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Required Quiz 9.1: Week 9 Quiz

Due Nov 28 at 11:59pm Points 20 Questions 20
 Available Nov 15 at 12am - Nov 28 at 11:59pm Time Limit 30 Minutes

Submission Details:

Time: 12 minutes

Current Score: 17 out of 20

Kept Score: 17 out of 20

Instructions



⌚ Learning Outcome Addressed

- Organize, manage, and present data.
- 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 28, 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 28 at 11:59pm.

Attempt History

Attempt	Time	Score
LATEST	Attempt 1	12 minutes

Score for this quiz: 17 out of 20

Submitted Nov 26 at 9:38pm

This attempt took 12 minutes.

Question 1

0 / 1 pts

Using the data below, compute the correlation coefficient (r). What is the correlation coefficient (r)?

X Y ΣX^2 ΣY^2

1 3 3 1 9

2 5 10 4 25

3 7 21 9 49

4 9 36 16 81

• $\Sigma X = 10$

• $\Sigma Y = 24$

• $\Sigma X_i Y_i = 70$

• $\Sigma X_i^2 = 30$

• $\Sigma Y_i^2 = 164$

• $n = 4$

0.75

0.95

0.9

You Answered

Correct Answer

0.85

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

Question 2

1 / 1 pts

What is the primary goal of predictive analytics?

- To analyse past data
- To identify future trends and outcomes
- To describe current conditions
- To generate random data

Correct!

That's correct!

Question 3

0 / 1 pts

If the regression equation is $Y=60-2.5X$, what is the expected test score for 18 interruptions?

- 10
- 15
- 20
- 12

You Answered

Correct Answer

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

Question 4

1 / 1 pts

What does a negative Spearman correlation coefficient indicate?

- No relationship between variables
- Variables are negatively correlated
- Variables are uncorrelated
- Variables are positively correlated

Correct!

That's correct!

Question 5

1 / 1 pts

In simple regression, which variable is predicted?

- Control variable

Correct!

Random variable

Dependent variable

Independent variable

That's correct!

Question 6

1 / 1 pts

Using the Spearman formula, if $i = 10$ and $n=5$ what is ρ ?

Correct!

0.50

0.60

0.90

0.77

That's correct!

Question 7

1 / 1 pts

The intercept 'a' in the regression equation represents:

Correct!

The average value of Y

The starting value of Y when X is zero

The average value of X

Change in Y for one unit change in X

That's correct!

Question 8

1 / 1 pts

In a dataset where the Spearman correlation coefficient is calculated as 0.49, what does this value indicate?

Correct!

No relationship

Strong negative relationship

Perfect positive relationship

Moderate positive relationship

That's correct!

Question 9

1 / 1 pts

In a negative correlation, what happens to one variable when the other

In a negative correlation, what happens to one variable when the other variable increases?

- Both variables increase
- One variable decreases
- The relationship is unpredictable
- One variable remains constant

That's correct!

Correct!

Question 10

1 / 1 pts

Which value indicates a perfect positive correlation?

- 1
- 0
- 0.5
- +1

That's correct!

Correct!

Question 11

1 / 1 pts

Which technique is a simple form of predictive analytics?

- Linear regression
- Artificial neural networks
- Deep learning
- Data mining

That's correct!

Correct!

Question 12

1 / 1 pts

What type of correlation does Spearman Correlation measure?

- Non-monotonic relationship
- Linear relationship
- Monotonic relationship
- Causal relationship

That's correct!

Correct!

Question 13

1 / 1 pts

What is required for simple regression analysis?

- Ordinal data
- Categorical data
- Numeric data
- Non-linear data

That's correct!

Correct!**Question 14**

1 / 1 pts

What is the purpose of regression analysis?

- To predict the value of one variable based on another
- To classify data
- To test independence between variables
- To find patterns in categorical data

That's correct!

Correct!**Question 15**

1 / 1 pts

A company wants to forecast future sales based on historical sales data. They use a linear regression model with sales as the dependent variable and marketing spend as the independent variable. If the model equation is $Sales = 50 + 2 \times Marketing Spend$, what will be the forecasted sales if the marketing spend is \$1000?

- \$1500
- \$1000
- \$2050
- \$205

That's correct!

Correct!**Question 16**

1 / 1 pts

Which pattern is characterized by one variable increasing while the other decreases?

- Perfect correlation
- Positive correlation
- Negative correlation

Correct!

No correlation

That's correct!

Question 17

1 / 1 pts

What is the primary purpose of simple regression?

To test independence of categorical variables

To determine the relationship between one dependent and one independent variable

To find the relationship between multiple variables

To predict categorical outcomes

That's correct!

Correct!

Question 18

1 / 1 pts

What does Karl Pearson Correlation measure?

The causality between two variables

The degree of non-linear relationship between two variables

The strength and direction of a linear relationship between two variables

The mean of two variables

That's correct!

Correct!

Question 19

1 / 1 pts

What does a Spearman correlation coefficient of +1 indicate?

Perfect positive monotonic relationship

Perfect negative monotonic relationship

Moderate negative relationship

No relationship

That's correct!

Correct!

Question 20

0 / 1 pts

When is Spearman Correlation typically used?

When is Spearman Correlation typically used?

- When data is normally distributed
- When dealing with ordinal data or ranks
- When data is not measured on a ratio scale
- When assessing the strength of a linear relationship

Correct Answer

You Answered

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

Quiz Score: 17 out of 20

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