9!x3!x1!x0!

Question 1

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Taxable Income

Select one:
a. Qualitative
b. Quantitative

Question 2

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Office Address

Select one:
a. Quantitative
b. Qualitative

Question 3

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Employment Status

Select one:
- a. Quantitative
- b. Qualitative

Question 4

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Age

Select one:
- a. Qualitative
- b. Quantitative

Question 5

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Years of experience

Select one:
a. Quantitative

b. Qualitative

Question 6

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Occupation

Select one:
a. Qualitative

b. Quantitative

Question 7

Correct

Mark 1.00 out of 1.00
Flag question

Question text

Gross Sales per day

Select one:
a. Qualitative
b. Quantitative

Question 8

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Brand Name

Select one:
a. Quantitative
b. Qualitative

Question 9

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Average Monthly Expense

Select one:

a. Qualitative

b. Quantitative

Question 10

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Type of Business

Select one:

a. Qualitative

b. Quantitative

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

Question text

A researcher interviewed a respondent through telephone.

Select one:

a. Primary

b. Secondary

Question 2

Correct
Mark 1.00 out of 1.00

Flag question

Question text

John has taken research data from a guest book.

Select one:

a. Primary

b. Secondary

Question 3

Correct
Mark 1.00 out of 1.00

Flag question

Question text

The manager observed the customers' average queue time at the counter.

Select one:

a. Primary

b. Secondary

Question 4

Correct
Mark 1.00 out of 1.00

Flag question

Question text

A researcher obtained data from an article published in a Business Journal.

Select one:

a. Secondary

b. Primary

Question 5

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Mr P conducted a survey regarding the average annual income of people in their community. He distributed a questionnaire and gathered it after respondents filled it out.

Select one:

a. Secondary

b. Primary

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Which of the following statements best describes descriptive statistics

Select one:

A researcher made a survey study about the demand of a certain product. Later on, he concluded that the demand is inelastic.

The auditor performed a statistical sampling of material company transactions to test audit assertions. Later on, he inferred that the financial statements are fairly stated.

The financial manager took the total sales data of the company from January to December of 2016. After that, he computed for the average monthly sales.

The financial manager analyzed the sales from January to October, he then made a sales forecasts for the months of November and December.

Question 2

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Identify the area where statistics is being applied: Business entities usually use statistical modeling for predicting budgets and capital expenditures based on the past data of the entity and other relevant variables considered.

Select one:

Personnel Management

Financial Planning

Quality Control

Marketing

Question 3

Correct
Mark 1.00 out of 1.00

Flag question

Question text

It is the process of extracting relevant information from presented data using statistical methods and procedures
Select one:

a. Presentation

b. Analysis

c. Interpretation

d. Collection

Question 4

Correct
Mark 1.00 out of 1.00

Flag question

Question text

Which is not included in the group

Select one:

a. Suppression of unfavorable results

b. Defective or inaccurate data used

c. Arithmetical Mistakes

d. Adequate sample

Question 5

Correct
Mark 1.00 out of 1.00
Flag question

Question text

This exists to guide business decisions by providing insight about competitors, products and customers. this statement describes the use of statistics in the field of

Select one:

a. Financial Management

b. Marketing Research

c. Cost Management

d. Quality Control

Question 6

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Which statement is false?

Select one:

a. Statistics is a scientific body of knowledge that deals with the collection, organization, presentation, analysis and interpretation of data.

b. Karl Pearson is the one who developed the chi-square test. His son was Egon Pearson.

c. Fisher developed the Analysis of Variance.

d. John Graunt is a demographer who published the book “Natural and Political Observations made upon the Bills of Morality”.

Question 7

Correct
Mark 1.00 out of 1.00
Flag question

Question text

This is the science of good decision making in the face of uncertainty and is used in many disciplines such as financial analysis, econometrics, auditing, production and operations including services improvement, and marketing research.

Select one:

Business Statistics

Economic Statistics

Vital Statistics

Financial Statistics

Question 8

Correct

Mark 1.00 out of 1.00
Flag question

Question text

Identify the area where statistics is being described: Statistics is applied in performance appraisal of employees.

Select one:
- Marketing
- Financial Planning
- Quality Control
- Personnel Management

Question 9

Correct
Mark 1.00 out of 1.00
Flag question

Question text

Which statement is false?

Select one:
- a. Primary data can be obtained from sources such as personal interviews, questionnaires, books, observation and experimentation results

b. Dependent variable is a variable that is affected or influenced by another variable.

c. Categorical data may pertain to civil status, address and brand names.

d. A parameter is the numerical characteristic of the population

Question 10

Correct
Mark 1.00 out of 1.00
Flag question

Question text

This refers to the drawing of conclusion from the analyzed data
Select one:

a. Collection

b. Interpretation

c. Presentation

d. Analysis

There were 15000 products that were produced in a certain batch. You want to check the quality of the products so you will be obtaining samples to represent the population. How many samples will you get at 0.05 margin of error?

Answer: 390

The school canteen manager wants to obtain samples in his study on what type of food is best liked by students. The following are the enrollment data of the school.

Grade 1	163
Grade 2	144
Grade 3	155
Grade 4	142
Grade 5	150
Grade 6	125

Find the sample size at 0.10 margin of error.

Answer: 90

Question 1

Answer saved
Marked out of 1.00
Flag question

Question text

Census of population is an example of
Select one:

a. Registration Method

b. Experimental Method

c. Observation Method

d. Questionnaire Method

Question 2

Answer saved
Marked out of 1.00
Flag question

Question text

Which statement is false?

Select one:

a. A financial audit report is an example of textual method of presenting data.

b. Bar Graph is a graph that uses horizontal or vertical bars to represent data. Bars provide a visual display for comparing quantities in different categories or groups.

c. Line Graph can be used to display changes in sales from 2011-2016.

d. Tabulation can be classified as special. In this type classification,the data are classified according to place. This includes town, district, state and country.

Question 3

Answer saved
Marked out of 1.00
Flag question

Question text

Which method is the most time consuming?

Select one:

a. Questionnaire Method

b. Interview Method

c. Registration Method

Question 4

Answer saved
Marked out of 1.00
Flag question

Question text

Which statement is false?

Select one:

a. Lottery Method is a form of simple random sampling.

b. Quota sampling is similar to stratified random sampling. The only difference is that the selection of sample using quota sampling is not done randomly.

c. In Systematic Sampling, sample units are obtained by drawing every nth element of a series representing a population.

d. Stratified Random Sampling can be used when the members of the population belong to the same category, class or group.

Question 5

Answer saved
Marked out of 1.00

Flag question

Question text

Find the population used if sample size computed is 90 at 10% margin of error
Select one:

a. 900

b. 569

c. 999

d. none of the above

Question 6

Answer saved
Marked out of 1.00

Flag question

Question text

Compute for the sample size, given the following data: Population = 1000, margin of error 10%.
Select one:

a. 91

b. 199

c. 99

d. 100

Question 7

Answer saved
Marked out of 1.00
Flag question

Question text

If sample size is 5,000, when margin of error is 1%, what is the size of the population?

Select one:

a. 100,000

b. 10,000

c. 50,000

d. 500,000

Question 8

Answer saved
Marked out of 1.00
Flag question

Question text

Identify the technique in which a researcher studies the social process as they happen in the field.
Select one:

a. Observation Method

b. Questionnaire Method

c. Experimental Method

d. Registration Method

Question 9

Answer saved
Marked out of 1.00
Flag question

Question text

Identify a business-related activity which involves experimental method of data collection
Select one:

a. Test market

b. Market observation

c. Sales data collection

d. Interview of customers

Question 10

Answer saved
Marked out of 1.00
Flag question

Question text

Find the margin of error used if sample size computed is 50 at and population is 100.

Select one:

a. 0.1

b. 0.05

c. none of these

d. 0.01

Question **1**

Answer saved

Marked out of 1.00

Flag question

Question text

The main purpose of descriptive statistics is to:

Select one:

a. None of these

b. Summarize data in a useful and informative manner

c. Estimate a population characteristic based on a sample

d. Determine if the data adequately represents the population

Question **2**

Answer saved

Marked out of 1.00

Flag question

Question text

Identify the technique where samples are chosen only when the researcher meets them by chance

Select one:

a. Chansing Sampling

b. incidental sampling

c. accidental sampling

d. convenience sampling

Question **3**

Answer saved

Marked out of 1.00

Flag question

Question text

Using stratified random sampling, you need obtain 300 samples from a community consisting of 2,000 individuals belonging to different income brackets. 300 individuals belong to the high income earners; 1200 are average income earners; and 500 are low-income earners. How many samples will you obtain from the group of low-income earners?

Select one:

a. 75

b. 100

c. 180

d. 45

Question **4**

Answer saved

Marked out of 1.00

Flag question

Question text

Educationally speaking, Mr. P is a researcher who studies the economics of legal prostitution, He plans to conduct a survey study but because of the sensitive topic, he has no access and no idea regarding the population of study. He only know one respondent and that was Ms Cute, after the productive survey with her, Mr. P asked if she knows someone who is willing to cooperate with his research, Ms Cute then brings Mr. P to Miss Beautiful. After doing the same thing, Mr. P requested Ms Beautiful if she knows another respondent who is willing to cooperate, Ms Beautiful then brings him to Ms Chaka. What sampling method was used by Mr. P?

Select one:

a. snow-ball sampling

b. accidental sampling

c. random sampling

d. convenience sampling

Question **5**
Answer saved

Marked out of 1.00

Flag question

Question text

Which of the following is not included in the group

Select one:

a. cluster sampling

b. simple random sampling

c. multi-stage sampling

d. convenience sampling

Question **6**
Answer saved

Marked out of 1.00

Flag question

Question text

Identify the area where statistics is being described: Statistics is used in deciding whether to accept, reject or rework a certain product.

Select one:

a. Marketing

b. Financial Planning

c. Quality Control

d. Inventory Management

Question **7**
Answer saved

Marked out of 1.00

Flag question

Question text

Which of the following is not included in the group?

Select one:

a. graphical method

b. virtual method

c. tabular method

d. textual method

Question **8**
Answer saved

Marked out of 1.00

Flag question

Question text

Analyze the situation given and tell whether the situation will make use of Descriptive or Inferential Statistics: The cashier gathers the receipts and totals the income every day.

Select one:

a. Inferential Statistics

b. Descriptive Statistics

Question **9**
Answer saved

Marked out of 1.00

Flag question

Question text

Statement 1. Gosset formulated the t-test

Statement 2.Egon Pearson was the one who formulated the Pearson chi-square test

Select one:

a. Statement 1 is wrong and Statement 2 is correct

b. Both statements are wrong

c. Statement 1 is correct and Statement 2 is wrong

d. Both statements are correct

Question **10**

Answer saved

Marked out of 1.00

Flag question

Question text

This is a statistic expressing the amount of random sampling error in a survey's results

Select one:

a. margin of error

b. margin of sampling

c. margin of statistic

d. margin of confidence

Question **11**
Answer saved

Marked out of 1.00

Flag question

Question text

Mr. P, a researcher of the National Internal Revenue, was tasked to make a research regarding open tax cases of businesses from the 18 regions of the country. He selected 3 provinces on each region. After that, he selected 3 municipalities from each province. From each of the municipalities, he draws 10 registered businesses systematically from their list. What is the sampling method used by Mr. P?

Select one:

a. Multi-stage Sampling

b. Systematic Sampling

c. Cluster Sampling

d. Stratified Sampling

Question **12**
Answer saved

Marked out of 1.00

Flag question

Question text

Analyze the situation given and tell whether the situation will make use of Descriptive or Inferential Statistics: The manager computes the average income in a week.

Select one:

a. Inferential Statistics

b. Descriptive Statistics

Question **13**

Answer saved

Marked out of 1.00

Flag question

Question text

Identify the area where statistics is being described: Statistics provide useful information on how much goods should be kept and how much can be possibly sold at a certain period of time.

Select one:

a. Financial Planning

b. Quality Control

c. Inventory Management

d. Marketing

Question **14**
Answer saved

Marked out of 1.00

Flag question

Question text

A researcher was assigned to obtain respondents from a certain municipality, he was tasked to determine the reaction of residents' of a certain municipality regarding the proposed increase in monthly pension of retired people. He was told to have 200 female and 300 male respondents between the age of 45 and 60. What is the sampling method used by the researcher?

Select one:

a. Cluster sampling

b. multi-stage sampling

c. Stratified Sampling

d. Quota sampling

Question **15**
Answer saved

Marked out of 1.00

Flag question

Question text

Tell whether Descriptive or Inferential Statistics: The production manager tests if the products are okay by getting samples from the total products manufactured. Later on, he concluded that the products are not okay and needs d to be repaired.

Select one:

a. Inferential Statistics

b. Descriptive Statistics

Question **16**
Answer saved

Marked out of 1.00

Flag question

Question text

When you are dealing with a very large population such as the total residents of the Philippines, which sampling technique can be best used?

Select one:

a. Cluster Sampling

b. Stratified Sampling

c. Multi-stage Sampling

d. Snow-ball Sampling

Question **17**
Answer saved

Marked out of 1.00

Flag question

Question text

Which statement is false?

Select one:

a. Cluster Sampling- this can be used when the population is large.

b. Purposive Sampling is a process of picking out respondents in the most convenient and fastest way

c. Multi-Stage Sampling can be a combination of cluster sampling, stratified sampling and systematic random sampling.

d. In accidental sampling, samples chosen are only those whom the researcher meets by chance.

Question **18**
Answer saved

Marked out of 1.00

Flag question

Question text

Find the margin of error used if sample size computed is 90 at and population is 900.

Select one:

a. none of the above

b. 0.01

c. 0.1

d. 0.09

Question **19**

Answer saved

Marked out of 1.00

Flag question

Question text

Which of the following is not included in the group

Select one:

a. cluster sampling

b. Stratified sampling

c. snow-ball sampling

d. Systematic sampling

Question **20**
Answer saved

Marked out of 1.00

Flag question

Question text

Tell whether Descriptive or Inferential Statistics: The engineer calculates the average height of buildings in a city.

Select one:

a. Descriptive Statistics

b. Inferential Statistics

Question **1**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Seller, A, B and C had an income of Php 10,000, Php20,000 and Php15,000 respectively. Who has the median income?

Select one:

a. Seller B

b. Seller A

c. None of the above

d. Seller C

Question **2**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Supposing that you are in a game and you will choose one briefcase out of five. The following amounts are inside the briefcases 1,000,000; 500,000; 100,000; 50,000, 20,000. You will be going home with the amount inside your chosen briefcase. What is the probability that you will go home with 1,000,000?

Select one:

a. 0.25

b. 1

c. 0.2

d. 0.3

Question **3**

Correct

Mark 1.00 out of 1.00

Remove flag

Question text

Which statement is false

Select one:

a. A sample space is the set of all possible outcomes

b. Skewness describes asymmetry from the normal distribution in a set of statistical data.

c. A probability of 0 indicates that there is no chance that a particular event will occur, whereas a probability of 1 indicates that an event is certain to occur.

d. Measures of central tendency includes mean, median, mode and quantiles.

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

FPL Co. has a delivery vehicle. Suppose that one day, it traveled for 5 hours. Assuming that van had a constant speed of 20km/hr in the first two hours of travel and 24 km/hr in the next three hours. If the cost of fuel being used up is Php30 per kilometer. What is the mean or average fuel expense per hour?

Select one:

a. Php672/hr

b. Php660/hr

c. Php150/hr

d. Php264/hr

Question **5**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

You have two Php 20 bills and three Php 50 bills on your poket. If you will be drawing 2 bills in your pocket, what is the probability that you can get at a total of Php 20?

Select one:

a. 0.4

b. 0

c. 0.6

d. 1

Question **6**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

The current foreign exchange rate is USD 1 = Php 45. Assuming that the probability that the rate will be 1 USD = Php 40 is 0.7, and the probability that it will be USD 1= Php 46 is 0.2, the probability that it will remain the same is 0.1. What is the expected foreign exchange rate rate? (Average)

Select one:

a. 1 USD = Php43.67

b. 1 USD = Php41.7

c. 1 USD = Php40

d. 1 USD = Php43.2

Question **7**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Find the mode of the following data

40, 10, 80, 30, 40, 80, 60, 70, 10, 20, 30, 10, 60, 80, 10, 30, 10, 70, 20, 40, 70, 30, 60, 60, 70, 80, 30, 20, 20, 20, 70, 40, 40, 60, 70

Select one:

a. 50 and 60

b. 10

c. 60

d. 20

e. 50

f. 70

g. 40

Question **8**
Correct

Mark 1.00 out of 1.00

Remove flag

Question text

You have two Php 20 bills and three Php 50 bills on your poket. If you will be drawing 2 bills in your pocket, what is the probability that you can get at least Php 40?

Select one:

a. 0.6

b. 1

c. 0.2

d. 0.5

Question **9**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

The company has 3 delivery vans. In how many ways can the vans be parked in a row?

Select one:

a. 120

b. 6

c. 12

d. 3

Question **10**
Correct

Mark 1.00 out of 1.00

Remove flag

Question text

You are in a game and you will choose one briefcase out of five. The following amounts are inside the briefcases 1,000,000; 500,000; 100,000; 50,000, 20,000. You will be going home with the amount inside your chosen briefcase. What is the probability that you will go home with at least 50,000?

Select one:

a. 0.2

b. 0.6

c. 0.8

d. 0.4

Question **11**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

The following are the stock prices of FPL Co. from October 9-15

7.70, 7.75, 7.80, 7.60, 7.50, 7.75, 7.75

What is the average stock price within the given week?

Select one:

a. 7.69

b. 7.50

c. 7.97

d. 7.75

Question **12**
Incorrect

Mark 0.00 out of 1.00

Remove flag

Question text

Seller, A, B and C records their transaction under the accrual basis. They had a profit of Php 10,000, Php20,000 and Php15,000 respectively. Calculate the mean or average income of the 3 sellers after the following accounting adjustments.

Seller A received Php1,000 as payment for past recorded receivable

Seller B forgot to record electricity expense worth Php1,200

Seller C paid accrued expenses worth Php2,000

Select one:

a. Php14,600

b. Php13,933

c. Php15,000

d. Php 13,600

Question **13**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

There are 52 cards in an ordinary deck of cards. If you will be drawing one card. What is the probability that it is a heart or a spade?

Select one:

a. 0.25

b. 0.5

c. 0

d. 1

Question **14**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

In betting on the Supper Lotto of the Philippine Charity Sweepstakes, you will be choosing 6 numbers out of 49. How many possible 6-digit combinations will there be?

Select one:

a. 13,841,287

b. 22,882,608

c. 13,983,816

d. 10,068,347

Question **15**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Statement 1. Range is obtained by subtracting the highest to the lowest value

Statement 2. Variance is the square root of Standard Deviation

Select one:

a. Statement 2 is false; Statement 1 is true

b. Both statements are false

c. Both statements are true

d. Statement 1 is true; Statement 2 is false

Question **16**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

In an employment exam, 3 applicants got a score of 21-30 while 4 applicants got 31-40. Compute the mean of the grouped data.

Select one:

a. 31.21

b. 34.75

c. 27.42

d. 30.5

Question **17**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

You are in a game and you will choose one briefcase out of five. The following amounts are inside the briefcases 1,000,000; 500,000; 100,000; 50,000, 20,000. You will be going home with the amount inside your chosen briefcase. What is the probability that you will go home with 2,000,000?

Select one:

a. 0

b. 0.2

c. 0.25

d. 0.1

Question **18**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

A company has 3 subsidiaries. Subsidiary A has an income of 1M, Subsidiary B has 2M, Subsidiary C is unknown. What is the income of Subsidiary C if the 3 subsidiaries have average income of 4M?

Select one:

a. 7M

b. 12M

c. 5M

d. 9M

Question **19**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Supposing that a dean's list student must have an average grade of 85 in a term. If you took 5 subjects and you have already finished the 4 subjects with a grade of 80, 85, 83, and 80, what must be your grade in the last subject in order to qualify as dean's list student?

Select one:

a. 97

b. 93

c. 85

d. 95

Question **20**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

You have two Php 20 bills and three Php 50 bills on your poket. If you will be drawing 2 bills in your pocket, what is the probability that you can get at a total of Php 150?

Select one:

a. 0.4

b. 0.6

c. 1

d. 0

Question **1**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which statement is false?

Select one:

Binomial Distribution – Probability of exactly x successes in n trials

Negative Binomial Distribution– Probability that it will take exactly n trials to produce exactly x successes

Poisson Distribution – Probability of exactly x successes in a “unit” or discrete interval

Hypergeometric Distribution – Probability of exactly x successes in a sample of size n drawn without replacement

Question **2**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

In this type of distribution, the number of successes is fixed and the number of trials varies. The function calculates the probability of a given number of failures occurring, before a fixed number of successes.

Select one:

a. Hypergeometric Distribution

b. Poisson Distribution

c. Negative Binomial Distribution

d. Binomial Distribution

Question **3**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which statement is false?

Select one:

a. A random variable can be classified in two types.

b. In a discrete probability distribution, each possible value of the discrete random variable can be associated with a non-zero probability.

c. Continuous probability distribution is an infinite probability distribution used to find probability for a counatble of values.

d. An example of discrete probability distribution is binomial probability distribution

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which statement is true?

Select one:

Binomial Distribution – Probability of exactly x successes in n trials

Poisson Distribution – Probability of exactly x successes in a “unit” or discrete interval

Negative Binomial Distribution– Probability that it will take exactly n trials

Hypergeometric Distribution – Probability of exactly x successes in a sample of size n drawn with replacement

Question **5**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

What do you call a variable whose value is subject to variations due to chance. It can take on a set of possible different values, each with an associated probability.

Select one:

a. random variable

b. qualitative variable

c. quantitative variable

d. variance

Question **6**
Correct

Mark 1.00 out of 1.00

Remove flag

Question text

Analyze the excel sheet formula and identify which one does not belong to the group

Select one:

f(x)=EXPON.DIST(9,1/10,FALSE)

f(x)=HYPGEOM.DIST(3,4,6,9,FALSE)

f(x)=NEGBINOM.DIST(12,6,0.5,FALSE)

f(x)=BINOM.DIST(5,10,0.5,FALSE)

Question **7**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which statement is false?

Select one:

a. Discrete probability distribution is used to calculate probability for values between intervals.

b. In a discrete probability distribution, each possible value of the discrete random variable can be associated with a non-zero probability.

c. A random variable can be classified in two types.

d. Continuous probability distribution is an infinite probability distribution used to find probability for a continuous range of values.

Question **8**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

_____assigns a probability to each measurable subset of the possible outcomes of a random experiment, survey, or procedure of statistical inference.

Select one:

a. Random Probability Value

b. Probability of an Event

c. Quantitative Data

d. Probability Distribution

Question **9**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

This is a is a statistical measure that is frequently used to indicate the probability of a specific number of successes occurring from a specific number of independent trials.

Select one:

a. Hypergeometric Distribution

b. Negative Binomial Distribution

c. Poisson Distribution

d. Binomial Distribution

Question **10**

Correct

Mark 1.00 out of 1.00

Remove flag

Question text

Analyze the excel sheet formula and identify which that does not belong to the group

Select one:

f(x)=NEGBINOM.DIST(12,6,0.5,FALSE)

f(x)=NORM.DIST(183,175,E9,FALSE)

f(x)=BINOM.DIST(5,10,0.5,FALSE)

f(x)=EXPON.DIST(9,1/10,FALSE)

Question **1**

Correct

Mark 0.00 out of 1.00

Flag question

Question text

If the probability that $x \leq 20$ is 65% and the probability that $x<20$ is 20%, what is the probability that $x \neq 20$?

Select one:

a. 35%

b. 55%

c. 85%

d. 45%

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.00/1.00**.

Question **2**
Correct

Mark 0.00 out of 1.00

Flag question

Question text

This is the probability distribution that describes the time between events.

Select one:

a. Poisson Distribution

b. Negative Binomial Distribution

c. Normal Distriburion

d. Exponential Distribution

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.00/1.00**.

Question **3**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

In a normal distribution,

Select one:

a. the random variable x is in a possitively skewed distribution

b. the random variable x is normally dispersed with the mean and variance

c. the random variable x follows an exponential pattern

d. the random variable x follows an normal pattern

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **4**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Analyze the excel sheet formula and identify which that does not belong to the group

Select one:

a. f(x)=NEGBINOM.DIST(12,6,0.5,FALSE)

b. f(x)=NORM.DIST(183,175,9,11,FALSE)

c. f(x)=EXPON.DIST(9,1/10,FALSE)

d. f(x)=BINOM.DIST(5,10,0.5,FALSE)

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 0.67 out of 1.00

Flag question

Question text

The average number of homes sold by the a realty company is 2 homes per day. What is the probability that greater than 3 homes will be sold tomorrow?

Select one:

a. 0.80

b. 0.14

c. 0.28

d. 0.86

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **6**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Euler's number is equal to

Select one:

a. 2.6803

b. 2.8128

c. 2.71828

d. 2.3126

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **7**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

With a 0.5 probability of success in each of your 5 business investments, what is the probability that you will make profit in exactly 2 of your investments?

Select one:

a. 31.25%

b. 41.5%

c. 20.69%

d. 25.5%

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **8**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

If the probability that x = 6 is 25%, what is the probability that x will not be equal to 6?

Select one:

a. 65%

b. 55%

c. 25%

d. 75%

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **9**

Correct

Mark 0.33 out of 1.00

Flag question

Question text

Analyze the statement and identify the one depicting two tailed test

Select one:

a. What is the probability of getting a score of less than 50?

b. What is the probability of getting a score equal to 50?

c. What is the probability of getting a score of at most 50?

d. What is the probability of getting a score of greater than or equal to 50?

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.33/1.00**.

Question **10**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This test is applied when you have one categorical variable from a single population. It is used to determine whether sample data are consistent with a hypothesized distribution.

Select one:

a. T-test

b. Chi-square Test for Independence

c. z-test

d. Chi-square Test for Goodness of Fit

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **11**

Correct

Mark 0.00 out of 1.00

Flag question

Question text

Analyze the statement and identify the one depicting two tailed test

Select one:

a. the probability of getting 10 and above

b. The probability of getting 10 and below.

c. The probability of getting 10

d. The probability of getting above 10.

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.00/1.00**.

Question **12**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

This is prefered to be used when handling samples which are greater than or equal to 30.

Select one:

a. t-test for unequal variances

b. z-test

c. t-test for paired distribution

d. t-test for equal variances

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **13**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Evaluate the formula and identify the correct expression

Select one:

a. f(x)=HYPGEOM.DIST(3,4,6,9,FALSE)=0.45

b. f(x)=HYPGEOM.DIST(3,4,6,9,FALSE)= 0.48

c. f(x)=HYPGEOM.DIST(3,4,6,9,FALSE)= 0.42

d. f(x)=HYPGEOM.DIST(3,4,6,9,FALSE)= 0.38

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **14**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

It is a theoretical concept whose objective is to be able to explain for some variables the reaction between the intervals of its values and their corresponding probabilities.

Select one:

a. Normal Distriburion

b. Exponential Distribution

c. Negative Binomial Distribution

d. Poisson Distribution

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **15**

Correct

Mark 0.67 out of 1.00

Flag question

Question text

If the probability that x ≥ 10 is 65% and the probability that x=10 is 20%, what is the probability that x≠10?

Select one:

a. 80%

b. 75%

c. 55%

d. 25%

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **16**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Identify the probability distribution being described by the statement below

What is the probability of having exactly 7 tails before 8 heads?

Select one:

a. negative binomial distribution

b. binomial distribution

c. poisson distribution

d. hypergeometric distribution

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **17**
Correct

Mark 0.67 out of 1.00

Flag question

Question text

The test is applied when you have two categorical variables from a single population. It is used to determine whether there is a significant association between the two variables.

Select one:

a. Chi-square Test for Independence

b. Chi-square Test for Goodness of Fit

c. z-test

d. T-test

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **18**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

This examines whether samples are different and is commonly used when the variances of normal distributions are unknown and when an experiment uses a small sample size.

Select one:

a. z-test

b. Chi-square Test for Goodness of Fit

c. T-test

d. Chi-square Test for Independence

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **19**
Correct

Mark 0.00 out of 1.00

Remove flag

Question text

Which of the following is a continuous random variable?

Select one:

a. Number of employees

b. Number of customers

c. none of these

d. Number of equipment bought

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.00/1.00**.

Question **20**

Correct

Mark 1.00 out of 1.00

Remove flag

Question text

If the probability that $x \geq 6$ is 10%. What is the probability that $x<6$?

Select one:

a. 90%

b. 9%

c. 10%

d. 1%

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **1**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Identify the what statistical tool can be used in the problem

A manufacturing company has 20 employees and it wants to compare the productivity of three or more employees based on working hour.

Select one:

a. Two-way Analysis of Variance without replication

b. One-way Analysis of Variance

c. Two-way Analysis of Variance with replication

Question **2**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Identify what statistical tool can be used in the problem

FPL Co. developed a new commercial fertilizer to increase the crop yields. The company has three formula blends and they want to further understand the effectiveness of fertilizer blends for wheat, corn, soy beans and rice. They test each of the three blends on one sample of each of the four types of crops.

Select one:

a. Two-way Analysis of Variance without Replication

b. Two-way Analysis of Variance with Replication

c. One-way Analysis of Variance

Question **3**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Identify what statistical tool can be used in the problem

FPL Co. developed a new commercial fertilizer to increase the crop yields. The company has three formula blends and they want to further understand the effectiveness of fertilizer blends for wheat, corn, soy beans and rice. They test each of the three blends on ten samples of each of the four types of crops.

Select one:

a. One-way Analysis of Variance

b. Two-way Analysis of Variance without Replication

c. Two-way Analysis of Variance with Replication

Question **4**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Identify what statistical tool can be used in the problem

The new-product development team for an automotive headlamp firm has four different headlamp designs under consideration. A test is set up to compare their effectiveness in night-driving conditions, and the measurement of interest is the distance at which a suburban traffic sign can be read by the driver. Recognizing that younger drivers tend to have better night vision than older drivers, the team has planned the experiment so that age group will be a blocking variable. Four persons from each age group (or block) are selected, then the treatments are randomly assigned to members from each block. When each person is subjected to one of the headlamp designs, the distance at which the traffic sign can be read is measured.

Select one:

a. Two-way Analysis of Variance without Replication

b. Two-way Analysis of Variance with Replication

c. One-way Analysis of Variance

Question **5**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

Identify what statistical tool can be used in the problem

An aircraft firm is considering three different alloys for use in the wing construction of a new airplane. Each alloy can be produced in four different thicknesses (1 _ thinnest, 4 _ thickest). Two test samples are constructed for each combination of alloy type and thickness, then each of the 24 test samples is subjected to a laboratory device that severely flexes it until failure occurs. For each test sample, the number of flexes before failure is recorded

Select one:

a. Two-way Analysis of Variance with Replication

b. One-way Analysis of Variance

c. Two-way Analysis of Variance without Replication

Question **1**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

This is a method that simultaneously examines the effect of two factors on the dependent variable, along with the effects of interactions between the different levels of these two factors.

Select one:

a. 2-way ANOVA without Replication

b. one-way ANOVA

c. ANCOVA

d. 2-way ANOVA with replication

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **2**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

A new fertilizer has been developed to increase the yield on crops, and the makers of the fertilizer want to better understand which of the three formulations (blends) of this fertilizer are most effective for wheat, corn, soy beans and rice (crops). They test each of the three blends on one sample of each of the four types of crops. What statistical method can be best used in the situation?

Select one:

a. One-way ANOVA

b. Two-way ANOVA with replication

c. All of these

d. Two-way ANOVA without replication

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **3**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

A researcher was interested in whether an individual's interest in politics was influenced by their level of education and gender. Therefore, the dependent variable was "interest in politics", and the two independent variables were "gender" and "level of education". In particular, the researcher wanted to know whether there was an interaction between education level and gender. What statistical method can be best used?

Select one:

a. none of these

b. Two-way ANOVA with replication

c. One-way ANOVA

d. Two-way ANOVA without replication

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This examines two or more independent samples based on an individual characteristic to determine whether their population means could be equal by comparing their variability between groups and within groups.

Select one:

a. 2-way ANOVA

b. one-way ANOVA

c. 2-way ANOVA without Replication

d. ANCOVA

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **5**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

This examines two or more independent samples based on multiple characteristics. In this method, the data must be balanced and factors must be fixed.

Select one:

a. one-way ANOVA

b. T-test

c. Z-test

d. 2-way ANOVA

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **6**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This used to test the significance of the difference between means of two or more sets of data simultaneously.

Select one:

a. correlation

b. ANOVA

c. Z-test

d. T-test

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **7**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Three different sale closing methods were used. Three groups of four salespeople were randomly chosen. Each group was instructed to use only one of the closing methods for all of their sales. Sales totals of each salesperson over the next two weeks were collected. What statistical method can be best used in the situation?

Select one:

a. Two-way ANOVA without replication

b. Two-way ANOVA with replication

c. One-way ANOVA

d. All of these

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **8**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which statement is false

Select one:

a. In two-way ANOVA, the data must be balanced and factors must be fixed.

b. Two-way ANOVA is the most basic form of the factorial experiment, one in which there are two or more factors and the treatments represent all possible combinations of their levels.

c. ANOVA is a method of multiplying the variation observed in experimental data into different parts, each part assignable to a known source, cause or factor.

d. The one-way ANOVA examines two or more independent samples based on one characteristic.

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **9**
Correct

Mark 0.67 out of 1.00

Flag question

Question text

A new fertilizer has been developed to increase the yield on crops, and the makers of the fertilizer want to better understand which of the three formulations (blends) of this fertilizer are most effective for wheat, corn, soy beans and rice (crops). They test each of the three blends on one sample of each of the four types of crops. After that, they repeated the experiment for 5 times in order to ensure that the results are consistent. What statistical method can be best used in the situation?

Select one:

a. Two-way ANOVA without replication

b. Two-way ANOVA with replication

c. one-way ANOVA

d. ANCOVA

Check

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **10**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

In a study, subjects are randomly assigned to one of three groups: control, experimental A, or experimental B. After treatment, the mean scores for the three groups are compared. The appropriate statistical test for comparing these means is:

Select one:

a. Correlation

b. ANOVA

c. Z-test

d. T-test

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

The following are data regarding the years of experience (x) and monthly salary of drivers (y).

x	y
2	3400
3	4500
6	5600
7	6700
8	7900
9	9900
10	12300

Find the equation of the line or the general regression equation.

Notes in inputting answer:

-use small caps

-round off numbers to the nearest whole number

-do not add spaces between numbers and symbols

use the format

y=bx+a

or

y=a+bx

Examples

y=2+25x

y=25x+2

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

All data points falling along a straight line is called:

Select one:

a. residual

b. Non-linear relationship

c. Linear relationship

d. scatter diagram

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **2**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

If the correlation coefficient is a positive value, then the slope of the regression line

Select one:

a. must also be positive

b. cannot be zero

c. can be zero

d. can be either negative or positive

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The correlation coefficient is used to determine:

Select one:

a. The strength of the relationship between the x and y variables

b. A specific value of the y-variable given a specific value of the x-variable

c. none of these

d. A specific value of the x-variable given a specific value of the y-variable

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In regression, the equation that describes how the response variable (y) is related to the explanatory variable (x) is:

Select one:

a. none of these

b. The correlation model

c. used to compute the correlation coefficient

d. The regression model

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **5**
Correct

Mark 0.33 out of 1.00

Flag question

Question text

Regression modeling is a statistical framework for developing a mathematical equation that describes how

Select one:

a. All of these are correct

b. one explanatory and one or more response variables are related

c. several explanatory and several response variables response are related

d. one response and one or more explanatory variables are related

Check

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.33/1.00**.

Question **6**
Correct

Mark 0.67 out of 1.00

Flag question

Question text

In the regression equation Y = a+bX, the Y is called:

Select one:

a. Qualitative variable

b. Continuous variable

c. Independent variable

d. Dependent variable

Check

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **7**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

The graph showing the paired points of (X,Y) is called

Select one:

a. Histogram

b. Scatter diagram

c. Pie chart

d. Bar graph

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **8**
Correct

Mark 1.00 out of 1.00

Flag question

Question text

A process by which we estimate the value of dependent variable on the basis of one or more independent variables is called:

Select one:

a. Regression

b. finding the value of X

c. correlation

d. Slope

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **9**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In regression analysis, the variable that is being predicted is the

Select one:

a. independent variable

b. is usually x

c. response, or dependent variable

d. intervening variable

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **10**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In the case of an algebraic model for a straight line, if a value for the x variable is specified, then

Select one:

a. none of these alternatives is correct.

b. the computed response to the independent value will always give a minimal residual

c. the computed value of y will always be the best estimate of the mean response

d. the exact value of the response variable can be computed

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following data. X (1,2,3,4,5) with respect to Y (40, 50, 60, 70, 80). What is the regression equation?

Select one:

Y= 20X + 50

Y=40 + 20X

Y=50 + 5X

Y=30 + 10X

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct
Mark 1.00 out of 1.00
Flag question

Question text

In a study, subjects are randomly assigned to one of three groups: control, experimental A, or experimental B. After treatment, the mean scores for the three groups are compared. The appropriate statistical test for comparing these means is:

Select one:

a. Correlation

b. Z-test

c. ANOVA

d. T-test

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Supposing we have a regression equation of Y= 15 + 20(X). What is the value of Y if X is equal to 50?

Select one:

2500

1200

1015

340

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 0.00 out of 1.00

Flag question

Question text

Two variables, gender and ethnicity, are most likely

Select one:

dependent

independent

codependent

undefined

Check

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.00/1.00**.

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

A process by which we estimate the value of dependent variable on the basis of one or more independent variables is called:

Select one:

a. Regression

b. finding the value of X

c. Slope

d. correlation

Check

Feedback

Correct
Marks for this submission: 1.00/1.00.

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

If both the series move in the same direction and the variations are in a fixed proportion, correlation between them is said to be

Select one:

Non-linear correlation

Linear correlation

Perfect correlation

Perfect positive correlation

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **7**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In the case of an algebraic model for a straight line, if a value for the x variable is specified, then

Select one:

a. none of these alternatives is correct.

b. the computed value of y will always be the best estimate of the mean response

c. the exact value of the response variable can be computed

d. the computed response to the independent value will always give a minimal residual

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **8**

Correct
Mark 1.00 out of 1.00
Flag question

Question text

In regression, the equation that describes how the response variable (y) is related to the explanatory variable (x) is:

Select one:

a. used to compute the correlation coefficient

b. The regression model

c. The correlation model

d. none of these

Check

Feedback

Correct
Marks for this submission: 1.00/1.00.

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

Which statement is false

Select one:

a. In two-way ANOVA, the data must be balanced and factors must be fixed.

b. Two-way ANOVA is the most basic form of the factorial experiment, one in which there are two or more factors and the treatments represent all possible combinations of their levels.

c. ANOVA is a method of multiplying the variation observed in experimental data into different parts, each part assignable to a known source, cause or factor.

d. The one-way ANOVA examines two or more independent samples based on one characteristic.

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **10**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This examines two or more independent samples based on an individual characteristic to determine whether their population means could be equal by comparing their variability between groups and within groups.

Select one:

a. ANCOVA

b. one-way ANOVA

c. 2-way ANOVA without Replication

d. 2-way ANOVA

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

This used to test the significance of the difference between means of two or more sets of data simultaneously.

Select one:

a. correlation

b. T-test

c. Z-test

d. ANOVA

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

In an ANOVA result, if p value is equal to 0.54 and α is equal to 0.10. We must

Select one:

- Accept Null Hypothesis
- Accept Alternative hypothesis
- Reject Null Hypothesis
- Do not accept nor reject any hypothesis

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **13**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following indicates ANOVA

Select one:

- H0: μ1 = μ2= μ3= μ4
- H0: μ1= μ2
- H0: μ1 > μ2
- H0: μ1 ≥ μ2

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **14**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

Consider the following data. X (1,2,4,7,8) with respect to Y (10, 30, 50, 80, 100). What is the regression equation?

Select one:

- y = 11.882x + 1.7204
- y = 3.9462 + 19.785x
- y = 14.778x + 5.9448
- y = 10.785x + 4.9462

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **15**
Correct
Mark 0.33 out of 1.00
Flag question

Question text

In the regression equation Y = a + bX, b is called:

Select one:

slope

intercept

none of these

bold variable

Check

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.33/1.00**.

Question **16**

Correct

Mark 0.67 out of 1.00

Flag question

Question text

Supposing we have a regression equation of Y= 15 + 20(X). What is the value of X if Y is equal to 50?

Select one:

85

15000

1015

1.75

Check

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **17**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

In regression analysis, the variable that is being predicted is the

Select one:

a. independent variable

b. intervening variable

c. response, or dependent variable

d. is usually x

Check

Feedback

Correct
Marks for this submission: 1.00/1.00.

Question **18**
Correct
Mark 0.67 out of 1.00
Flag question

Question text

Analysis of variance is a statistical method of comparing the _____ of several populations.

Select one:

value

means

standard deviation

variance

Check

Feedback

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **19**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If both variables X and Y increase or decrease simultaneously, then the coefficient of correlation will be:

Select one:

Zero

Negative

Positive

One

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.

Question **20**
Correct
Mark 1.00 out of 1.00
Flag question

Question text

Consider the following data. X (1,2,3,4,5) with respect to Y (50, 100, 150, 200, 250). What is the regression equation?

Select one:

- Y= 50x
- Y=40 + 20X
- Y=50 + 15X
- Y=50X + 10

Check

Feedback

Correct

Marks for this submission: 1.00/1.00.