



## Required Quiz 8.1: Week 8 Quiz

Due Nov 21 at 11:59pm Points 20 Questions 20  
Available Nov 8 at 12am - Nov 21 at 11:59pm Time Limit 30 Minutes

### Submission Details:

Time: 25 minutes  
Current Score: 14 out of 20  
Kept Score: 14 out of 20

### Instructions



#### ⌚ Learning Outcome Addressed

1. Organize, manage, and present data.
2. Apply various statistical tools in the business scenario.

It is now time to assess your understanding of the concepts covered so far in this module.

#### Quiz Instructions

- The time limit for this quiz is 30 mins. Kindly complete and submit this quiz within this time.
- You have only one attempt to answer the quiz.
- All quiz attempts must be attempted by **Friday, November 21, 2025, by 11:59 PM IST**.
- The correct answers will be displayed after quiz submissions deadline.

**Note:** This is a graded quiz and counts towards programme completion.

This quiz was locked Nov 21 at 11:59pm.

### Attempt History

Attempt	Time	Score
LATEST	Attempt 1	25 minutes 14 out of 20

Score for this quiz: 14 out of 20

Submitted Nov 19 at 8:17am

This attempt took 25 minutes.

#### Question 1 0 / 1 pts

For comparing three or more related samples with ordinal data, which non-parametric test should be used?

You Answered

Kruskal-Wallis test

Wilcoxon signed rank test

Median test

Friedman two-way ANOVA

Correct Answer

That's incorrect! Revisit the videos for this week.

#### Question 2 1 / 1 pts

Which group has the higher rank sum?

Group A: [12, 15, 14, 10, 18]

Group B: [17, 16, 19, 13, 11]

Group X: [20, 22, 21, 19, 18]

Group Y: [25, 24, 23, 26, 27]

No significant difference

Yes, Group Y has higher ranks

Yes, Group X has higher ranks

Cannot be determined

That's correct!

Correct!

### Question 3

0 / 1 pts

What type of data does the Friedman test use?

Categorical data

Continuous data

Only nominal data

Ranked or numeric data

That's incorrect! Revisit the videos for this week.

You Answered

Correct Answer

### Question 4

1 / 1 pts

What is used to determine the significance of the Kruskal-Wallis test?

Z-distribution

T distribution

F-distribution

Chi square-distribution

That's correct!

Correct!

### Question 5

1 / 1 pts

In a scenario where you have five treatments and ten blocks, how would you test the differences between the treatments using ranks?

Kruskal-Wallis test

Median test

Friedman two-way ANOVA

Wilcoxon signed rank test

Correct!

That's correct!

### Question 6

1 / 1 pts

What happens to tied observations in the Friedman test?

- They are ignored
- They are given the highest rank
- They are given the lowest rank
- They are assigned average ranks

Correct!

That's correct!

### Question 7

0 / 1 pts

What is the Wilcoxon Signed Rank Test used for?

You Answered

- Comparing independent groups
- Comparing paired samples
- Testing correlation
- Analysing variance

Correct Answer

That's incorrect! Revisit the videos for this week.

### Question 8

1 / 1 pts

The Kruskal-Wallis test is used to compare how many groups?

- Two
- More than two
- One
- Four

Correct!

That's correct!

### Question 9

1 / 1 pts

What is the critical value used for in hypothesis testing?

- To decide the significance level
- To calculate the mean

Correct!

- To compare against the test statistic
- To determine the sample size

That's correct!

### Question 10

1 / 1 pts

Which level of significance is commonly used in the Friedman test?

Correct!

- 0.05
- 0.20
- 0.01
- 0.10

That's correct!

### Question 11

1 / 1 pts

Which type of data is suitable for the Mann-Whitney U test?

Correct!

- Binary data
- Ordinal or continuous data
- Nominal data
- Categorical data

That's correct!

### Question 12

0 / 1 pts

What happens if the calculated K value is less than the table value?

You Answered

- Reject the null hypothesis

Correct Answer

- Accept the null hypothesis
- Perform a t-test
- Increase the sample size

That's incorrect! Revisit the videos for this week.

### Question 13

1 / 1 pts

What conclusion does the Kruskal-Wallis test help draw?  
Monthly Sales in Stores. Monthly sales (in thousands) for three stores are observed:

Store A: 30, 35, 28  
Store B: 32, 30, 29  
Store C: 31, 33, 34

- The most expensive product
- The highest selling store
- Variance in sales performance
- Sales trends over time

Correct!

That's correct!

#### Question 14

0 / 1 pts

Which test is appropriate for comparing two related samples with ordinal data?

- Kruskal-Wallis test
- Friedman test
- Sign test
- Wilcoxon matched pairs test

You Answered

Correct Answer

That's incorrect! Revisit the videos for this week.

#### Question 15

1 / 1 pts

What does the test statistic 'T' represent in the Wilcoxon Signed Rank Test?

- Minimum of positive or negative rank sums
- Mean of the dataset
- Maximum rank value
- Total number of observations

Correct!

That's correct!

#### Question 16

1 / 1 pts

What type of data is suitable for the Kruskal-Wallis test?

- Nominal
- Binary
- Categorical
- Ordinal or continuous

Correct!

That's correct!

### Question 17

1 / 1 pts

Which test would you use to compare the medians of three or more independent samples with ordinal data?

- Friedman test
- Kruskal-Wallis test
- T test
- One-way ANOVA

That's correct!

Correct!

### Question 18

1 / 1 pts

In the Friedman test, data is organized in which format?

- List format
- Graph format
- Matrix format
- Table format

That's correct!

Correct!

### Question 19

0 / 1 pts

Which branch of statistics uses analytical tools to draw conclusions about a population from sample data?

- Exploratory statistics
- Predictive statistics
- Descriptive statistics
- Inferential statistics

That's incorrect! Revisit the videos for this week.

You Answered

Correct Answer

### Question 20

1 / 1 pts

The Wilcoxon Signed Rank Test is an alternative to which test?

- Chi-square test
- Independent t-test
- Paired sample t-test

Correct!

ANOVA

That's correct!

Quiz Score: **14** out of 20

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