

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

Course In Business Statistics Ssm 4th

**Northeastern University (Boston,
Mass.)**



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Business Statistics, 4th Edition J.K. Sharma, 2018 The fourth edition of Business Statistics builds upon the easy to understand problem solving approach that was the hallmark of the previous editions Through detailed discussions on procedures that facilitate interpretation of data this book enables readers to make more considered and informed business decisions Using tools of application and practice in a variety of solved examples and practice problems this book will sharpen the students understanding of basic statistical techniques Business Statistics 4e serves as a core textbook for students of management commerce and computer science studying business statistics for degrees in BBA MBA PGDBM BCom MCom CA ICWA and BE BTech MCA as well as for those preparing for professional and competitive examinations Key Features Learning Objectives clearly outline the learning outcomes of each chapter Case Studies illustrate a variety of business situations and suggest solutions to managerial issues using specific statistical techniques A Chapter Concepts Quiz at the end of each chapter reinforces students understanding of the basic principles and applications Conceptual Questions Self Practice Problems Review Self Practice Problems with Hint and Answers enable students after each chapter to practice and then evaluate themselves *Business Statistics: Problems & Solutions* Sharma J.K., This book meets the specific and complete requirements of students pursuing MBA PGDBM B Com M Com MA Eco CA ICWA BBA BIS BIT BCA etc courses who need to understand the basic concepts of business statistics and apply results directly to real life business problems The book also suits the requirements of students who need practical knowledge of the subject as well as for those preparing for competitive examinations **Business Statistics for Contemporary Decision Making** Ignacio Castillo, Ken Black, Tiffany Bayley, 2023-05-15 Show students why business statistics is an increasingly important business skill through a student friendly pedagogy In this fourth Canadian edition of Business Statistics For Contemporary Decision Making authors Ken Black Tiffany Bayley and Ignacio Castillo uses current real world data to equip students with the business analytics techniques and quantitative decision making skills required to make smart decisions in today s workplace **Solutions Manual to Accompany Introduction to Quantitative Methods in Business: with Applications Using Microsoft Office Excel** Bharat Kolluri, Michael J. Panik, Rao N. Singamsetti, 2016-07-18 Solutions Manual to accompany Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel *Proceedings of the Fourth International Congress on Mathematical Education* M. Zweng, Green, Kilpatrick, Pollack, Suydam, 2012-12-06 Henry O Pollak Chairman of the International Program Committee Bell Laboratories Murray Hill New Jersey USA The Fourth International Congress on Mathematics Education was held in Berkeley California USA August 10 16 1980 Previous Congresses were held in Lyons in 1969 Exeter in 1972 and Karlsruhe in 1976 Attendance at Berkeley was about 1800 full and 500 associate members from about 90 countries at least half of these come from outside of North America About 450 persons participated in the program either as speakers or as presiders approximately 40 percent of these came from the U S or Canada There were four plenary

addresses they were delivered by Hans Freudenthal on major problems of mathematics education Hermina Sinclair on the relationship between the learning of language and of mathematics Seymour Papert on the computer as carrier of mathematical culture and Hua Loo Keng on popularising and applying mathematical methods George Polya was the honorary president of the Congress illness prevented his planned attendance but he sent a brief presentation entitled Mathematics Improves the Mind There was a full program of speakers panelists debates miniconferences and meetings of working and study groups In addition 18 major projects from around the world were invited to make presentations and various groups representing special areas of concern had the opportunity to meet and to plan their future activities

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Ken Black,2009-12-02 Help your students see the light With its myriad of techniques concepts and formulas business statistics can be overwhelming for many students They can have trouble recognizing the importance of studying statistics and making connections between concepts Ken Black s fifth edition of Business Statistics For Contemporary Decision Making helps students see the big picture of the business statistics course by giving clearer paths to learn and choose the right techniques Here s how Ken Black helps students see the big picture Video Tutorials In these video clips Ken Black provides students with extra learning assistance on key difficult topics Available in WileyPLUS Tree Taxonomy Diagram Tree Taxonomy Diagram for Unit 3 further illustrates the connection between topics and helps students pick the correct technique to use to solve problems New Organization The Fifth Edition is reorganized into four units which will help professor teach and students see the connection between topics WileyPLUS WilePLUS provides everything needed to create an environment where students can reach their full potential and experience the exhilaration of academic success In addition to a complete online text online homework and instant feedback WileyPLUS offers additional Practice Problems that give students the opportunity to apply their knowledge and Decision Dilemma Interactive Cases that provide real world decision making scenarios Learn more at www.wiley.co/college/wileyplus

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Mustapha Abiodun Akinkunmi,2019-10-21 Business Statistics with Solutions in R covers a wide range of applications of statistics in solving business related problems It will introduce readers to quantitative tools that are necessary for daily business needs

and help them to make evidence based decisions The book provides an insight on how to summarize data analyze it and draw meaningful inferences that can be used to improve decisions It will enable readers to develop computational skills and problem solving competence using the open source language R Mustapha Abiodun Akinkunmi uses real life business data for illustrative examples while discussing the basic statistical measures probability regression analysis significance testing correlation the Poisson distribution process control for manufacturing time series analysis forecasting techniques exponential smoothing univariate and multivariate analysis including ANOVA and MANOVA and more in this valuable reference for policy makers professionals academics and individuals interested in the areas of business statistics applied statistics statistical computing finance management and econometrics *Catalog of Copyright Entries. Third Series* Library of Congress.

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Solutions Larry Coyne,Joe Dain,Eric Forestier,Patrizia Guitani,Robert Haas,Christopher D. Maestas,Antoine Maille,Tony Pearson,Brian Sherman,Christopher Vollmar,IBM Redbooks,2018-11-27 This IBM Redpaper™ publication takes you on a journey that surveys cloud computing to answer several fundamental questions about storage cloud technology What are storage clouds How can a storage cloud help solve your current and future data storage business requirements What can IBM do to help you implement a storage cloud solution that addresses these needs This paper shows how IBM storage clouds use the extensive cloud computing experience services proven technologies and products of IBM to support a smart storage cloud solution designed for your storage optimization efforts Clients face many common storage challenges and some have variations that make them unique It describes various successful client storage cloud implementations and the options that are available to meet your current needs and position you to avoid storage issues in the future IBM Cloud™ Services IBM Cloud Managed Services and IBM SoftLayer are highlighted as well as the contributions of IBM to OpenStack cloud storage This paper is intended for anyone who wants to learn about storage clouds and how IBM addresses data storage challenges with smart storage cloud solutions It is suitable for IBM clients storage solution integrators and IBM specialist sales representatives **Emerging Solutions for Future Manufacturing Systems** Luis M. Camarinha-Matos,2004-09-13

Industries and particularly the manufacturing sector have been facing difficult challenges in a context of socio economic turbulence characterized by complexity as well as the speed of change in causal interconnections in the socio economic environment In order to respond to these challenges companies are forced to seek new technological and organizational solutions In this context two main characteristics emerge as key properties of a modern automation system agility and distribution Agility because systems need not only to be flexible in order to adjust to a number of a priori defined scenarios but rather must cope with unpredictability Distribution in the sense that automation and business processes are becoming distributed and supported by collaborative networks Emerging Solutions for Future Manufacturing Systems includes the papers selected for the BASYS 04 conference which was held in Vienna Austria in September 2004 and sponsored by the

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Undergraduate Catalog University of Michigan--Dearborn,2011 *Employment on Offshore Drilling Platforms COMPLETE COURSE* Petrogav International Oil & Gas Training Center,2020-07-02 This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry As a BONUS this eBook contains web addresses to 307 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job **Resource book of small business management training and education at colleges and universities** United States. Small Business Administration,1980

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