for the first time      **Distribution Data Guide** ,1960      **Business Statistics** David F. Groebner, Patrick W. Shannon, 1993      **Business Research Methods and Statistics Using SPSS** Robert P Burns, Richard Burns, 2008-11-20 Ideal for those with a minimum of mathematical and statistical knowledge Business Research Methods and Statistics Using SPSS provides an easy to follow approach to understanding and using quantitative methods and statistics It is solidly grounded in the context of business and management research enabling students to appreciate the practical applications of the techniques and procedures explained The book is comprehensive in its coverage including discussion of the business context statistical analysis of data survey methods and reporting and presenting research A companion website also contains four extra chapters for the more advanced student along with PowerPoint slides for lecturers and additional questions and exercises all of which aim to help students to Understand the importance and application of statistics and quantitative methods in the field of business Design effective research studies Interpret statistical results Use statistical information meaningfully Use SPSS confidently

**Training for Accountancy ...** Northwestern University (Evanston, Ill.). School of Commerce, 1925      *Modern Business Arithmetic* Harry Anson Finney, Joseph Clifton Brown, 1916

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