

Let X be the number of passengers in a particular vehicle and it's probability distribution. Find the probability of having at least two passengers in a given vehicle ?

X	0	1	2	3	4
$P(X=x)$	0.2	0.1	a	0.3	0.1

1
.

Select one:

- 0.5
- 0.7
- 0.6
- 0.2
- 0.4

$$a = 1 - (0.1 + 0.2 + 0.3 + 0.1)$$
$$a = 0.3$$

$$\text{ans} = 0.1 + 0.3 + 0.3$$
$$= 0.7$$



Online Exams

Sri Lanka Institute of Information Technology

Patients arrive at a hospital accident and emergency department at a random rate of 6 per hour.

Find the probability that during 90 minutes period the number of patients arriving at the hospital accident and emergency department is .

$$1.5 \text{ hour} * 6 = 9$$

λn

poisson

At least 10

Choose...

Choose...

0.08392

0.41259

0.55029

0.39370

0.11712

0.13768

static table

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 15

Not yet answered
Marked out of
1.00

Flag question

Patients arrive at a hospital accident and emergency department at a random rate of 6 per hour.

Find the probability that during 90 minutes period the number of patient arriving at the hospital accident and emergency department is .

At least 10

0.41259

Exactly 7 ?

Choose...

Choose...

0.08392

0.41259

0.55029

0.39370

0.11712

0.13768

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 16

Not yet answered

Marked out of
1.00

Flag question

Following is **not** an example for a survey error.

Select one:

- Sampling error
- Measurement error
- Selection bias
- Non-response bias
- None of the above



Online Exams

Sri Lanka Institute of Information Technology

17

Unanswered
Time left

Question

What is the probability that the sum of two die will be greater than 8, given that the first die is 6?

Select one:

- 1/2
- 3/4
- 2/3
- 7/12
- None of the above

Sri Lanka Institute of Information Technology

The below transformation is applied to a data set.

$Y = 2X + 3$, where X is the old data and Y is the new data.

If the variance of the first data set is 7 then what is the variance of the new data set.

Select one:

- 24
- 28
- 14
- 7
- None of the above

Online Exams

Sri Lanka Institute of Information Technology

In an experiment of rolling two dice, the first die shows a ONE and the other die rolls under the table and you cannot see it. Now, what is the probability that both die show ONE?

Select one:

- 1/3
- 1/6
- 1/36
- 9/36
- None of the above

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 1

Not yet answered

Marked out of
1.00

Flag question

Which of the following is **not** a form of non-probability sampling?

Select one:

- Quota sampling.
- Convenience sampling.
- Cluster sampling.
- Purposive/Judgement sampling.
- They are all forms of non-probability sampling.



Online Exams

Sri Lanka Institute of Information Technology

An example for a nominal categorical variable is,

NOminal kiynne category ekaka
ex= gender , hair colour

Select one:

- Importance of culture to respondent (very, somewhat, or not very important)
- Opinion about a new political law (favor or oppose)
- Length of forearm from elbow to wrist (in centimeters)
- Number of songs on a digital music player
- None of the above



Online Exams

Sri Lanka Institute of Information Technology

Question 3

Not yet answered

Marked out of
1.00

Flag question

An example for a probability sampling method is,

Select one:

- Quota sampling method
- Convenience sampling method
- Stratified random sampling method
- Volunteer sampling method
- None of the above

random nisa waradi



Online Exams

Sri Lanka Institute of Information Technology

Find mean and standard deviation of the following data set.

13.5, 12.6, 14.6, 19.2, 11.6, 24.3, 17.7

Mean

Choose... ▾

16.2142

Standard deviation

Choose... ▾

4.4875



Online Exam

Sri Lanka Institute of Information Technology

Question 5
Not yet answered
Marked out of 1.00

Flag question

In a Car Sale an average of 3 out of every 5 customers would make a business. A random sample of 10 were selected. Find the probability that at least 9 people would make a business.

Select one:

- 0.2546
- 0.0146
- 0.0245
- 0.2145
- 0.0464





Online Exams

Sri Lanka Institute of Information Technology

Question 5

Not yet answered

Marked out of
1.00

View question

In a Car Sale an average of 3 out of every 5 customers would make a business. A random sample of 10 were selected.

Find the probability that at least 9 people would make a business.

Select one:

- 0.2546
- 0.0146
- 0.0245
- 0.2145
- 0.0464



Next page

Quiz

1	2
3	4
5	6

Final attempt

Time left 0:41



Online Exams

Sri Lanka Institute of Information Technology

In a classroom, 30% of students are doing Mathematics while 60% are doing Statistics. 10% are doing both of these subjects. What percentage is doing none of these subjects?

Select one:

- 0.6
- 0.3
- 0.5
- 0.2
- 0.1

Next page



Online Exams

Sri Lanka Institute of Information Technology

The collection and summarization of the socioeconomic and physical characteristics of the employees of a particular firm is an example of

Select one:

- Inferential statistics.
- Descriptive statistics.
- A parameter.
- A statistic.
- None of the above.

Next page

Online Exams

Sri Lanka Institute of Information Technology

Suppose that in a national survey of 500 randomly selected adults, each person is asked how important religion is to him or her (very, fairly, not very), and whether the person favors or opposes stricter regulation of what can be broadcast on network television.

How many variables are there?

Choose... 
Choose...

What is the sample size?

- 550
- 500
- Not given
- 600
- 3
- 4
- 2

thibboth 1 or not given

500

Next page



Select the **incorrect** statement?

Select one:

- Histogram can be used to describe numerical variables
 - Pie chart can be used to describe one categorical variable
 - Two way table can be used to describe two categorical variables
 - Boxplot can be used to describe only one categorical variable
 - Stem and leaf plot can be used to describe numerical variables.
- numerical

Online Exams

Sri Lanka Institute of Information Technology

 Consider a computer system with Poisson job-arrival stream at an average of 2 per minute. Determine the probability that in any one-minute interval there will be 0 job arrivals.

Select one:

- 0.28811
- 0.41136
- 0.17492
- 0.03655
- 0.13534

[Next page](#)

Online Exams

Sri Lanka Institute of Information Technology

The probability of a machine producing a defective part is 0.04. Consider a sample of 100 parts.

What is the rate of the occurrence in this distribution?

4

What is the probability of having exactly 5 defective parts? (Round your answer upto 5 decimal places)

What is the variance of this distribution?

Choose...

4.32
0.15926
3.84
0.15629
4
0.37116

Next page

Online Exams

Sri Lanka Institute of Information Technology

The probability of a machine producing a defective part is 0.04. Consider a sample of 100 parts.

What is the rate of the occurrence in this distribution?

3.84

What is the probability of having exactly 5 defective parts? (Round your answer upto 5 decimal places)

What is the variance of this distribution?

Choose...

4.32

0.15926

3.84

0.15629

4

0.37116

1 page

Online Exams

Sri Lanka Institute of Information Technology

The probability of a machine producing a defective part is 0.04. Consider a sample of 100 parts.

What is the rate of the occurrence in this distribution?

3.84

What is the probability of having exactly 5 defective parts? (Round your answer upto 5 decimal places)

0.37116

What is the variance of this distribution?

Choose...

Choose...

4.32

0.15926

3.84

0.15629

4

0.37116

Next page

Time

Online Exams

Sri Lanka Institute of Information Technology

In a district, the probability of having a power cut in a house will be 0.003. There are 1000 houses in this district.

What is the rate of the occurrence in this distribution?

What is the variance of this distribution?

What is the probability that 10 houses having the power cut? (Give your answer upto 5 decimal places)

Choose... ▾

- Choose...
- 4
- 0.00081
- 3
- 0.00018
- 0.00110
- 2.991

Next page

≡ Quiz r

1	2
8	9
15	16

Finish attempt

Time left: 0:27



Online Exams

Sri Lanka Institute of Information Technology

12

Answered

Next

Previous

In a district, the probability of having a power cut in a house will be 0.003. There are 1000 houses in this district.

What is the rate of the occurrence in this distribution?

What is the variance of this distribution?

What is the probability that 10 houses having the power cut? (Give your answer upto 5 decimal places)

3

Choose...
Choose...
4
0.00081
3
0.00018
0.00110
2.991

Next page



Online Exams

Sri Lanka Institute of Information Technology

12

In a district, the probability of having a power cut in a house will be 0.003. There are 1000 houses in this district.

What is the rate of the occurrence in this distribution?

What is the variance of this distribution?

What is the probability that 10 houses having the power cut? (Give your answer upto 5 decimal places)

3

2.991

Choose...

Choose...

4

0.00081

3

0.00018

0.00110

2.991

Quiz navigation

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Finish attempt

Time left 0:25:27



Online Exams

Sri Lanka Institute of Information Technology

Question 13

You answered

Mark out of

Flag question

The mean and the median of the set given below

11, 26, 43, 15, 60, 18, 25

11,15,18,25,26,43,60

Select one:

- Mean = 28.29 and Median = 25
- Mean = 25 and Median = 28.5
- Mean = 27.29 and Median = 26.5
- Mean = 28.5 and Median = 27
- None of the above

A measurement scale which includes true zero point is,

Select one:

- Nominal Scale
- Ordinal Scale
- Interval Scale
- Ratio Scale
- None of the above

lec 1





Sri Lanka Institute of Information Technology

Find mean and P_{18} (Using nearest rank method / round off the position of P_{18} upto nearest integer) for the following data set. (Don't use linear interpolation method to find P_{18})
7.8, 9.9, 10.2, 11.4, 13.6, 18.9, 20.3

Question

Mean

Choose... *

13.157142

P_{18}

Choose... *

1.44

$$pk = (n+1)/100 * k$$

Next page

Time

15



Question 18

Not yet answered

Marked out of
1.00

Flag question

X	-1	0	1	2
P(X=x)	0.3	0.2	a	0.3

Find $P(0 \leq X \leq 2)$?

Select one:

- 0.7
- 0.9
- 0.8
- 0.3
- 0.6



Next page

≡ Quiz navigation

1	2	3	4
8	9	10	11
15	16	17	18

Finish attempt ...

Time left 0:01:33



Online Exams

Sri Lanka Institute of Information Technology

Question 11

Not yet answered
Marked out of
1.00
1st Previous

What is the probability that the sum of two die will be greater than 5, given that the first die is 6?

Select one:

1/2

3/4

2/3

1/12

None of the above

Next Ques



Online Exams

Sri Lanka Institute of Information Technology

In a district, the probability of having a power cut in a house will be 0.0015. There are 3000 houses in this district.

What is the variance of this distribution?

Choose... ▾

What is the rate of the occurrence in this distribution?

Choose... ▾

What is the probability that at most 12 houses having the power cut? (Give your answer upto 5 decimal places)

Choose... ▾



Next page

≡ Quiz

1 2
8 9
15 16

Finish attempt

Time left 0:5

0 Close

Degrees Radians Gradians

MC	MR	MS	M+	M-	Copy		
Inv	In	()	←	CE	C	+/-	√



Question 1

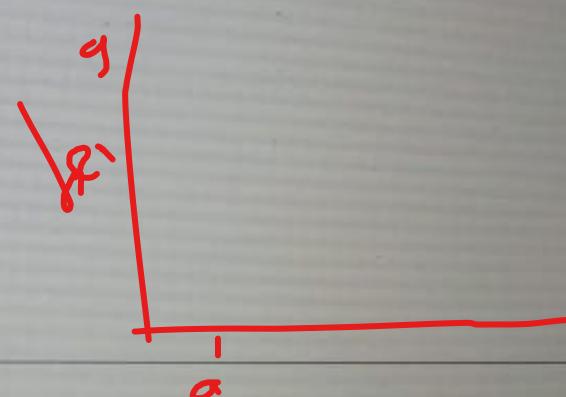
yet answered
Marked out of

Flag question

In a class room, there are 50 students. You are asked to analyze the relationship between Age and Height of students. What is the **suitable graphical tool** which can be used to describe these two variables together?

Select one:

- Pie Chart
- Scatter Plot
- Bar Chart
- Clustered Bar Chart
- Histogram



≡ Quiz navigation

1	2	3
8	9	10
15	16	17

Finish attempt ...

Time left 0:59:40

[Next page](#)



When selecting individuals for the sample, some individuals in the population have no chance of being selected to the sample (Or some individuals are excluded from the sampling frame). This survey error is known as,

Select one:

- Sampling error
- Measurement error
- Coverage error
- Non-response bias
- None of the above

≡ Quiz

1 2
8 9
15 16

Finish atte

Time left 0

Next page

Following is **not** an example for a survey error.

Select one:

- Sampling error
- Measurement error
- Selection bias
- Non-response bias 
- None of the above



Online Exams

Sri Lanka Institute of Information Technology

In a district, the probability of having a power cut in a house will be 0.0015. There are 3000 houses in this district.

What is the variance of this distribution?

What is the rate of the occurrence in this distribution?

What is the probability that at most 12 houses having the power cut? (Give your answer upto 5 decimal places)

4.5 ▾

Choose... ▾

Choose... ▾

0.89919

4.5

4.49325

0.00240

4

0.99919

Page

0

Close

Radios Students

MC MR MS M+ M- Copy

≡ Qui

1

8

15

1

Finish at

Time left



Online Exams

Sri Lanka Institute of Information Technology

Question 2

Not yet answered

Marked out of
1.00

Flag question

To assess passenger satisfaction, an airline distributed questionnaires to 50 passengers in the airline's frequent flyer lounge. All 50 individuals responded, and 40 respondents said that they had a high degree of satisfaction with the airline.

Select one:

- Simple random sampling
- Quota sampling
- Haphazard sampling
- Cluster sampling
- Convenience sampling



Next

X	2	3	4	5
P(X=x)	0.2	0.3	a	0.3

Find $E(2X+5)$

Select one:

- 15.2
- 11.2
- 12.2
- 12.5
- 10.5



A man sells electronic devices in his shop at an average rate of **2 per day**. What is the probability that the man sells at least 3 "electronic devices" in a **week (7days)** ?

Select one:

- 0.99991
- 0.65412
- 0.85456
- 0.21454
- 0.75442

$$\lambda = 2 \times 7$$
$$\lambda = 7$$

$$7 * 2 = 14$$



Online Exams

Sri Lanka Institute of Information Technology

Patients arrive at a hospital accident and emergency department at a random rate of 6 per hour.

Find the probability that during 90 minutes period the number of patients arriving at the hospital accident and emergency department is .

At least 10

Choose...

Exactly 7

Choose...

0.13768

0.55029

0.08392

0.41259

0.11712

0.39370

7 -

0

Close

Next



Online Exams

Sri Lanka Institute of Information Technology

Question 3

Not yet answered

Marked out of
3.00

Flag question

The probability of a machine producing a defective part is 0.04. Consider a sample of 100 parts.

Choose... ▾

What is the rate of the occurrence in this distribution?

Choose... ▾

What is the probability of having exactly 5 defective parts? (Round your answer upto 5 decimal places)

Choose... ▾

What is the variance of this distribution?



Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 1

Not yet answered

Marked out of
1.00

Flag question

Find the probability of a 5 turning uppermost at least once in two tosses of a fair die.

Select one:

- 11/36
- 12/36
- 15/36
- 14/36
- None of the above

Next page

X	2	3	4	5
$P(X=x)$	0.2	0.3	a	0.3

Find $E(2X+5)$



Select one:

- 15.2
- 11.2
- 12.2
- 12.5
- 10.5

Next page



In a district, the probability of having a power cut in a house will be 0.003. There are 1000 houses in this district.

What is the variance of this distribution?

Choose... ▾

What is the rate of the occurrence in this distribution?

Choose... ▾

What is the probability that 10 houses having the power cut? (Give your answer upto 5 decimal places)

Choose... ▾

≡ Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	

Finish attempt ...

Time left 0:43:59

Next page

Select the correct answer.

Select one:

- Mode is unique for any data set.
- Quartiles divide a data set in to three equal parts.
- Variance is the positive square root of the standard deviation.
- The mean and the median can be equal for particular data sets.
- None of the above

Online Exams

Sri Lanka Institute of Information Technology

To estimate average normal body temperature of all pregnant women in Sri Lanka, a doctor measures the temperatures of 100 healthy pregnant women. The average temperature for that group is 97.2 degrees Fahrenheit.

What is the summary characteristic in this scenario?

static

What kind of statistical summary (parameter or statistic) does above summary characteristic have?

average

Choose...

Choose...

Statistic

Parameter

Average temperature

Temperature

Variance of temperature

mean ,mode

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 2

Not yet answered

Marked out of
1.00

Flag question

What is the correct statement regarding Sample Space (S)?

- 1) A set containing several outcomes of an experiment
- 2) A set containing all the outcomes of an experiment
- 3) $\Pr(S) = 1$
- 4) $P(S) < 1$

Select one:

- Only (1) is correct
- Only (2) is correct
- Only (1) and (3) are correct
- Only (2) and (3) are correct
- None of the above are correct

The set containing all possible outcomes of an experiment

≡ Quiz navigation

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15

Finish attempt ...

Time left 0:49:56

Next page

Question 8

Not yet answered

Marked out of
1.00

Flag question

If $E(X^2+2)=10$ and $E(X) = 2$, find $\text{Var}(X)$

Select one:

- 2
- 5
- 6
- 4
- 8

expected value & variance

Following table describes about the leisure time activities of 100 students in a class.

	Reading	Watching TV	Listen to music	other
Male	15	25	10	10
Female	20	5	10	5

According to the two way table, what is the percentage of female students who listen to music ?

Select one:

- 10%
- 15%
- 20%
- 5%
- None of the above



Online Exams

Sri Lanka Institute of Information Technology

Question 5

Not yet answered

Marked out of
1.00

Flag question

Consider a computer system with Poisson job-arrival stream at an average of 2 per minute. Determine the probability that in any one-minute interval there will be at least 3 job arrivals.

Select one:

- 0.41223
- 0.32332
- 0.27764
- 0.21163
- 0.11638

$$\lambda = 2$$
$$\mu = 3$$

Next page



What is mean by a statistic?

Select one:

- Characteristic about all the individuals in a population
- Characteristic about all the individuals in a sample
- Summary characteristic about all the individuals in a sample
- Summary characteristic about all the individuals in a population
- None of the above

Next page



In a classroom, 30% of students are doing Mathematics while 60% are doing Statistics. 10% are doing both of these subjects. What percentage is doing none of these subjects?

Select one:

- 0.3
- 0.5
- 0.2
- 0.1
- 0.6

≡ Quiz nav

1	2	3
8	9	10
15	16	17

Finish attempt...

Time left: 0:30:15

Next page



Sri Lanka Institute of Information Technology

ITI9952758 Hettiarachchi H.D. et al.

in 1

answered

1 out of

5 question

The below transformation is applied to a data set.

$Y = 2X + 3$, where X is the old data and Y is the new data.

If the variance of the first data set is 7 then what is the variance of the new data set.

Select one:

24

28

14

7

None of the above

≡ Quiz navigation

1	2	3	4	5
8	9	10	11	12
15	16	17	18	19

Finish attempt...

Time left: 05:07

Next page



Find mean and P_{18} (Using nearest rank method / round off the position of P_{18} upto nearest integer) for the following data set. (Don't use linear interpolation method to find P_{18})

7.8, 9.9, 10.2, 11.4, 13.6, 18.9, 20.2

Mean

Choose...

P_{18}

Choose...

Next page



Online Exams

Sri Lanka Institute of Information Technology

IT191566

Question 6

Not yet answered

Marked out of
1.00

 Flag question

People who are available, or can be easily recruited are used in the sampling method called,

Select one:

- Simple random sampling.
- Cluster sampling.
- Systematic sampling.
- Convenience sampling
- None of the above,



Next page



Online Exams

Sri Lanka Institute of Information Technology

wered
of
stion

≡ Qu

A man sells electronic devices in his shop at an average rate of 2 per day. What is the probability that the man sells at least 3 "electronic devices" in a week (7days)?

Select one:

- 0.85456
- 0.65412
- 0.99991
- 0.75442
- 0.21454

1
8
15

Finish a

Time let



Next Page



Sri Lanka Institute of Information Technology

An example for a non-probability sampling method is,

Select one:

- Quota sampling method
- Simple random sampling method
- Stratified random sampling method
- Cluster sampling method
- None of the above





Online Exams

Sri Lanka Institute of Information Technology

Question 9

yet answered

Mark out of

1

Flag question

Most analysts focus on the cost of tuition as the way to measure the cost of a college education. But incidentals, such as textbook costs, are rarely considered. A researcher at Drummond University wishes to estimate the textbook costs of first-year students at Drummond. To do so, she monitored the textbook cost of 250 first-year students and found that their average textbook cost was \$300 per semester. Identify the sample in the study.

Select one:

- All Drummond University students.
- All college students.
- All first-year Drummond University students.
- All first-year college students.
- None of the above.





Question 12

Not yet answered

Marked out of

0.00

Flag question

Sample mean and the median of the following data are respectively given by
-1, 2, 0, 3, 3, 4, 2

Select one:

- 2 and 1.875
- 1.8571 and 2
- 1.7209 and 1.9863
- 1.574 and 2
- None of the above



Next page

In a study there were 15 males and 34 females. What is the graphical tool which **cannot** be used to describe this information?

Select one:

- One-way frequency table
- Box plot
- Pie chart
- Bar chart
- All the above cannot be used



In an experiment of rolling two dice, the first die shows a ONE and the other die rolls under the table and you cannot see it. Now, what is the probability that both die show ONE?

Select one:

- 1/3
- 1/6
- 1/36
- 9/36
- None of the above



Next page

Consider the variable, number of coins in a purse. What type of variable is it?

Select one:

- Nominal Variable
- Ordinal Variable
- Discrete Variable
- Continuous Variable float value
- None of the above

categorical



Moodle

Online Exams

Sri Lanka Institute of Information Technology

SLIIT

Question 6

Not yet answered

Marked out of
1.00

Flag question

P(X=x)

X	0	1	2
0.3	0.2	0.1	0.3

Find $P(0 \leq X \leq 2)$?

Select one:

- 0.9
- 0.3
- 0.8
- 0.6
- 0.7

Next page

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Finish attempt -
Time left 0:29:19

insert

fn f12

page back

10



Sri Lanka Institute of Information Technology

What is the probability that the sum of two die will be greater than 8, given that the first die is 6?

Select one:

- 1/2
- 3/4
- 2/3
- 7/12
- None of the above



Next Page

≡ Quiz naviga

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

Finish attempt

Time left 0:17:58



14

Answered
out of

question

Which of the statements is false?

Select one:

- Variance is a measurement of dispersion.
- The units being used in the variance are not meaningful always.
- Variance is highly effected by the extreme values of the data set.
- Variance can be zero for some data sets. when data set's value equal
- None of the above

This is a measurement of dispersion/spread of the data. This describes how the data has dispersed around its mean

Next p

n 13

answered

1 out of

g question

Consider a computer system with Poisson job-arrival stream at an average of 2 per minute. Determine the probability that in any one-minute interval there will be at least 3 job arrivals.

Select one:

- 0.32332
- 0.11638
- 0.21163
- 0.41223
- 0.27764

Next page

≡ Quiz r

1	2
3	4
5	6

Finish attempt

Time left 0:16:25



Online Exams

Sri Lanka Institute of Information Technology

Question 11

Not yet answered

Marked out of
2.00

Flag question

To estimate average normal body temperature of all pregnant women in Sri Lanka, a doctor measures the temperatures of 100 healthy pregnant women. The average temperature for that group is 97.2 degrees Fahrenheit.

What is the summary characteristic in this scenario?

Choose...

What kind of statistical summary (parameter or statistic) does above summary characteristic have?

Choose...



Next page

What is the correct statement regarding **two** Mutually Exclusive events (A & B),

- 1) outcome of one event does not affect the outcome of the other event.
- 2) Two events cannot be occurred at the same time.
- 3) $P(A \cap B) = P(A) * P(B)$
- 4) $P(A \cup B) = P(A) + P(B)$

Select one:

- Only (1) is correct
- Only (1) and (3) are correct
- Only (2) is correct
- None of the above are correct
- Only (2) and (4) are correct

≡ Quiz

1	2
8	9
15	16

Finish attempt

Time left 0:1

Next page



Online EXAMINATIONS

Sri Lanka Institute of Information Technology

Consider two events (A & B)
 $P(A \cup B)' = 0.1$, $P(A) = 0.5$, $P(B) = 0.7$, find $P(A'|B)$

Select one:

- 0.164
- 0.245
- 0.654
- 0.842
- 0.571

Question 7
Not yet answered
Marked out of
1.00

Flag question



Online Exams

Sri Lanka Institute of Information Technology

Question 11

Not yet answered

Marked out of

.00

Flag question

What is the probability that the sum of two die will be greater than 8, given that the first die is 6?

Select one:

- 1/2
- 3/4
- 2/3
- 7/12
- None of the above

Next page



Online Exams

Sri Lanka Institute of Information Technology

it1998962

6

wered

af

estion

What is mean by central tendency?

Select one:

- This gives an idea about the asymmetry of the data as a whole
- This gives an idea about whether the distribution is peaked or flat
- This is a measurement of dispersion/spread of the data
- This gives an idea about the location of the data as a whole
- None of the above

Quiz r

1	2
8	9
15	16

Finish attempt

Time left 0:09

Next page

Question 19

Not yet answered

Marked out of
0

Flag question

In a school there are 120 students. 55 students are playing cricket. 50 students are playing football and 50 students are playing volleyball. 15 students are playing both cricket and football. 25 students are playing both football and volleyball. 20 students are playing both cricket and volleyball. 5 students are playing all three games. What is the probability that a randomly selected student play any of this game?

Select one:

- 0.932
- 0.445
- 0.245
- 0.333
- 0.554

100/120

≡ Quiz navigation

1	2	3	4
8	9	10	11
15	16	17	18

Finish attempt ...

Time left 0:07:22

Next page



20

answered

out of

question

Which of the statements is false?

Select one:

- Variance is a measurement of dispersion.
- The units being used in the variance are not meaningful always.
- Variance is highly effected by the extreme values of the data set.
- Variance can be zero for some data sets.
- None of the above

Finish attempt -



Online Exams

Sri Lanka Institute of Information Technology

Question 12

Not yet answered

Marked out of

.00

Flag question

Mode and the median of the following data set respectively

6, 5, 5, 4, 3, 5

Select one:

- 6 and 6
- 5 and 6
- 5 and 5.5
- 5 and 5
- None of the above

3,4,5,5,5,6



it19158600 Vitharanagamage A.T

Online Exams

Sri Lanka Institute of Information Technology

In the 2000 census of Sri Lanka, it was determined that the average household size was 2.59 persons per household.

What is the summary characteristic in this scenario?

Choose: static

What kind of statistical summary (parameter or statistic) does above summary characteristic have?

Choose: average



Next page

≡ Quiz navigation

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

Finish attempt ...

Time left 0:02:13



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

it19952758 Hettiarachchi H.D it199

on 1

answered

out of

question

The below transformation is applied to a data set.

$Y = 2X + 3$, where X is the old data and Y is the new data.

If the variance of the first data set is 7 then what is the variance of the new data set.

Select one:

24

28

14

7

None of the above

Quiz navigation

1	2	3	4	5
8	9	10	11	12
15	16	17	18	19

Finish attempt...

Time left: 057:07

Next page

Which of the following is not a form of non-probability sampling?

Select one:

- Quota sampling.
- Convenience sampling.
- Cluster sampling.
- Purposive/Judgement sampling.
- They are all forms of non-probability sampling.

A telephone survey of 500 residences was conducted. People refused to talk to the interviewer in 200 of the residences. What is the potential error in this scenario?

Select one:

- Sampling error
- Measurement error
- Coverage error
- Non-response bias
- None of the above

Next page

In a production line on average there are 4 defective bulbs from 10 bulbs. A random sample of 20 bulbs were chosen. Calculate the average number of defective bulbs and variance.

Select one:

- Average= 5, variance=6.8
- Average= 7, variance=4.8
- Average= 8, variance=4.8
- Average= 8, variance=7.8
- Average= 5, variance=5.8



≡ Quiz navigation

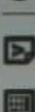
1	2	3	4
8	9	10	11
15	16	17	18

Finish attempt ...

Time left 0:37:38

Next page

x



Online Exams

Sri Lanka Institute of Information Technology

The statistics course consists of two (2) online quizzes. 22% of the class passed both tests and 41% of the class passed the first test. About what percent of those who passed the first test also passed the second test? (Round up the answer to the nearest integer)

22/41 * 100

Select one:

- 54%
- 20%
- 3%
- 24%
- None of the above

≡ Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20				



AI190728728 Colombo P.L.D at19238128

Next page

Finish attempt
Time left: 0:46:22



Online Exams

Sri Lanka Institute of Information Technology

Which of the following sampling techniques is an **equal probability selection method** (EPSEM) in which every individual in the population has an equal chance of being selected?

≡ Quiz

Select one:

- Simple random sampling.
- Systematic sampling.
- Proportional stratified sampling.
- Cluster sampling using the PPS technique.
- All of the above are EPSEM.

1	2
8	9
15	16

Finish attempt

Time left 0:



Next page

Sampling or Information Technology

To assess passenger satisfaction, an airline distributed questionnaires to 50 passengers in the airline's frequent flyer lounge. All 50 individuals responded, and 40 respondents said that they had a high degree of satisfaction with the airline.

Select one:

- Convenience sampling
- Cluster sampling
- Haphazard sampling
- Quota sampling
- Simple random sampling

Next page

Quiz na

1	2	
8	9	1
15	16	1

Finish attempt

Time left 0:23:0



Online Exams

Sri Lanka Institute of Information Technology

Question 10

Not yet answered

Marked out of
1.00

Flag question

Suppose 2% of the bolts produced by a factory are defective. In a shipment of 3600 bolts from the factory, find the mean number of defective bolts and the standard deviation without using any approximation.

Select one:

- Mean = 72, standard deviation = 70.56
- Mean = 72, standard deviation = 8.4
- Mean = 720, standard deviation = 24
- Mean = 720, standard deviation = 576
- None of the above

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 13

Not yet answered

Marked out of

1.00

Flag question

X	0	1	2	3
P(X=x)	0.2	0.3	a	0.3

Find the expected value of X ?

Select one:

- 0.16
- 2.1
- 1.6
- 0.12
- 1.2



Next page