

1. A social psychologist was interested in sex differences in the sociability of teenagers. Using number of “good friends” as a measure, he compared the sociability of random samples of seven female and seven male teenagers. Are males and females different with respect to sociability?

Data Excluded

2. In a test of the relationship between exercise and depression, subjects responded to a depression scale and then began a regular aerobic exercise regimen. After one month, their level of depression was again assessed. The data follow. Perform the appropriate analysis and write your interpretation. Then write a recommendation that could be made to people who are depressed with regard to an exercise regimen. Be sure to base your recommendation upon the research design.

Data Excluded

3. An industrial psychologist is interested in the relationship between aggression and salesmanship. The company recently ranked their 15 salespeople (rank of 1 indicates the most sales). The psychologist has each of these salespeople complete an aggression scale (assume it reaches an interval scale of measurement). Higher scores indicate a higher level of aggressiveness. Choose the appropriate statistic to analyze these data.

Data Excluded

4. A statistics professor is interested in the relationship between studying and grades. She asks each of her 10 students how many hours they studied for the midterm and then looks at their grades on that exam. Construct a scatterplot. Choose a statistic to analyze these data, compute the statistic, make a decision and write your interpretation. Then make a recommendation.

Data Excluded

Specimen Answer Sheet
One Sheet Per Question

STATISTICS LAB FINAL Answer Sheet

1. Statistic _____

Null hypothesis _____ Alternative hypothesis: _____

Criterion: _____ Observed: _____

Decision: _____

Interpretation: _____

Recommendation: _____

Name _____	Semester _____ Year _____
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Course Goal - Statistics

	Question 1	Question 2	Question 3	Question 4	Row Subtotal
Criteria 1					
Statistics (2)					
Null Hypothesis (1)					
Alternative Hypothesis (1)					
Criteria 1 Total (0-16 points)					
Criteria 2					
Criterion (2)					
Decision (2)					
Observation (4)					
Criteria 2 Total (0-32 points)					
Criteria 3 (Interpretation)					
Variables correctly Identified (3)					
Outcome clearly explained (3)					
Statistical Outcome correctly included(2)					
Correct grammar & Spelling (2)					
Criteria 3 Total (0-40 points)					
Criteria 4					
Appropriate Recommendation Made(4)					
Study Identified as ex post facto or experimental (2)					
Criteria 4 Total (0- 12 points)					

Grand Total