

Exam 3 Study Guide
PSYC 381

Inferential Statistics (Chapter 7)

- Normal curve
 - ubiquity of
 - properties & benefits of normal distributions
- standardization
- z distribution & standard normal distribution
- transforming z scores into percentiles and vice versa
- central limit theorem
- distribution of means, characteristics of
- standard error
- sampling error

Hypothesis Testing with z Tests (Chapter 8)

- benefits of standardization
- hypothesis testing & steps of
- assumptions of hypothesis tests
- robust tests
- parametric vs. nonparametric tests
- null vs. research hypotheses
- comparison distribution
- critical values (AKA cutoffs) & critical region
- p levels/values
- statistically significant
- z test, how & when to use
- one-tailed vs. two-tailed tests
- relationship between sample size and test statistic
- z table & z distribution

Hypothesis Testing with t Tests (Chapter 9)

- estimating σ from the sample, correction
- sample size & degrees of freedom
- t statistic, t table, & t distribution
- single sample t test, how & when to use
- paired samples t test, how & when to use
 - distribution of mean differences
- independent samples t test, how & when to use
 - distribution of differences between means
- between-groups vs. within-groups
- pooled variance