

## Index

### A

Absolute Risk Reduction (ARR)

[19.2: Proportions](#)

arithmetic mean

[3.3: Measures of Central Tendency](#)

### B

bar graph

[2.8: Bar Charts](#)

base rates

[5.12: Base Rates](#)

Bayes' Theorem

[5.12: Base Rates](#)

[5.13: Bayes Demo](#)

bias

[10.3: Characteristics of Estimators](#)

binomial distribution

[5.10: Multinomial Distribution](#)

binomial probability distribution

[5.7: Binomial Distribution](#)

[5.8: Binomial Demonstration](#)

bivariate data

[4: Describing Bivariate Data](#)

Bonferroni correction

[12.10: Pairwise \(Correlated\)](#)

box plots

[2.6: Box Plots](#)

### C

causation

[6.6: Causation](#)

central limit theorem

[9.5: Sampling Distribution of the Mean](#)

Central Tendency

[3.1: Central Tendency](#)

[3.2: What is Central Tendency](#)

Chi Square

[17.2: One-Way Tables](#)

combination

[5.5: Permutations and Combinations](#)

conditional probability

[5.3: Conditional Probability Demonstration](#)

Confidence Interval

[10.5: Confidence Intervals](#)

[10.7: Confidence Interval for Mean](#)

[10.9: Confidence Interval Simulation](#)

[10.10: Difference between Means](#)

[10.12: Proportion](#)

[10.13: Statistical Literacy](#)

[10.E: Estimation \(Exercises\)](#)

Construct Validity

[6.2: Measurement](#)

continuous variable

[1.6: Variables](#)

contour plots

[8.2: Contour Plots](#)

controls

[1.6: Variables](#)

Cook's D

[14.6: Influential Observations](#)

correlated pairs

[12.7: Correlated Pairs](#)

correlated variables

[4.7: Variance Sum Law II - Correlated Variables](#)

correlation

[4.4: Properties of r](#)

[10.11: Correlation](#)

criterion variable

[14.1: Introduction to Linear Regression](#)

cross correlation

[4.7: Variance Sum Law II - Correlated Variables](#)

cross products

[1.11: Summation Notation](#)

cumulative distribution function

[8.1: Q-Q Plots](#)

Cumulative Probabilities

[5.7: Binomial Distribution](#)

### D

degrees of freedom

[10.2: Degrees of Freedom](#)

dependent variable

[1.6: Variables](#)

descriptive statistics

[1.3: Descriptive Statistics](#)

Difference Between Means

[9.6: Difference Between Means](#)

Difference between Two Means

[12.3: Difference between Two Means](#)

Discrete variables

[1.6: Variables](#)

distance

[14.6: Influential Observations](#)

Distributions

[1.10: Distributions](#)

dot plot

[2.10: Dot Plots](#)

### E

effect size

[19: Effect Size](#)

empirical CDF

[8.1: Q-Q Plots](#)

expected value

[10.3: Characteristics of Estimators](#)

### F

Face Validity

[6.2: Measurement](#)

factorial

[5.5: Permutations and Combinations](#)

Fisher's Exact Test

[18.5: Fisher's Exact Test](#)

Frequency Polygons

[2.5: Frequency Polygons](#)

### G

Gambler's Fallacy

[5.4: Gambler's Fallacy](#)

geometric mean

[3.9: Additional Measures](#)

[16.2: Log Transformations](#)

### H

histogram

[8.1: Q-Q Plots](#)

Histograms

[2.4: Histograms](#)

Honestly Significant Difference test

[12.5: Pairwise Comparisons](#)

Hypergeometric Distribution

[5.11: Hypergeometric Distribution](#)

### I

independent groups

[12.7: Correlated Pairs](#)

independent variable

[1.6: Variables](#)

inferential statistics

[1.4: Inferential Statistics](#)

influence

[14.6: Influential Observations](#)

Interval scales

[1.8: Levels of Measurement](#)

### K

kurtosis

[3.15: Shapes of Distributions](#)

### L

leptokurtic

[1.10: Distributions](#)

[10.8: t Distribution](#)

leverage

[14.6: Influential Observations](#)

line graph

[2.9: Line Graphs](#)

Linear Transformations

[1.12: Linear Transformations](#)

Log Transformations

[16.2: Log Transformations](#)

Logarithms

[1.13: Logarithms](#)

### M

mean

[3.3: Measures of Central Tendency](#)

[3.7: Median and Mean](#)

median

[3.3: Measures of Central Tendency](#)

[3.7: Median and Mean](#)

Misconceptions

[11.9: Misconceptions of Hypothesis Testing](#)

mode

[3.3: Measures of Central Tendency](#)

Monty Hall problem

[5.14: Monty Hall Problem](#)

Multinomial Distribution

[5.10: Multinomial Distribution](#)

Multiplying probabilities

[5.5: Permutations and Combinations](#)

## N

### Nominal scales

[1.8: Levels of Measurement](#)

### normal distribution

[7: Normal Distribution](#)

### NOTE-STURGES' RULE

[2.4: Histograms](#)

## O

### odds ratio

[19.2: Proportions](#)

### orders

[5.5: Permutations and Combinations](#)

### Ordinal scales

[1.8: Levels of Measurement](#)

## P

### pairwise comparison

[12.5: Pairwise Comparisons](#)

### Pearson's correlation

[4.2: Values of the Pearson Correlation](#)

[4.4: Properties of r](#)

### Pearson's measure of skew

[3.15: Shapes of Distributions](#)

### percentiles

[1.7: Percentiles](#)

### permutation

[5.5: Permutations and Combinations](#)

### platykurtic

[1.10: Distributions](#)

### Poisson distribution

[5.9: Poisson Distribution](#)

### power of the test

[13.1: Introduction to Power](#)

[13.5: Factors Affecting Power](#)

### Predictive Validity

[6.2: Measurement](#)

### predictor variable

[14.1: Introduction to Linear Regression](#)

### probability

[5.1: The Concept of "Probability"](#)

### probability distribution function

[1.10: Distributions](#)

### Proportion of Variance

[19.4: Proportion of Variance Explained](#)

## R

### Randomization Association

[18.4: Randomization Association](#)

### Range

[3.12: Measures of Variability](#)

### Ratio scales

[1.8: Levels of Measurement](#)

### relative efficiency

[10.3: Characteristics of Estimators](#)

### Relative Risk Reduction (RRR)

[19.2: Proportions](#)

### reliability

[6.2: Measurement](#)

### research design

[6: Research Design](#)

## S

### sample mean

[9.5: Sampling Distribution of the Mean](#)

### sample Standard Deviation

[9.5: Sampling Distribution of the Mean](#)

### Sampling Bias

[6.4: Sampling Bias](#)

### sampling distribution

[9: Sampling Distributions](#)

### sampling distribution of the mean

[9.5: Sampling Distribution of the Mean](#)

### sampling variability

[10.3: Characteristics of Estimators](#)

### sampling without replacement

[5.11: Hypergeometric Distribution](#)

### scientific method

[6.1: Scientific Method](#)

### significance tests

[11.8: Significance Testing and Confidence Intervals](#)

### skew

[1.10: Distributions](#)

[3.15: Shapes of Distributions](#)

### standard error

[6.2: Measurement](#)

### Sturges' rule

[2.4: Histograms](#)

### Sum of the Squared Errors

[14.3: Partitioning Sums of Squares](#)

### summation notation

[1.11: Summation Notation](#)

### Survivorship Bias

[6.4: Sampling Bias](#)

## T

### t Distribution

[10.8: t Distribution](#)

### tail risk

[7.8: Statistical Literacy](#)

### Transformations

[1.12: Linear Transformations](#)

### trimean

[3.9: Additional Measures](#)

### trimmed mean

[3.9: Additional Measures](#)

### Tukey Ladder of Powers

[16.3: Tukey Ladder of Powers](#)

### type I error

[11.3: Type I and II Errors](#)

### type II error

[11.3: Type I and II Errors](#)

## U

### Undercoverage Bias

[6.4: Sampling Bias](#)

## V

### validity

[6.2: Measurement](#)

### variance

[3.12: Measures of Variability](#)

### Variance Sum Law

[3.18: Variance Sum Law I - Uncorrelated Variables](#)

[4.7: Variance Sum Law II - Correlated Variables](#)

## W

### weapons effect

[20.9: Weapons and Aggression](#)

### Wilcoxon Rank Sum test

[18.6: Rank Randomization Two Conditions](#)