

# Unit 9 - Statistics - Study Guide



## Box Plots



### Using the TI-Nspire

Creating the box plot

1. Find One-Variable Statistics
2. HOME  $\rightarrow$  1  $\rightarrow$  9  
Label your data, skip  $\rightarrow$  line, input all data.  
Remember to press enter after last data value!
3. CTRL  $\rightarrow$  doc  $\rightarrow$  5 Press TAB to add your variable to the 1<sup>st</sup> data.
4. MENU  $\rightarrow$  1  $\rightarrow$  2

## Finding One-Variable Statistics

### Using the TI-Nspire

1. HOME  $\rightarrow$  1  $\rightarrow$  9  
Label your data, skip  $\rightarrow$  line, input all data.  
Remember to press enter after last data value!
2. CTRL  $\rightarrow$  doc  $\rightarrow$  1
3. MENU  $\rightarrow$  6  $\rightarrow$  1  $\rightarrow$  1  
Add your data to X1 but then press OK

$\bar{x}$  = mean

$s_x$  = sample standard deviation

$\sigma_x$  = population standard deviation

MinX = minimum

Q1X = quartile 1

MedianX = median

Q3X = quartile 3

MaxX = maximum

## Variation in a Data Set

- Use One-Variable Statistics
- Standard Deviation
  - Tells us how far a data point is away from the mean
  - The further apart the data, the bigger the SD
  - Use  $s_x$  when the data is NOT a sample
  - Use  $\sigma_x$  when the data IS a sample
- Interquartile Range (IQR)
  - Quartile 3 - Quartile 1
  - Represents 50% of the data



## Measures of Central Tendency

- Use One-Variable Statistics
- A single number used to describe a set of data as a whole
- Most common: MEAN and MEDIAN
- Mean = average
- Median = middle value
- Mode = value that appears the most

## Types of Data

### One Variable Data

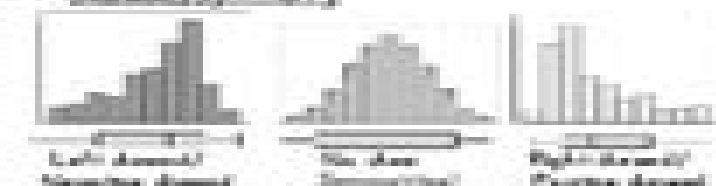
- Data with 1 variable
- Can be modeled using a bar graph, histogram, box plot, circle graph or dot plot

### Two Variable (Structural) Data

- Data with 2 variables
- Typically modeled using a scatterplot
- Use line of best fit
- Causal relationship: Does one CAUSE the other to happen?

## Interpreting Data

### Skewness



- Outliers = a value that "far outside" most of the other values in a set of data

# Essentials And Study Guide Statistics Answer Key

**S Nieto**



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*OCA: Oracle 10g Administration I Study Guide* Chip Dawes, Bob Bryla, Joseph C. Johnson, Matthew Weishan, 2006-02-20

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## **Table of Contents Essentials And Study Guide Statistics Answer Key**

1. Understanding the eBook Essentials And Study Guide Statistics Answer Key
  - The Rise of Digital Reading Essentials And Study Guide Statistics Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Essentials And Study Guide Statistics Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Essentials And Study Guide Statistics Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Essentials And Study Guide Statistics Answer Key
  - Personalized Recommendations
  - Essentials And Study Guide Statistics Answer Key User Reviews and Ratings

- Essentials And Study Guide Statistics Answer Key and Bestseller Lists
- 5. Accessing Essentials And Study Guide Statistics Answer Key Free and Paid eBooks
  - Essentials And Study Guide Statistics Answer Key Public Domain eBooks
  - Essentials And Study Guide Statistics Answer Key eBook Subscription Services
  - Essentials And Study Guide Statistics Answer Key Budget-Friendly Options
- 6. Navigating Essentials And Study Guide Statistics Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Essentials And Study Guide Statistics Answer Key Compatibility with Devices
  - Essentials And Study Guide Statistics Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Essentials And Study Guide Statistics Answer Key
  - Highlighting and Note-Taking Essentials And Study Guide Statistics Answer Key
  - Interactive Elements Essentials And Study Guide Statistics Answer Key
- 8. Staying Engaged with Essentials And Study Guide Statistics Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Essentials And Study Guide Statistics Answer Key
- 9. Balancing eBooks and Physical Books Essentials And Study Guide Statistics Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Essentials And Study Guide Statistics Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Essentials And Study Guide Statistics Answer Key
  - Setting Reading Goals Essentials And Study Guide Statistics Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Essentials And Study Guide Statistics Answer Key
  - Fact-Checking eBook Content of Essentials And Study Guide Statistics Answer Key
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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