

Test 2 Review

- The test is mostly short answer, with some multiple choice and essay
- There are only 15 questions, so focus on the most important points

General Test Advice:

- Answer every question even if you guess – you can get partial credit
- Show your work – you can get partial credit even if the final answer is incorrect
- Work through practice items in text book and text website
- You will be given formulas, but you need to know what to do with them

Topics:

- Be able to identify (roughly) the proportion of people above and below different z-scores out to a possible z score of + or – 3
- Be able to calculate z-scores given means and standard deviations
- Be able to explain Type I and Type II error, how the two relate, and describe each type of error in a specific study example
- Be able to identify the appropriate t-test given a study description
- Be able to walk through the steps of inferential analysis for an independent samples t-test
 - Statement of hypotheses (both in words and statistically)
 - Calculate the t statistic given a set of raw data
 - Identify the critical value for a test from a table like that in your textbook
 - Determine whether to reject or fail to reject the null hypothesis based on the critical value and test statistic
 - Report the findings
- Be able to walk through the steps of inferential analysis for a dependent samples t-test
 - Statement of hypotheses (both in words and statistically)
 - Calculate the t statistic given a set of raw data
 - Identify the critical value for a test from a table like that in your textbook
 - Determine whether to reject or fail to reject the null hypothesis based on the critical value and test statistic
 - Report the findings