




Account




Dashboard




Courses




Calendar



Inbox



Help



- Home
- Modules
- People
- Announcements
- Discussions
- Quizzes
- SEM 1: Financial Accounting
- SEM 1: Principles of Management
- SEM 1: Business Communication
- SEM 1: Business Statistics
- SEM 1: Managerial Economics
- Live Sessions

# 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	<a href="#">Attempt 1</a>	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 10 / 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 21 / 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

Correct!

That's 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

You Answered

Correct Answer

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

### 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

Correct!

That's 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

Correct Answer

- ☐ Comparing paired samples
- ☐ Testing correlation
- ☐ Analysing variance

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

Correct!

That's correct!

### Question 18

1 / 1 pts

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

- ☐ List format
- ☐ Graph format
- ☐ Matrix format
- ☒ Table format

Correct!

That's 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

You Answered

Correct Answer

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

### 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

◀ [Previous](#)

[Next](#) ▶