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Required Quiz 7.1: Week 7 Quiz

Due Nov 14 at 11:59pm Points 20 Questions 20
 Available Nov 1 at 12am - Nov 14 at 11:59pm Time Limit 30 Minutes

Submission Details:

Time: 15 minutes
 Current Score: 10 out of 20
 Kept Score: 10 out of 20

Instructions



⌚ Learning Outcome Addressed

1. 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 14, 2025, by 11:59PM 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 14 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	15 minutes	10 out of 20

Score for this quiz: 10 out of 20

Submitted Nov 9 at 4:50pm

This attempt took 15 minutes.

Question 1	1 / 1 pts
What is the null hypothesis in a two-sample proportion test?	
<input type="radio"/> The means are different <input type="radio"/> The means are equal <input checked="" type="radio"/> The proportions are equal <input type="radio"/> The proportions are different	
Correct!	
<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"> That's correct! </div>	

Question 2	1 / 1 pts
What does the Kruskal-Wallis H Test help determine?	

Correct!

- The difference between two paired samples
- The difference between more than two independent groups
- The mean of one sample
- The difference between two independent samples

That's correct!

Question 3

0 / 1 pts

What is the standard error formula for proportions?

Correct Answer

- p/n
- $\sqrt{pq/n}$

You Answered

- $\sum(x_i - \bar{x})^2/n$

- $(p+n)/q$

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

Question 4

0 / 1 pts

A company wants to evaluate the impact of a new training program on employee performance. Employee performance scores before and after the training are given as follows:

Before Training: [50, 55, 60, 65, 70]

After Training: [55, 60, 65, 70, 75]

Using the Wilcoxon Signed-Rank Test, what is the test statistic (W) for the difference between the paired scores?

You Answered

- $W = 5$

Correct Answer

- $W = 10$
- $W = 15$
- $W = 20$

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

Question 5

0 / 1 pts

A retailer wants to know if there is a significant difference in the proportion of online shoppers between two regions. Region A has 150 satisfied customers out of 300, and Region B has 180 satisfied customers out of 350. What is the pooled proportion?

Correct Answer

- 0.48

- 0.49

You Answered

- 0.50

- 0.47

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

Question 6

1 / 1 pts

What is the purpose of a two-sample proportion test?

- Compare two variances
- Compare two medians
- Compare two proportions
- Compare two means

That's correct!

Correct!**Question 7**

1 / 1 pts

What is a key characteristic of non-parametric tests?

- They require numeric data
- They do not assume normal distribution
- They assume normal distribution
- They require large sample sizes

That's correct!

Correct!**Question 8**

1 / 1 pts

If the p-value is less than the significance level, what decision is made?

- Increase the sample size
- Accept the alternative hypothesis
- Accept the null hypothesis
- Reject the null hypothesis

That's correct!

Correct!**Question 9**

1 / 1 pts

Which statistic is used to determine if there is a significant difference between two sample proportions?

- chi-square statistic
- z-statistic

Correct!

F-statistic

t-statistic

That's correct!

Question 10

0 / 1 pts

What is the historical customer satisfaction rate?

75%

70%

60%

65%

You Answered

Correct Answer

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

Question 11

1 / 1 pts

Which type of data does the Kruskal-Wallis H Test analyse?

Ordinal data from multiple independent groups

Numeric data with normal distribution

Numeric data from a single group

Ordinal data from paired samples

Correct!

That's correct!

Question 12

0 / 1 pts

Which assumption is required for hypothesis testing of proportions?

Binary outcomes

Matched samples

Normal distribution

Correct Answer

You Answered

Continuous data

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

Question 13

0 / 1 pts

What is the primary advantage of non-parametric tests?

You Answered

Correct Answer

- They are always more accurate than parametric tests
- They require large sample sizes

They require normal distribution of data

- They handle non-metric data and skewed distributions

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

Question 14

1 / 1 pts

A hospital is comparing the success rate of two treatments. Treatment A has a success rate of 78% with 160 patients, while Treatment B has a success rate of 82% with 180 patients. What is the p-value if the calculated z-value is -1.48?

0.12

0.09

0.14

0.07

That's correct!

Correct!

Question 15

0 / 1 pts

If you have a 4x5 contingency table, how many degrees of freedom will your Chi-Square test have?

15

12

20

8

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

Correct Answer

You Answered

Question 16

1 / 1 pts

For which scenario would you use the Mann-Whitney U Test?

To compare customer preferences among multiple store layouts

To compare scores before and after training

To compare performance scores within the same group

To compare satisfaction ratings between two products

That's correct!

Correct!

Question 17

0 / 1 pts

What does a high Chi-Square value indicate?

- High reliability of the data sample
- High likelihood of the null hypothesis being true
- High consistency of observed and expected values

You Answered

Correct Answer

- Low likelihood of the null hypothesis being true

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

Question 18

0 / 1 pts

What is the critical value of Chi-Square at 0.05 significance level with 3 degrees of freedom?

- 9.49
- 5.99

You Answered

Correct Answer

- 7.81
- 11.07

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

Question 19

0 / 1 pts

A researcher wants to compare customer satisfaction ratings between two products using an ordinal scale (1-5 stars). Which non-parametric test should they use?

- Kruskal-Wallis H Test
- Mann-Whitney U Test
- Paired t-Test
- Chi-Square Test

You Answered

Correct Answer

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

Question 20

1 / 1 pts

What does the Chi-Square test of independence assess?

- Difference between two sample means
- Relationship between two quantitative variables
- Relationship between two categorical variables

Correct!

Variance within a single sample

That's correct!

Quiz Score: **10** out of 20

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