

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 μ (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



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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

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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
Anderson,Dennis J. Sweeney,Thomas Arthur Williams,1994

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