

1. Speaking of Statistics

- 1.1 What Is/Are Statistics?
- 1.2 Sampling
- 1.3 Types of Statistical Study
- 1.4 Should You Believe a Statistical Study?
Psych: Are You Driving “Drunk” on Your Cell Phone?
Public Health: Is Your Lifestyle Healthy?

2. Measurement In Statistics

- 2.1 Data Types and Levels of Measurement
- 2.2 Dealing with Errors
- 2.3 Uses of Percentages in Statistics
- 2.4 Index Numbers
Politics: Who Benefits Most From Lower Tax Rates?
Economics: Can a Redefined CPI Help Solve the Budget Crisis?

3. Visual Displays of Data

- 3.1 Frequency Tables
- 3.2 Picturing Distributions of Data
- 3.3 Graphics in the Media
- 3.4 A Few Cautions About Graphics
History: Can War Be Described with a Graph?
Environment: How Can We Visualize Global Warming?

4. Describing Data

- 4.1 What is Average?
- 4.2 Shapes of Distributions
- 4.3 Measures of Variation
- 4.4 Statistical Paradoxes
Stock Market: What’s Average About Dow?
Econ: Are We Changing Earth’s Atmosphere?

5. A Normal World

- 5.1 What is Normal?
- 5.2 Properties of the Normal Distribution
- 5.3 The Central Limit Theorem
Education: What Can We Learn from SAT Trends?
Psychology: Are We Smarter Than Our Parents?

6. Probability in Statistics

- 6.1 The Role of Probability: Statistical Significance
- 6.2 Basics of Probability
- 6.3 Probabilities with Large Numbers
- 6.4 Ideas of Risk and Life Expectancy
- 6.5 Combining Probabilities
Social Science: Do Lotteries Harm the Poor?
Law: Is DNA Fingerprinting Reliable?

7. Correlation and Causality

- 7.1 Seeking Correlation
- 7.2 Interpreting Correlations
- 7.3 Best-Fit Lines and Prediction
- 7.4 The Search for Causality
Education: What Helps Children Read?
Environment: What is Causing Global Warming?

8. From Samples to Populations

- 8.1 Sampling Distributions
- 8.2 Estimating Population Means
- 8.3 Estimating Population Proportions
History: Where Did Statistics Begin?
Literature: How Many Words Did Shakespeare Know?

9. Hypothesis Testing

- 9.1 Fundamentals of Hypothesis Testing
- 9.2 Hypothesis Tests for Population Means
- 9.3 Hypothesis Tests for Population Proportions
Health and Education: Will Your Education Help You Live Longer?
Agriculture: Are Genetically Modified Foods Safe?

10. Tests, Two-Way Tables, and ANOVA

- 10.1 Distribution for Inferences about a Mean
- 10.2 Hypothesis Testing with Two-Way tables
- 10.3 Analysis of Variance (One-Way ANOVA)
Criminology: Can You Tell a Fraud When You See One?
Education: What can 4th-Grader do with statistics?

<https://www.jeffreybennett.com/books/statistical-reasoning-for-everyday-life/>