CHAPTER 1

Descriptive Statistics	Inferential Statistics	Population
Sample	Representative sample	Biased sample
Random Sampling	Convenience Sampling	Parameter
Estimate	Constant	Variable
Qualitative variable	Quantitative variable	Continuous Variable
Discrete Variable	Independent Variable (IV)	Dependent Variable (DV)
Levels of the Independent Variable	Extraneous Variable (EV)	Subject Variable
True Independent Variable	Experiment	Quasi-experiment
Descriptive Research	Confound	Levels of Measurement
Nominal	Ordinal	Interval
Ratio		

CHAPTER 2

Frequency	Frequency distribution	Bar graph
Histogram	Polygon	Tails
Skew	Positive skew	Negative skew
Kurtosis	Mesokurtic	Leptokurtic
Platykurtic		

CHAPTER 3

Average	Mean	Consistent estimate
Deviation score	Median	Mode
Outlier		

CHAPTER 4

Dispersion	Range	Clumping or clustering
Mean Deviation	Absolute Mean Deviation	Variance
Standard Deviation	Unbiased	Exhaustive Sampling

CHAPTER 5

Raw score distribution	Standard score	Z score distribution
Standard deviation unit	Area under the curve	Percentile
Outlier	T score	Degrees of freedom

CHAPTER 6

Sampling Error	Sampling Distribution	Sampling Distribution of the Mean

Standard Error of the Mean (SEM)

Sampling Distribution of Differences between Two Sample Means

Point Estimate	Interval Estimate	Confidence Interval

CHAPTER 7

Hypothesis	Null hypothesis Ho	Alternate hypothesis Ha
Hypothesis testing	Type I error	Type II error
Level of significance (alpha)	Hypothesis tests	Test statistic
Critical value	Rejection zone	Beta
Power	Absolute Effect size	Relative effect size
Strong manipulation	Power analysis	Non-directional hypothesis
Non-directional test	Directional hypothesis	Directional test
Y-error bars		

CHAPTER 8

Parametric test	Non-parametric test	Single-sample t-test
Cohen's d	Between subjects	Within subjects
Independent t-test	Homogeneity of variance	Levene's test
Dependent t-test	Extraneous variable (EV)	Confound
Pairing/matching		

CHAPTER 9

Single factor ANOVA	Factor	Per comparison alpha
Experiment-wise alpha	One-way independent ANOVA	One-way repeated ANOVA
One-way randomized blocks ANOVA	Post hoc test	Tukey, Newman-Keuls, Scheffe
Within group variability	Pooled variance	Error term
Between group variability	Effect to be tested	Partial eta squared
Sphericity	Mauchly's test	Greenhouse-Geisser
Pairwise comparisons	Observed power	

CHAPTER 10

Factorial ANOVA	Two-way Independent ANOVA	Cell mean
Marginal mean	Main effect	Interaction effect
Tests of simple main effects	Two-way repeated ANOVA	Two-way mixed ANOVA

CHAPTER 11

Chi square test	Goodness of fit test	Observed frequencies
Expected frequencies	Contingency test	Yates continuity correction

CHAPTER 12

Pearson correlation	Correlation coefficient	Homoscedasticity
Linearity	Positive correlation	Negative correlation
Restriction of range	Coefficient of determination	Regression
Best fitting line	Standard error of estimation	Residual
Multiple regression	Multicollinearity	Y-prime (Y')