

SECTION OVERVIEW

Unit 1: Description

1: Introduction to Behavioral Statistics

- 1.1: Why are you taking this course?
- 1.2: What is a statistic? What is a statistical analysis?
- 1.3: The Scientific Method
- 1.4: Types of Data and How to Measure Them
 - 1.4.1: IV and DV- Variables as Predictors and Outcomes
 - 1.4.2: Qualitative versus Quantitative Variables
 - 1.4.3: Scales of Measurement
- 1.5: Populations and Samples
 - 1.5.1: Collecting Data- More Practice with Populations and Samples
- 1.6: "Research shows that..."
- 1.7: Learning (Statistics)

2: What Do Data Look Like? (Graphs)

- 2.1: Introduction to Looking at Data (This is what too many numbers looks like)
- 2.2: Frequency Tables
- 2.3: APA Style Tables
- 2.4: Graphing Qualitative Variables- Bar Graphs
- 2.5: Graphing Qualitative Variables- Pie Charts
- 2.6: Graphing Quantitative Variables
- 2.7: Skew and Kurtosis
- 2.8: Graphing Quantitative Data- Line Graphs
- 2.9: Graphing Quantitative Data- Histograms
- 2.10: Graphing Quantitative Data- Boxplots
- 2.11: Graphing Quantitative Data- Scatterplots
- 2.12: Summary and Some Honesty
- 2.13: APA Style Charts

3: Descriptive Statistics

- 3.1: Introduction to Descriptive Statistics
- 3.2: Math Refresher
- 3.3: What is Central Tendency?
 - 3.3.1: Introduction to Measures of Central Tendency
 - 3.3.2: Measures of Central Tendency- Mode
 - 3.3.3: Measures of Central Tendency- Median
 - 3.3.4: Measures of Central Tendency- Mean
 - 3.3.5: Summary of Measures of Central Tendency
- 3.4: Interpreting All Three Measures of Central Tendency
- 3.5: Introduction to Measures of Variability
- 3.6: Introduction to Standard Deviations and Calculations
- 3.7: Practice SD Formula and Interpretation

3.8: Interpreting Standard Deviations

3.9: Putting It All Together- SD and 3 M's

4: Distributions

4.1: Introduction to Distributions

4.2: Introduction to Probability

4.3: The Binomial Distribution

4.4: The Law of Large Numbers

4.5: Normal Distributions and Probability Distributions

4.6: Sampling Distributions and the Central Limit Theorem

4.7: Putting it All Together

4.8: Summary- The Bigger Picture

5: Using z

5.1: Introduction to z-scores

5.2: Calculating z-scores

5.2.1: Practice Calculating z-scores

5.3: Introduction to the z table

5.3.1: Practice Using the z Table

5.3.2: Table of Critical Values of z

5.4: Predicting Amounts

5.5: Summary of z Scores

5.6: The Write-Up

6: APA Style

6.1: APA and APA Style

6.2: APA Style Resources

6.3: General Paper Format

6.4: Formatting by Section

6.5: Tables and Figures

6.6: Summary of APA Style

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