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Required Quiz 6.1: Week 6 Quiz

Due Oct 24 at 11:59pm Points 20 Questions 20
 Available Oct 11 at 12am - Oct 24 at 11:59pm Time Limit 30 Minutes

Submission Details:

Time: 16 minutes
 Current Score: 11 out of 20
 Kept Score: 11 out of 20

Instructions



⌚ Learning Outcome Addressed

1. Organise, manage and present data.
2. Apply probability in business.

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, October 24, 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 Oct 24 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	16 minutes	11 out of 20

Score for this quiz: 11 out of 20

Submitted Oct 22 at 11:19am

This attempt took 16 minutes.

Question 1

1 / 1 pts

What is partitioned into components in ANOVA?

Range

Variance

Mean

Proportion

Correct!

That's correct!

Question 2

0 / 1 pts

How many years of data were analysed?

Correct Answer

6 years

You Answered

4 years

3 years

5 years

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

Question 3

1 / 1 pts

Which condition requires the use of a pooled variance?

Correct!

Categorical data

Equal variances

Large sample sizes

Unequal variances

That's correct!

Question 4

1 / 1 pts

What does One-Way ANOVA test?

Correct!

Variance equality

Proportion differences

Independence

Mean equality

That's correct!

Question 5

0 / 1 pts

What is assumed about the population standard deviation in the t-test described?

Correct Answer

It is infinite

It is unknown

It is zero

You Answered

It is known

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

Question 6

0 / 1 pts

How is within-column variance denoted?

You Answered σb^2 p-value F σw^2 **Correct Answer**

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

Question 7

0 / 1 pts

Given a paired sample difference mean of 3.2, standard deviation of 1.5, and sample size of 10, what is the standard error?

Correct Answer 0.47 0.45 0.48 0.46**You Answered**

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

Question 8

1 / 1 pts

What does One-Way ANOVA compare?

Correct! Medians Means Proportions Variances

That's correct!

Question 9

0 / 1 pts

If the between-column variance (σb^2) is 200 and K = 3, what is the calculated F if $\sigma w^2 = 50$?

Correct Answer 4**You Answered** 2 5 3

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

Question 10

0 / 1 pts

What does the standard error measure in hypothesis testing?

- Sample size
- Precision of the sample mean
- Population variance
- Data variability

Correct Answer

You Answered

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

Question 11

1 / 1 pts

Which of the following affects the power of a test?

- Confidence interval
- Sample mean
- Population variance
- Sample size

Correct!

That's correct!

Question 12

0 / 1 pts

What is the main purpose of hypothesis testing?

- To test assumptions
- To collect data
- To make predictions
- To determine relationships

Correct Answer

You Answered

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

Question 13

1 / 1 pts

What does the confidence interval represent?

- The variability in the data
- The precision of a test statistic

Correct!

Correct!

- The range within which the true parameter lies

- The range of sample values

That's correct!

Question 14

1 / 1 pts

What does a significant F-statistic indicate?

- All variances are equal

- No significant differences

- All groups have the same mean

- At least one group mean is different

Correct!

That's correct!

Question 15

1 / 1 pts

What is a key assumption of the paired t-test?

- Known population variance

- Large sample size

- Normally distributed differences

- Independent samples

Correct!

That's correct!

Question 16

0 / 1 pts

What does a two-tailed test assess?

You Answered

- Whether two sample variances are different

- Whether a sample mean is greater

- Whether two sample means are different

- Whether a sample mean is less

Correct Answer

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

Question 17

0 / 1 pts

What is the primary purpose of hypothesis testing?

You Answered

- To test assumptions about data

Correct Answer

- To estimate population parameters
- To determine if there is a significant effect
- To calculate sample size

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

Question 18

1 / 1 pts

Which sample size condition is needed for the t-test?

- Larger than 100
- Exactly 50
- Exactly 10
- Less than 30

That's correct!

Correct!

Question 19

1 / 1 pts

What does "K" represent in ANOVA?

- Degree of freedom
- Total number of observations
- Number of groups
- Sample size

That's correct!

Correct!

Question 20

1 / 1 pts

Given variances: $\sigma_b^2 = 10$, $\sigma_w^2 = 5$, what is the F-ratio?

- 0.5
- 1
- 3
- 2

That's correct!

Correct!

Quiz Score: 11 out of 20

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