

Week 7: Quiz | Statistics

Started: Apr 16 at 8:32am

Score for this attempt: 200 out of 200

Quiz Instructions

Week 7

Statistics



Quiz

Purpose

The purpose of this quiz is for you to demonstrate application of knowledge of parametric and non-parametric statistics.

Instructions

Take the quiz assigned for this week. The quiz is locked until Day 1 of Week 7. You may take the quiz anytime during this week.



Attempts: 2

- The highest score will be recorded in the gradebook. If you are satisfied with your score on the first attempt, no need to retake the quiz a second time.
- Questions: All quiz questions come directly from the course content.
- Time Limit: None
 - While there is no time limit to complete the quiz, we suggest you allow 30-45 minutes of uninterrupted time to complete the quiz.
- Respondus Lockdown Browser: Not required
 - You may use your resources while taking the quiz.

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Course Outcomes

This assignment enables the student to meet the following course outcomes:

1. Evaluate selected statistical methods for the purposes of critiquing the research to complement the critical appraisal of evidence. (POs 3, 5, 7, 9)

Due Date

- ♦ By 11:59 p.m. MT on Sunday
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Question 1

8 pts

When researchers set the level of significance, they are thinking about the possibility of Type I and Type II errors. In a study on cancer, which of these answers below would be a consequence of a type I error?

- ☐ The scientists report the chemotherapy is effective when it is not effective. The scientists report the chemotherapy is not effective when it is effective. There is no way to determine the answer in this scenario
- ☐
- ☒
- ☐

Question 2

8 pts

Using the interactive statistical flowchart, which of the options below is an assumption of the Mann Whitney U test?

- ☐ The data sample size must be at least 200
- Top**
- ☐ The data is arranged in a scatter plot
- ☐ Independence of observations, or the data is independent of each other
- ☒ The data are related to each other
- ☐

Question 3

8 pts

The DNP student is reading a research article in which there are 2 groups and one intervention. The level of measurement is ratio level data. The researchers measured the relations

☒ John's Relational test Bonjovi's test
Regression Analysis

☐ Spearman's Rank Correlation

☐

☐

Question 4

8 pts

A Ph.D. nurse performs an experiment testing the frequency and correlation of the participant den
distribution?

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