

## Chapter 3: Descriptive Statistics Numerical Measures

### Measures of Location (Central Tendency)

The central tendency of a distribution is an estimate of the "center" of a distribution of values. There are three major types of estimates of central tendency the **mean**, the **median** and the **mode**.

#### 1. The Mean

- ❖ The (arithmetic) mean or the average is probably the most commonly used method of describing central tendency.
- ❖ The mean of a **sample** is denoted by  $\bar{x}$  (it is read "x bar"), it is an example of **statistic**.
- ❖ The mean of a **population** is denoted by  $\mu$  (it is read "mu"), it is an example of **parameter**.
- ❖ The mean of a sample data with  $n$  items is given by:

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n} = \frac{x_1 + x_2 + \dots + x_n}{n}$$

- ❖ The mean for a population data with  $N$  items is given by:

$$\mu = \frac{\sum_{i=1}^N x_i}{N} = \frac{x_1 + x_2 + \dots + x_N}{N}$$

#### Example 1

Find the mean of the following sample data:

4 6 8 10 12 14 16

#### Solution

$$\begin{aligned}\bar{x} &= \frac{\sum x}{n} = \frac{4+6+8+10+12+14+16}{7} \\ &= \frac{70}{7} \\ &= 10.\end{aligned}$$

#### 2. The Median

- ❖ Another measure of central tendency is the median.
- ❖ The **median** is the value found at the **middle** of the set of values that has been arranged in an increasing order.

# Chapter 3 Descriptive Statistics Numerical Measures

**Gary Smith**



### **Chapter 3 Descriptive Statistics Numerical Measures:**

**Introduction to Quantitative Methods in Business** Bharat Kolluri, Michael J. Panik, Rao N. Singamsetti, 2016-07-07 A well balanced and accessible introduction to the elementary quantitative methods and Microsoft Office Excel applications used to guide business decision making Featuring quantitative techniques essential for modeling modern business situations Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel provides guidance to assessing real world data sets using Excel The book presents a balanced approach to the mathematical tools and techniques with applications used in the areas of business finance economics marketing and operations The authors begin by establishing a solid foundation of basic mathematics and statistics before moving on to more advanced concepts The first part of the book starts by developing basic quantitative techniques such as arithmetic operations functions and graphs and elementary differentiations rates of change and integration After a review of these techniques the second part details both linear and nonlinear models of business activity Extensively classroom tested Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel also includes Numerous examples and practice problems that emphasize real world business quantitative techniques and applications Excel based computer software routines that explore calculations for an assortment of tasks including graphing formula usage solving equations and data analysis End of chapter sections detailing the Excel applications and techniques used to address data and solutions using large data sets A companion website that includes chapter summaries Excel data sets sample exams and quizzes lecture slides and an Instructors Solutions Manual Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel is an excellent textbook for undergraduate level courses on quantitative methods in business economics finance marketing operations and statistics The book is also an ideal reference for readers with little or no quantitative background who require a better understanding of basic mathematical and statistical concepts used in economics and business Bharat Kolluri Ph D is Professor of Economics in the Department of Economics Finance and Insurance at the University of Hartford A member of the American Economics Association his research interests include econometrics business statistics quantitative decision making applied macroeconomics applied microeconomics and corporate finance Michael J Panik Ph D is Professor Emeritus in the Department of Economics Finance and Insurance at the University of Hartford He has served as a consultant to the Connecticut Department of Motor Vehicles as well as to a variety of health care organizations In addition Dr Panik is the author of numerous books including Growth Curve Modeling Theory and Applications and Statistical Inference A Short Course both published by Wiley Rao N Singamsetti Ph D is Associate Professor in the Department of Economics Finance and Insurance at the University of Hartford A member of the American Economics Association his research interests include the status of war on poverty in the United States since the 1960s and forecasting foreign exchange rates using econometric methods Applied Statistical Inference with MINITAB Sally A. Lesik, Sally Lesik, 2009-12-21 Through clear step by step

mathematical calculations Applied Statistical Inference with MINITAB enables students to gain a solid understanding of how to apply statistical techniques using a statistical software program It focuses on the concepts of confidence intervals hypothesis testing validating model assumptions and power analysis Illustr Solutions Manual to Accompany Introduction to Quantitative Methods in Business: with Applications Using Microsoft Office Excel Bharat Kolluri, Michael J. Panik, Rao N. Singamsetti, 2016-07-07 Solutions Manual to accompany Introduction to Quantitative Methods in Business With Applications Using Microsoft Office Excel *Ebook: Business Statistics in Practice: Using Data, Modeling and Analytics* Bowerman, 2016-04-16 Ebook Business Statistics in Practice Using Data Modeling and Analytics *Essential Statistics, Regression, and Econometrics* Gary Smith, 2011-06-22 Essential Statistics Regression and Econometrics provides students with a readable deep understanding of the key statistical topics they need to understand in an econometrics course It is innovative in its focus including real data pitfalls in data analysis and modeling issues including functional forms causality and instrumental variables This book is unusually readable and non intimidating with extensive word problems that emphasize intuition and understanding Exercises range from easy to challenging and the examples are substantial and real to help the students remember the technique better Readable exposition and exceptional exercises examples that students can relate to Focuses on key methods for econometrics students without including unnecessary topics Covers data analysis not covered in other texts Ideal presentation of material topic order for econometrics course **Essentials of Statistics for Business and Economics** David Ray Anderson, Dennis J. Sweeney, Thomas Arthur Williams, 2003 This brief introduction to business statistics balances a conceptual understanding of statistics with the real world application of statistical methodology The essentials version features selected core topics from the authors market leading *Statistics for Business and Economics* 8th presented in 13 chapters It includes the highly regarded strengths of the longer text including the problem scenario approach that uses real world examples to introduce statistical techniques Methods Applications and Self Test exercises include hundreds of problems based on real data Examples and exercises throughout focus on ways that statistics contribute to improving the quality of products and services This text can also be computer integrated at the discretion of the instructor Instruction for data analysis based on Microsoft Excel and MINITAB is included in appendices of appropriate chapters Case problems are also provided with the text with data sets available on disk for both MINITAB and Excel formats *Business Statistics* Ken Black, 2023-05-03 Show students why business statistics is an increasingly important business skill through a student friendly pedagogy *Business Statistics For Contemporary Decision Making* 11th Edition 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 *Statistics for Business and Economics* David Ray Anderson, Dennis J. Sweeney, Thomas Arthur Williams, 1993 *Introductory Statistics* Prem S. Mann, 2020-12-16 Prem Mann understands from experience the challenges many students face when learning statistics in their non native language His clear and straightforward writing

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**Data Analysis for Ocean and Atmospheric Sciences** H. J. Thiébaux, 1994-11-07 Studies of local and global phenomena generate descriptions which require statistical analysis In this text H Jean Thieboux presents a succinct yet comprehensive review of the fundamentals of statistics as they pertain to studies in oceanic and atmospheric sciences The text includes an accompanying disk with compatible Minitab sample data Together this volume and the included data provide insights into the basics of statistical inference data analysis and distributional models of variability Oceanographers meteorologists marine biologists and other environmental scientists will find this book of great value as a statistical tool for their continuing studies Specifically designed for students of the ocean and atmospheric sciences Contains a disk containing files of real ocean and atmospheric data in universal ASCII format on which many of the exercises are based Provides succinct yet comprehensive coverage Designed to teach students statistical methods with the scientific realism of computer analysis and statistical inference

**Voice of the Customer : Capture and Analysis** Kai Yang, 2007-10-24 Discover All the Advantages of Using Design for Six Sigma to Develop and Build Customer Value Based Products Voice of the Customer Capture and Analysis equips Six Sigma you with the skills needed to create and deploy surveys capture real customers need with ethnographic methods immediately analyze the results and coordinate and drive responsive actions Quality expert Kai Yang explains how to utilize the statistical methods of Design for Six Sigma to identify key customer needs and assess the cost of poor quality He then shows how to design robust products to meet those needs optimize product life cycles and accurately validate their findings Voice of the Customer Capture and Analysis features a wealth of information on Six Sigma and value creation customer survey design administration and analysis ethnographic research process management and Lean Product Development the deployment of customer value into products DFSS and value engineering This product design tool enables you to Minimize sources of response and measurement error Discern customer preferences Design VOC research to minimize mistranslation Respond to analytical implications of VOC data Optimize design to decrease sensitivity of CTQs to process parameters With the help of Voice of the Customer Capture and Analysis you can now acquire the skills needed to truly understand a customer s wants and needs in order to develop and build optimal products Most Design for Six Sigma product development teams fall short of truly understanding their customers want and needs until it is too late Market research studies and reports simply do not provide sufficient guidance Today s Six Sigma practitioners need a comprehensive approach to designing and building customer value based products Voice of the Customer Capture and Analysis now gives you the ability to create and deploy surveys capture real voice of the customer in the field immediately analyze the results and coordinate and drive responsive actions This powerful product development tool demonstrates how to utilize the statistical methods of Design for Six Sigma to identify key customer needs assess the cost of poor quality design robust products to meet those needs optimize product life cycles and accurately validate their findings By using the expert methods strategies and guidelines presented in Voice of the Customer Capture and Analysis you can Harness VOC data to create value

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**Introduction to Probability and Statistics** William Mendenhall, 1971      Introduction to Statistics David Ray  
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