

## Quiz #1      Chapters 1-2

**Basic Concepts & Data Description**

## CONCEPTS:

- Data
- Variables
  - Categories: Mutually Exclusive & Exhaustive
  - Independent & Dependent
- Levels of Measurement*
  - Nominal
  - Ordinal
  - Interval
- f
- N
- Percent ( $\% = \frac{f}{N} * 100$ )
- Proportion ( $\frac{f}{N}$ )
- Rate ( $\frac{f}{N} * factor$ )
- Frequency & Percentage Distribution
- Cross-tabulation Table
- Graphs & Charts*
  - Pie Chart
  - Bar Graph
  - Histogram
  - Line Chart or Frequency Polygon
- Statistical Map

Quiz #2

Chapters 3-4

**Central Tendency & Variability**

CONCEPTS:

- Central Tendency*
  
- Mean ( $\bar{X}$ )
  
- Median
  
- Mode
  
- Percentiles
  
- Variability*
  
- Range (R)
  
- Inter-quartile Range (IQR)
  
- Mean Deviation
  
- Variance ( $s^2$ )
  
- Standard Deviation (s -or- sd))

Quiz #3

Chapters 5-6

**Populations & Sampling**

CONCEPTS:

- Probability
  - Addition Rule (either/or)
  - Multiplication Rule (and)
- Z-Score
- Normal Curve
- Law of Large Numbers
- Central Limit Theorem
- Populations & Parameters
- Sample & Statistics
- Sampling
- Sampling Error
- Simple Margin of Error
- Standard Error
- Significance Level
- Margin of Error
- Confidence Statement
- Confidence Intervals

Quiz #4

Chapters 7-8-9

**Hypothesis Testing**

CONCEPTS:

- Research Hypothesis
  
- Null Hypothesis
  
- Alpha Level ( $\alpha$ )
  
- Critical Value
  
- Test decision
  
- Test interpretation
  
- T-Test (t)
  
- ANOVA (F)
  
- Chi-Square ( $\chi^2$ )
  
- [Cross-tab Tables: Percentage Across (IV), Compare Down (DV)]

Quiz #5

Chapters 10-11-12

**Correlations & Regression**

CONCEPTS:

 Correlation Coefficient Regression Equation

- Slope

- Y-Intercept

 Phi Contingency Coefficient Cramer's V (Lambda) (Gamma) (Somers's d)