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Courses » Business Statistics

Announcements

Course

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Unit 13 - Week 12

Register for Certification exam

Course outline

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Week 12

Lesson - 56
Simple linear regression -I

Lesson - 57
Simple linear regression -II

Lesson -58
Assumption of

Assignment 12

The due date for submitting this assignment has passed. **Due on 2019-04-24, 23:59 IST**
As per our records you have not submitted this assignment.

1) What type of correlation should we expect from variables? 1 point
Ability of supervisors and output of their subordinates.

- a) Positive
- b) Negative
- c) Zero
- d) Can't predict

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Positive

2) What type of correlation should we expect from variables? 1 point
Age at first full-time job and number of years of education.

- a) Positive
- b) Negative
- c) Zero
- d) Can't predict

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Positive

3) What type of correlation should we expect from variables? 1 point
College grade-point average and student's height.

- a) Positive
- b) Negative
- c) Zero

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- Quiz : Assignment 12
- Solution week 12

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Interaction Session

- a) Total variation of the Y- variable
- b) The variation around the regression line
- c) The explained variation
- d) The variation of the X variable

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) The variation around the regression line

5) What information is contained in the co-efficient of determination?

1 point

- a) The co-efficient of correlation is larger than one
- b) Whether r has any significance
- c) We should not partition the total variation
- d) The proportion of the total variation in Y- that is explained by X

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) The proportion of the total variation in Y- that is explained by X

6) What do residuals represent?

1 point

- a) The difference between the actual Y-values and the mean of Y
- b) The difference between the actual Y-values and the predicted Y values
- c) The square root of the sloop
- d) The predicted value of Y for the average X value

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) The difference between the actual Y-values and the predicted Y values

7) What do residuals represent?

0 points

- a) The difference between the actual Y-values and the mean of Y
- b) The difference between the actual Y-values and the predicted Y values
- c) The square root of the sloop
- d) The predicted value of Y for the average X value

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) The difference between the actual Y-values and the predicted Y values

8) What do residuals represent?

0 points

- a) The difference between the actual Y-values and the mean of Y
- b) The difference between the actual Y-values and the predicted Y values
- c) The square root of the sloop
- d) The predicted value of Y for the average X value

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) The difference between the actual Y-values and the predicted Y values

9) What does the adjusted R-squared value describe: 1 point

- a) There is negative relationship
- b) There is positive relationship
- c) How much the variance in the dependence variable can be accounted by the independent variable
- d) None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) How much the variance in the dependence variable can be accounted by the independent variable

10) Campus Store has been selling the believe it or Not: Wonders of Statistics Study Guide for 12 semesters and would like to estimate the relationship between sales and number of sections of elementary statistics taught in each semester. Calculate the sample co-efficient of determination. The following data have been collected 0 points

Sales (units)	33	38	24	61	52	45	65	82	29	63	50	79
No. of section	3	7	6	6	10	12	12	13	12	13	14	15

- a) 0.9673
- b) 0.8355
- c) 0.2356
- d) 0.7111

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) 0.9673

11) What are the assumption of a regression line? 1 point

- a) Linearity
- b) Independence of error
- c) Normality of error
- d) All the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) All the above

12) What are the assumption of a regression line? 0 points

- a) Linearity
- b) Independence of error
- c) Normality of error
- d) All the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) All the above

