



## 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?

4.5

Choose... ▾

What is the rate of the occurrence in this distribution?

4.5

Choose... ▾

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

0.49919

Choose... ▾

≡ Quiz

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Question 1

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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

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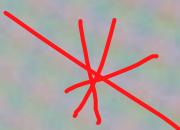
Next page



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



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≡ Quiz

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| 15 | 16 |

Finish attempt

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

Select one:

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





## Sri Lanka Institute of Information Technology

it19952758 Hettiarachchi H.D it199

on 1  
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g 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...

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# Online Exams

Sri Lanka Institute of Information Technology

it1991321

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 | 2
- 4.49325**
- 0.00240
- 4
- 0.99919 3

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## Online Exams

Sri Lanka Institute of Information Technology

## Question 2

Not yet answered

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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

ANSWER

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

v6

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

$$P(X \geq 3)$$



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

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 77

Choose...

0.13768

0.55029

0.08392

0.41259

0.11712

0.39370

0

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Next



# Online Exams

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**Question 3**

Not yet answered

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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?

Choose... ▾

Next page



## Online Exams

Sri Lanka Institute of Information Technology

## Question 1

Not yet answered

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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

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 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... ▾

Next page

≡ 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

Select the correct answer.

Select one:

- Mode is unique for any data set. X
- Quartiles divide a data set in to three equal parts. X
- Variance is the positive square root of the standard deviation. X
- 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?



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

Choose...

Choose...

Statistic

Parameter

Average temperature

Temperature

Variance of temperature

0

Close

Next page



## Online Exams

Sri Lanka Institute of Information Technology

**Question 2**

Not yet answered

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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.

≡ Quiz navigation

|    |    |    |
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| 1  | 2  | 3  |
| 9  | 10 | 11 |
| 17 | 18 | 19 |

Finish attempt ...

Time left 0:49:56

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

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

Finish attempt ...

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Question 8

Not yet answered

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

Select one:

- 2
- 5
- 6
- 4
- 8

## MODULE 5 STATISTICS

### Measures of Information Technology

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

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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

[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

# Online Exams

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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)

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 |    |    |    |    |

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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?

≡ Quiz nav

Select one:

- 0.3
- 0.5
- 0.2
- 0.1
- 0.6

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| 8  | 9  | 10 |
| 15 | 16 | 17 |

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## SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

it19952758 Hettiarachchi H.D it199

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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  |
| 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 |

Finish attempt...

Time left 0:57:07

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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

Mean

Choose... \*

$P_{18}$

Choose... \*



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## Online Exams

Sri Lanka Institute of Information Technology

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### Question 6

Not yet answered

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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

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?

Select one:

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

≡ Quiz

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| 8  | 9  |
| 15 | 16 |

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# Online Exams

Sri Lanka Institute of Information Technology

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



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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

Not yet answered

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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.



Next



Question 12

Not yet answered

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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



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## Sampling

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

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| 15 | 16 |

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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



## 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

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
- None of the above



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Online Exams

Sri Lanka Institute of Information Technology

Question 6

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$P(X=x)$

|   |     |     |     |
|---|-----|-----|-----|
| X | 0   | 1   | 2   |
|   | 0.3 | 0.2 | 0.3 |
|   | 0.1 | a   |     |

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

Select one:

- 0.9
- 0.3
- 0.8
- 0.6
- 0.7

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17 18 19 20

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## Online Exams

Sri Lanka Institute of Information Technology

Question 10

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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

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## 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



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Quiz navigation

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| 1  | 2  | 3  | 4  |
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| 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |

Finish attempt

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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

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Quiz

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

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| 1  | 2  |
| 3  | 9  |
| 15 | 16 |

Finish attempt

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# Online Exams

Sri Lanka Institute of Information Technology

Question 11

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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... ▾



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# Online Exams

Sri Lanka Institute of Information Technology

Question 13

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|        |     |     |   |     |
|--------|-----|-----|---|-----|
| 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

≡ Quiz

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| 1  | 2  |
| 8  | 9  |
| 15 | 16 |

Finish attempt

Time left 0:12

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

Next page



### Question 7

Not yet answered  
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## Online Exams

### 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

X

Next page



# Online Exams

Sri Lanka Institute of Information Technology

Question 11

Not yet answered

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1.00

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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

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question

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

|    |    |
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| 8  | 9  |
| 15 | 16 |

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# Online Exams

Sri Lanka Institute of Information Technology

Question 12

Not yet answered

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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



Question 19

Not yet answered  
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Flag question

≡ Quiz navigation

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
- 0.833
- 0.554



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

Finish attempt ...

Time left 0:07:22

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20

answered

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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 ...

A measurement scale which includes true zero point is,

Select one:

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





SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

## 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

Mean

Choose... \*



$P_{18}$

Choose... \*

Next page



it19158600 Vitharanagamge 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...

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

 Choose...

≡ Quiz navigation

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

Finish attempt...

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**Question 18**

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|        |     |     |   |     |
|--------|-----|-----|---|-----|
| 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

## Quiz navigation

|    |    |    |    |
|----|----|----|----|
| 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  |
| 9  | 10 | 11 |    |
| 15 | 16 | 17 | 18 |

Finish attempt ...

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# Online Exams

Sri Lanka Institute of Information Technology

Question 11

Not yet answered  
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Edit question

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

Select one:

- 1/2
- 3/4
- 2/3
- 5/12

None of the above

Next Question

Consider the following probability

$$P(X=x) = (1/12)^x \text{ for } x=3,4,5$$

Find the expected value

Select one:

- 3
- 0.3
- 4.28
- 2.5
- None of the above



# NetExam

Sri Lanka Institute of Information Technology

Dashboard

Examinations

Lockdown Browser

Practice Test

Question 1

Not yet answered

Marked out of  
3.00

Flag question

Verbal SAT test scores  $X$ , for which the mean is 500 and the standard deviation is 100, assume to have a normal distribution. Find the probability that verbal SAT test score is less than 650.

Select one:

- 0.93319
- 0.98819
- 0.88319
- 0.76319
- 0.92576

it20178918 Tharuka Sachintha Prathibhan Mappa M.M. it20178918 13:34:05

Quiz navigation

Finish attempt

Time left: 1:01:29

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

Print page

# NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

Which of the following can be a probability function?

Select one:

- P(X)=1/2 for  $x=1,2,3$  X
- P(X)= $x/5$  for  $x=1,2,3,4$  X
- P(X)= $x/2$  for  $x=0,1,2$
- P(X)=1/5 for  $x=0,2,3$
- None of the above

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F

D

S

C

Z

Q

W

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... ▾

Next page ▶

NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

https://netexam.dl.iitm.ac.in/mod/quiz/attempt.php?attempt=51598&cmid=2476

120184612 Per

Step 1 yet answered  
Flag question

Suppose that the amount of money that students at a college spend on textbooks this semester have a normal distribution with mean Rs.368 and standard deviation Rs.20. What is the probability that a randomly selected student spends between Rs.250 and Rs.450 on textbooks this semester?

Select one:

- 0.66255
- 0.55266
- 0.22255
- 0.38255
- 0.66368

Next Step

Detail

| Score | Grade |
|-------|-------|
| 100   | A     |
| 80    | B     |
| 60    | C     |
| 40    | D     |
| 20    | E     |
| 0     | F     |
| -20   | G     |
| -40   | H     |
| -60   | I     |
| -80   | J     |
| -100  | K     |
| -120  | L     |
| -140  | M     |
| -160  | N     |
| -180  | O     |
| -200  | P     |
| -220  | Q     |
| -240  | R     |
| -260  | S     |
| -280  | T     |
| -300  | U     |
| -320  | V     |
| -340  | W     |
| -360  | X     |
| -380  | Y     |
| -400  | Z     |

NetExam - 2021 X +

https://netexam.silit.lk/mod/quiz/attempt.php?attempt=91785&cmid=2476&page=1

# NetExam

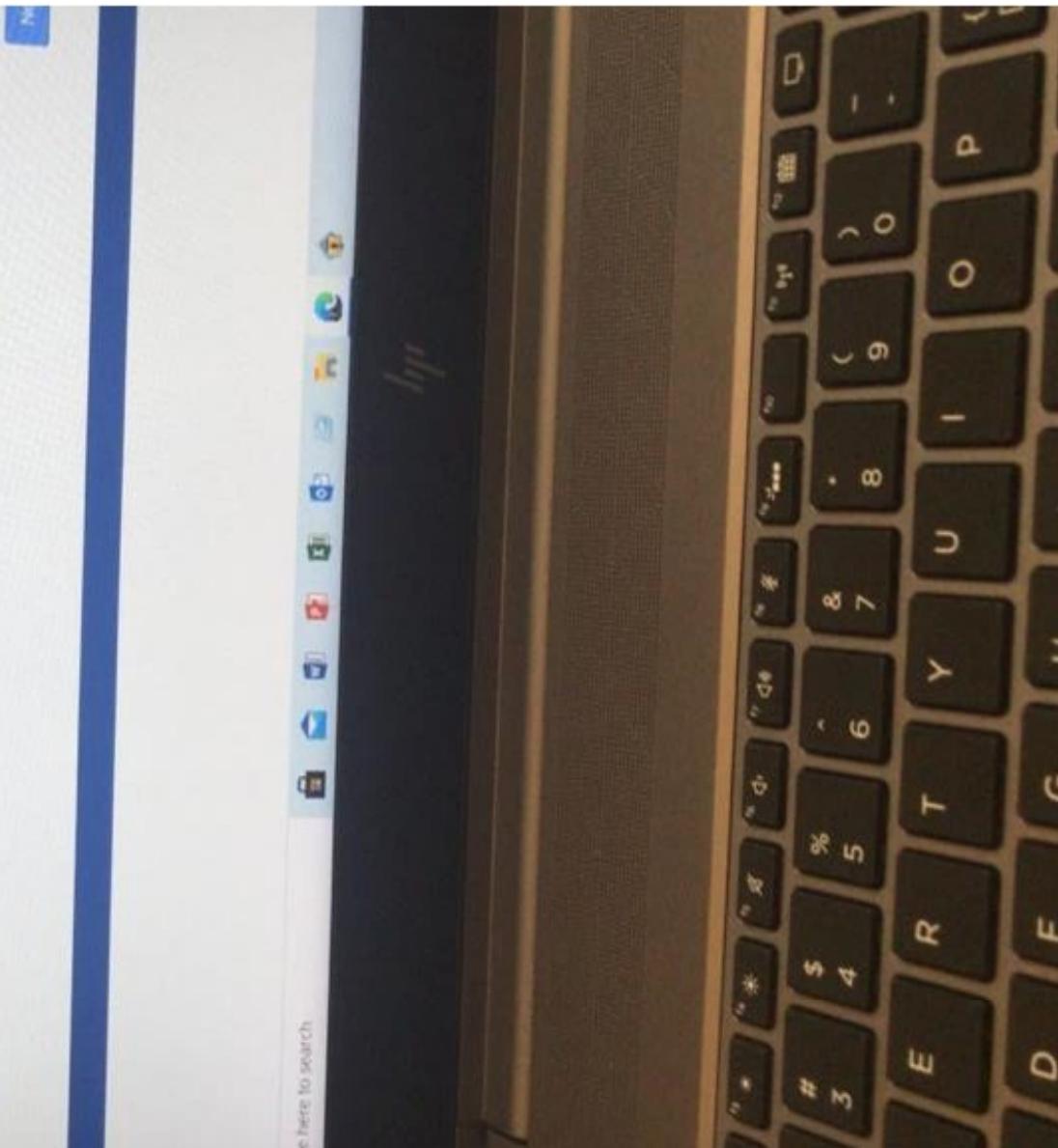
Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

After studying a couple's family history, a doctor determines that the probability of any child born to this couple having a gene disease X is 1 out of 4. If the couple has three children, what is the probability that exactly two of the children have the gene disease X?

Select one:

- 9/64
- 10/64
- 12/64
- 7/64
- None of the above



The number of floors of each building in a particular city is recorded. Make a stem-and-leaf plot of the data.

| Number of Floors |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 24               | 38 | 46 | 16 | 28 | 31 | 12 | 27 | 32 | 49 | 35 | 12 | 38 | 34 | 48 | 22 | 36 | 29 | 47 | 41 |
| 49               | 30 | 21 | 17 | 40 | 13 | 32 | 15 | 31 | 21 | 13 | 16 | 43 | 33 | 30 | 25 | 28 | 29 | 13 | 11 |

Select one:

- Number of Floors

| Stems | Leaves  |
|-------|---------|
| 1     | 123567  |
| 2     | 1245789 |
| 3     | 0123468 |
| 4     | 0136789 |

Key: 1 | 1 means 11

- Number of Floors

| Stems | Leaves                           |
|-------|----------------------------------|
| 1     | 11 12 12 13 13 13 15 16 16 17    |
| 2     | 21 21 22 24 25 27 28 28 29 29    |
| 3     | 30 30 31 31 32 32 33 33 34 36 38 |
| 4     | 40 41 43 46 47 48 49 49          |

Key: 1 | 1 means 11

- Number of Floors

| Stems | Leaves       |
|-------|--------------|
| 1     | 1223335667   |
| 2     | 1124578899   |
| 3     | 001122334688 |
| 4     | 01367899     |

Key: 1 | 1 means 11

- Number of Floors

# NetExam

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Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

Which of the following would fit the definition of "Statistical Independence" of events A and B?

Select one:

- P(A | B) = P(A) + A(B)
- P(A | B) = P(A and B)/P(B)
- P(A | B) = P(B)
- P(A and B) = P(A)
- None of the above

here to search

DELL



3  
Answered  
out of  
question

Suppose the yearly rainfall for a city in southern California follows a normal distribution, with a mean of 18 inches and a standard deviation of 6 inches. For a randomly selected year, what is the probability that rainfall will be less than 10 inches?

≡ Quiz

Finish at

Time left

1

7

13

19

Select one:

- 0.09176
- 0.29176
- 0.90176
- 0.87176
- 0.90456



The probability that a patient recovers from a heart operation is 0.9. What is the probability that at least 2 of the next three patients who have this operation recover? (Don't use any approximation)

Select one:

- 0.8960
- 0.9720
- 0.7890
- 0.5960
- None of the above

Next page





Question 2

Not yet answered

Marked out of  
3.00

Flag question

Assuming that the weekly demand for a video recorder is a poisson variable with mean 3, find the probability that the shop sells

at least 3 in a week.

at most 7 in a week.

more than 20 in a month.

- Choose...
- Choose... **2**
- 0.9881 **2**
- 0.0116
- 0.03351
- None of the above **3**
- 0.08392
- 0.57681 **1**

Next page

Suppose the yearly rainfall for a city in southern California follows a normal distribution, with a mean of 18 inches and a standard deviation of 6 inches. For a randomly selected year, what is the probability that rainfall will be between 12 and 20 inches?

Select one:

- 0.47064
- 0.74064
- 0.47864
- 0.72864
- 0.87064



Next page

To be an outlier for the following data set, data points should lie between,

18      44      47      55      61      62      78      79      83      145

Hint: Outlier is defined as a value  $x$ , holding the following conditions.

$x > Q3 + 1.5 * (\text{Inter Quartile Range})$

$x < Q1 - 1.5 * (\text{Inter Quartile Range})$

Lower bound

Choose... ▾



Upper bound

Choose... ▾

Ne

Patients arrive at a hospital accident and emergency department.  
Find the probability that during 15 minutes period the number  
of patients arriving is,

Question

Exactly 5 ?

Choose...



Choose...

At least 7 ?

- 0.00093
- 0.00039
- 0.01214
- 0.00098
- 0.01858
- 0.01412

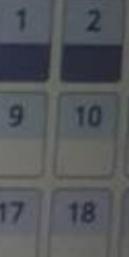
Each year, ratings are compiled concerning the performance of new cars during the first 90 days of use. The cars have been categorized according to whether a car needs warranty related repair or not (yes or no) and the country in which the company manufacturing a car is either Japan or Malaysia. Based on data collected for the last two years, the probability that a new car needs a warranty repair is 0.04. The probability that the car was manufactured by Malaysia is 0.60. The probability that a new car needs a warranty repair and was manufactured in Malaysia is 0.025.

what is the probability that a new car selected at random need a warranty related repair given that it is manufactured in Japan.  
(Keep the final answer in 4 decimal places)

Answer:

Next page





To be an outlier for the following data set, data points should lie between,

18    44    47    55    61    62    78    79    83    145

Hint: Outlier is defined as a value  $x$ , holding the following conditions.

$$x > Q3 + 1.5 \times (\text{Inter Quartile Range})$$

$$x < Q1 - 1.5 \times (\text{Inter Quartile Range})$$

Lower bound

4.375



Choose...

-4.375



5.735

-5.735

4.375

130.625

150.625

Upper bound

Next page

here to search



50%

Patients arrive at a hospital accident and emergency department at random times during the day. Find the probability that during 15 minutes period the department is,

Exactly 5 ?

Choose... ▾

At least 7 ?

Choose... ↗

Choose...

- 0.00093
- 0.00039
- 0.01214
- 0.00098
- 0.01858
- 0.01412

The sum of the percent frequencies for all classes will always equal

Select one:

- one
- the number of classes
- the number of items in the study
- 100
- Some cases it can be negative

Next page

# NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

If A is the event, "The team wins at least 5 foot ball games", then A' is:

Select one:

- The team wins more than 5 foot ball games
- The team wins less than 5 foot ball games
- The team does not win any foot ball game
- There is no sufficient information to answer the question
- None of the above

Type here to search



ard

question

out of

Answered

2

Consider the following probability function

$P(X=x) = Cx^2$ ;  $x=3,4,5$ , where  $C$  is positive constant. Find  $C$ .

Select one:

- 0.2
- 0.02
- 2
- None of the above



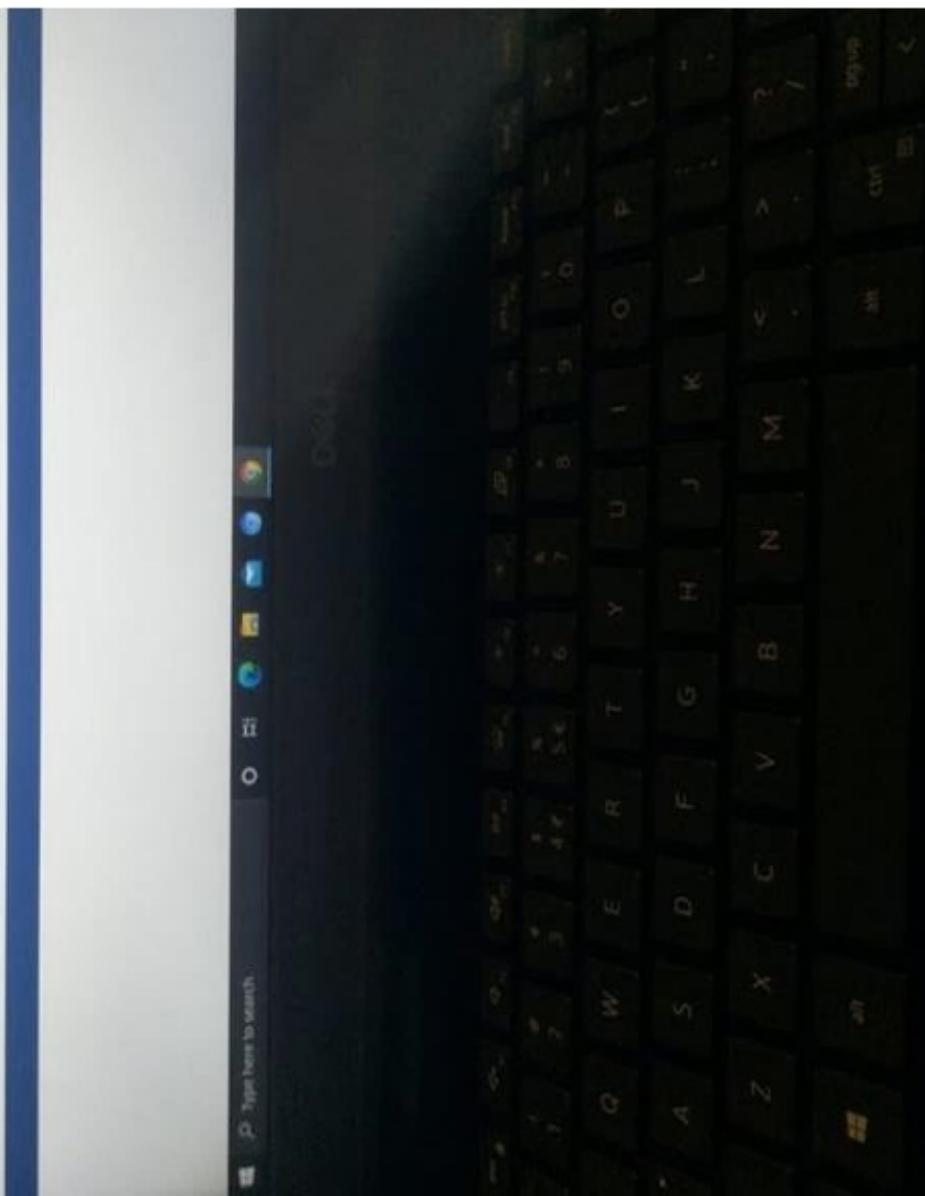
Pratice Test

Lockdown Browser

Examinations



| NetExam   |   | Sri Lanka Institute of Information Technology  |  |  |
|---|---|--|--|--|
| Card  | Examinations  | Lockdown Brower  | Practice Test                              |  |
|  3 | In a district, the probability of having a power cut in a house will be 0.0015. | What is the probability that at most 12 houses having the power cut, out of 3000 houses in the district? (Give your answer up to 5 decimal places) | What is the variance of this distribution? | What is the rate of the occurrence in this distribution? |
|  3 | Choose... ↗   | Choose... ↗  | Choose... ↗                                | Choose... ↗  |



swered  
nt of  
question

Verbal SAT test scores  $X$ , for which the mean is 500 and the standard deviation is 100, assume to have a normal distribution. Find the probability that verbal SAT test score is in between 500 and 700.

Select one:

- 0.47725
- 0.74425
- 0.74725
- 0.27745
- 0.87725



Next page

Find the outliers, if any, for the following data set

10.2, 14.1, 14.4, 14.4, 14.4, 14.5, 14.5, 14.6, 14.7, 14.7, 14.7, 14.7, 14.9, 15.1, 15.9, 16.4

Hint: Outlier is defined as a value  $x$ , holding the following conditions.

$$x > Q3 + 1.5 * (\text{Inter Quartile Range})$$

$$x < Q1 - 1.5 * (\text{Inter Quartile Range})$$

Is "10.2" an Outlier?

Choose... 

Choose...

Yes

No

Is "16.4" an Outlier?

A garment factory produces large lots of a certain type of garments. What is the mean of the number of defective units found in a sample of 10 units if the lot is 2% defective?

Select one:

- 5
- 2
- 0.2
- 0.98
- None of the above

[Next page](#)

If the number of arrivals in a queue is 10 per hour on average, determine the probability that, in any hour there will be

0 arrivals

6 arrivals

more than 6 arrivals

Choose...

Choose...

- None of the above
- 0.93291
- 0.00005
- 0.06305
- 0.86986

3  
1  
2

Next page

Midterm Examination - 2020 | Statistical Tables.pdf | Answer in Statistics and P. | +

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Home - Sinhala Sub... Google Translate Dashboard 21 Simple Ways To L...

Dashboard Examinations Lockdown Browser Practice Test

V Flag question

Select one:

Number of Floors

| Basis | Leaves  |
|-------|---------|
| 1     | 123567  |
| 2     | 1245789 |
| 3     | 0123468 |
| 4     | 0136789 |

Key: 1 | 1 means 11

Number of Floors

| Basis | Leaves          |
|-------|-----------------|
| 1     | 11121314151617  |
| 2     | 112141212131517 |
| 3     | 0011223344688   |
| 4     | 01246789        |

Key: 1 | 1 means 11

Number of Floors

| Basis | Leaves         |
|-------|----------------|
| 1     | 111213151617   |
| 2     | 11224425172827 |
| 3     | 1121313143120  |
| 4     | 38393536373839 |

Key: 1 | 1 means 11

None of the above

ion 5

et answered

ed out of

Flag question

Three bulbs are chosen from 15 bulbs of which 5 are defective. The probability that none is defective is,

Select one:

- 1/125
- 8/27
- 27/125
- 1/27
- None of the above

The probability that a patient recovers from a heart operation is 0.9. What is the probability that at least 2 of the next three patients who have this operation recover? (Don't use any approximation)

Select one:

- 0.8960
- 0.9720
- 0.7890
- 0.5960
- None of the above

Next page



$E(X)$  and  $E(X^2)$  of a discrete random variable are -1.4 & 2 respectively. What is  $V[X]$ ?

Select one:

- 0.4
- 0.4
- 1.4
- 0.04
- None of the above



# NetExam

Sri Lanka Institute of Information Technology

Dashboard

Examinations

Lockdown Browser

Practice Test

it201

Question 3

Not yet answered

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2.00

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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 ,

Exactly 7 : 0.11712

At least 10 : 0.41259

Next page



# NetExam

Sri Lanka Institute of Information Technology

Dashboard

Examinations

Lockdown Browser

Practice Test

IT20177164 Hathur...

Question 5

Not yet answered

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Each year, ratings are compiled concerning the performance of new cars during the first 90 days of use. The cars have been categorized according to whether a car needs warranty related repair or not (yes or no) and the country in which the company manufacturing a car is either Japan or Malaysia. Based on data collected for the last two years, the probability that a new car needs a warranty repair is 0.04. The probability that the car was manufactured by Malaysia is 0.60. The probability that a new car needs a warranty repair and was manufactured in Malaysia is 0.025.

What is the probability that a new car selected at random need a warranty related repair given that it is manufactured in Japan.  
(Keep the final answer in 4 decimal places)

Answer: 0.4167

I

Next page

☰ Quiz naviga...

Finish attempt ...

Time left 0:45:50

|    |    |    |    |
|----|----|----|----|
| 1  | 2  | 3  | 4  |
| 11 | 12 | 13 | 14 |



# NetExam

Sri Lanka Institute of Information Technology

Dashboard

Examinations

Lockdown Browser

Practice Test

R20177164 Hathur...

Question 7

Not yet answered

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Flag question

Select the most appropriate solution for the three blanks in the given statement.

The Statistical methods may be described as methods for drawing conclusions about \_\_\_\_\_ based on \_\_\_\_\_ computed from the \_\_\_\_\_."

Select one:

- statistics, samples, populations
- populations, parameters, samples
- statistics, parameters, samples
- parameters, statistics, populations
- populations, statistics, samples

☰ Quiz naviga...

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Time left 0:39:31



Next page

bon - 1021    X    (1) WhiteApp    X    G    In a district, the probability of having a power cut in a house will be 0.0015.

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## NetExam

Sri Lanka Institute of Information Technology

Examinations

Lockdown Browser

Practice Test

l120184512 Perera

red

In a district, the probability of having a power cut in a house will be 0.0015.

What is the probability that at most 12 houses having the power cut out of 3000 houses in the district? (Give your answer up to 5 decimal places)

What is the variance of this distribution?

What is the rate of the occurrence in this distribution?

Choose... 

Choose... 

Choose... 

Next page



Draft

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question

Verbal SAT test scores  $X$ , for which the mean is 500 and the standard deviation is 100, assume to have a normal distribution. Find the probability that verbal SAT test score is in between 500 and 700.

Select one:

- 0.47725
- 0.74425
- 0.74725
- 0.27745
- 0.87725

Next page



The average rate of telephone calls in a busy reception is 4 per minute. Calculate the probability that,

at least 2 telephone calls will be received in any minute

any minute with free of telephone calls

5 telephone calls will be received in any minute

≡ Q

Finish a

Time left

1  
2

8  
9

15  
16

Next page

The probability that a patient recovers from a heart operation is 0.9. What is the probability that at least 2 of the next three patients who have this operation recover? (Don't use any approximation)

Select one:

- 0.8960
- 0.9720
- 0.7890
- 0.5960
- None of the above

[Next page](#)

NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

At a certain school, 18% of all students play football and basketball and 32% of all students play football. What is the probability that a student plays basketball given that the student plays football? (Round up the answer to the nearest integer)

Select one:

50%

17%

5%

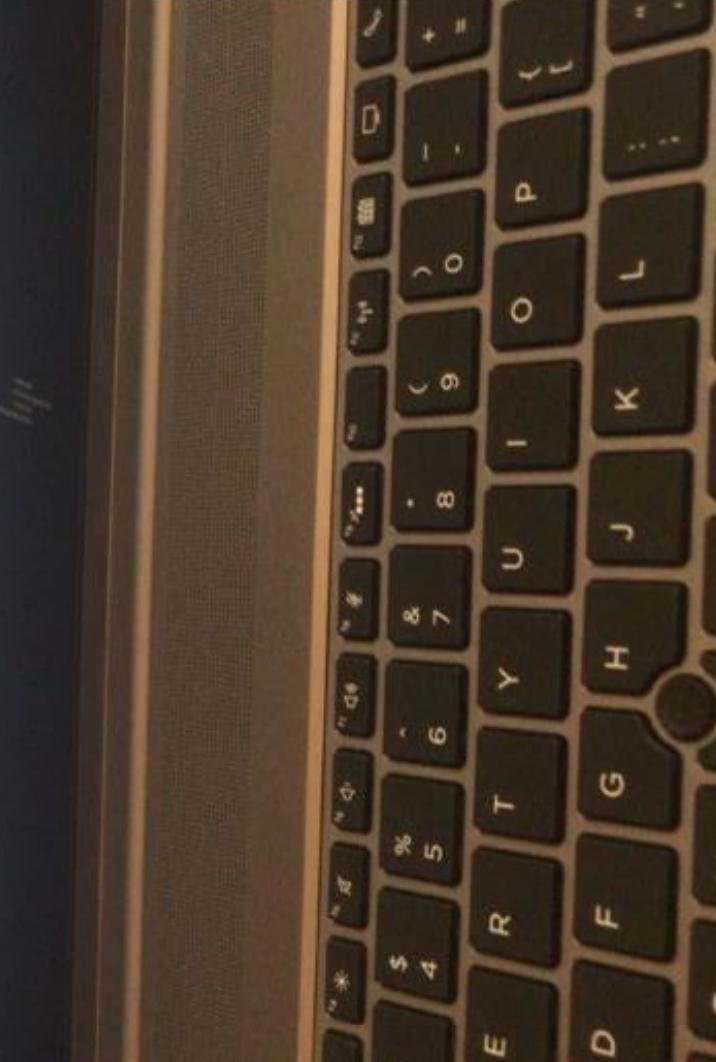
3%

None of the above

Next page

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NetExam - 2021

https://netexam.sliit.lk/mod/quizz/attempt.php?attempt=91785&cmid=24768&page=5

# NetExam

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Examinations Lockdown Browser Practice Test

The number of misprints on a page of the Daily Mercury has a Poisson distribution with mean 1.2. Find the number of errors

on page four is 2. 0.21686

on page three is less than 3. 0.87549

on the first ten pages totals 5. 0.0274

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HP

1 2 3 4 5 6 7 8 9  
0 . % ^ #

# NetExam



Sri Lanka Institute of Information Technology

Board Examinations Lockdown Browser Practice Test

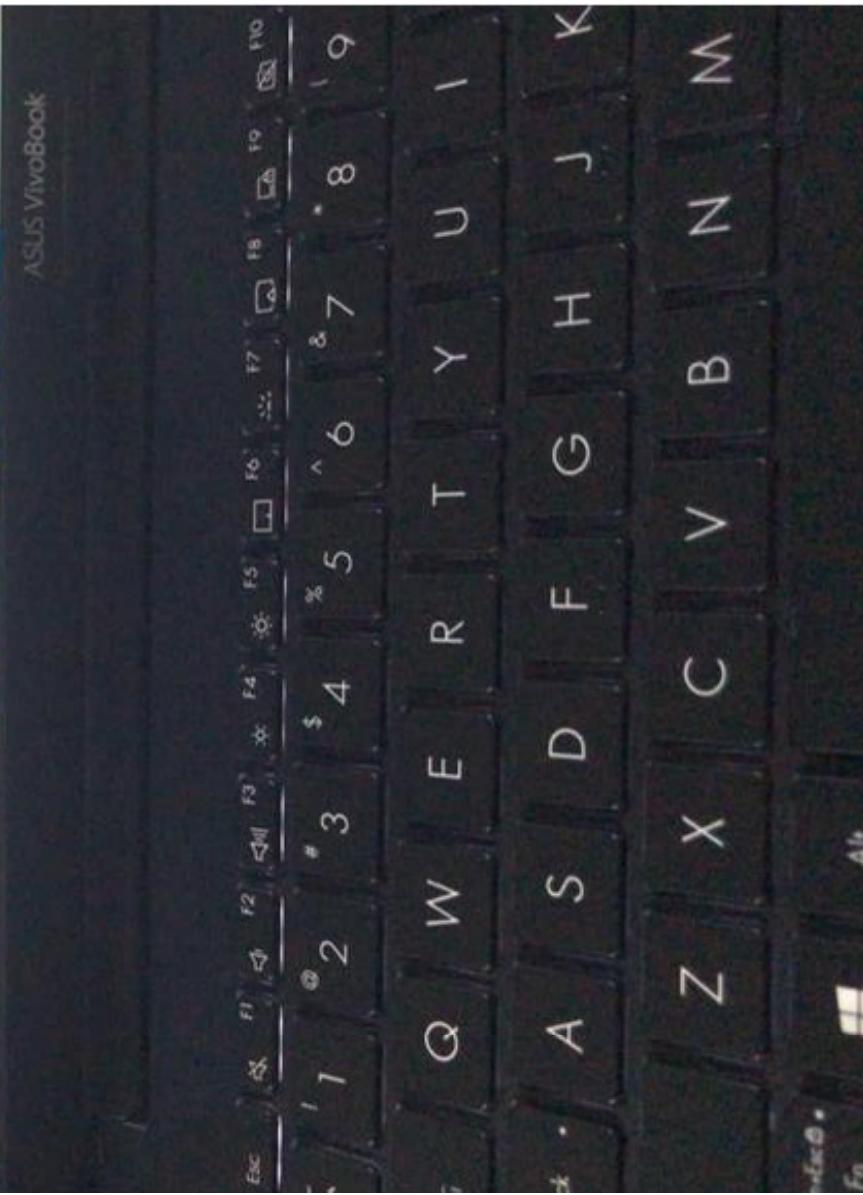
Question 5  
Not answered  
of 10 questions

Let  $E$  be an event and  $E^c$  its complement. If  $P(E) = 1/3$ , what is  $P(E^c)$ ?

Select one:

- $P(E) = P(E^c) = 1/3$
- $P(E) = P(E^c) = 2/3$
- $P(E) = 2 * P(E) = 2/3$
- $P(E) = 1 - P(E) = 2/3$
- None of the above

Type here to search



The probability of a machine producing a defective part is 0.02.

What is the probability of having more than 5 defective parts, out of a sample of 200? (Round your answer upto 5 decimal places)

What is the rate of the occurrence in this distribution?

What is the variance of this distribution?

Choose... ▾

Choose... ▾

Choose... ▾

[Next page](#)

Let  $E$  be an event and  $E'$  is its complement. If  $P(E) = 1/3$ , what is  $P(E')$ ?

Select one:

- $P(E') = P(E) = 1/3$
- $P(E') = P(E) - 1 = -2/3$
- $P(E') = 2 * P(E) = 2/3$
- $\underline{P(E') = 1 - P(E) = 2/3}$
- None of the above

Each year, ratings are compiled concerning the performance of new cars during the first 90 days of use. The cars have been categorized according to whether a car needs warranty related repair or not (yes or no) and the country in which the company manufacturing a car is either Japan or Malaysia. Based on data collected for the last two years, the probability that a new car needs a warranty repair is 0.04. The probability that the car was manufactured by Malaysia is 0.60. The probability that a new car needs a warranty repair and was manufactured in Malaysia is 0.025.

what is the probability that a new car selected at random need a warranty related repair given that it is manufactured in Japan.  
(Keep the final answer in 4 decimal places)

Answer:

Next page



## Question 9

Not yet answered

Marked out of

1.00

Flag question

Determine the value of k so that the function  $P(X=x) = kx$  for  $x=1,2,3,4,5,6$  can serve as a probability distribution of the discrete random variable X.



Select one:

- 3/21
- 5/21
- 1/21
- 2/21
- None of the above

## Quiz navigation

Finish attempt ...

Time left 0:24:42

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  |
| 9  | 10 | 11 | 12 | 13 | 14 |
| 17 | 18 | 19 |    |    |    |

Next page

Find  $E(X)$  for the random variable X with table:

values of X: 1      3      5

$P(X=x)$ :  $1/6$        $1/6$        $2/3$

Select one:

- 4
- 1
- 10
- 8
- None of the above

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OSCO Report SLT OnlineExams Courses Analog Electronics Database System A...

# NetExam

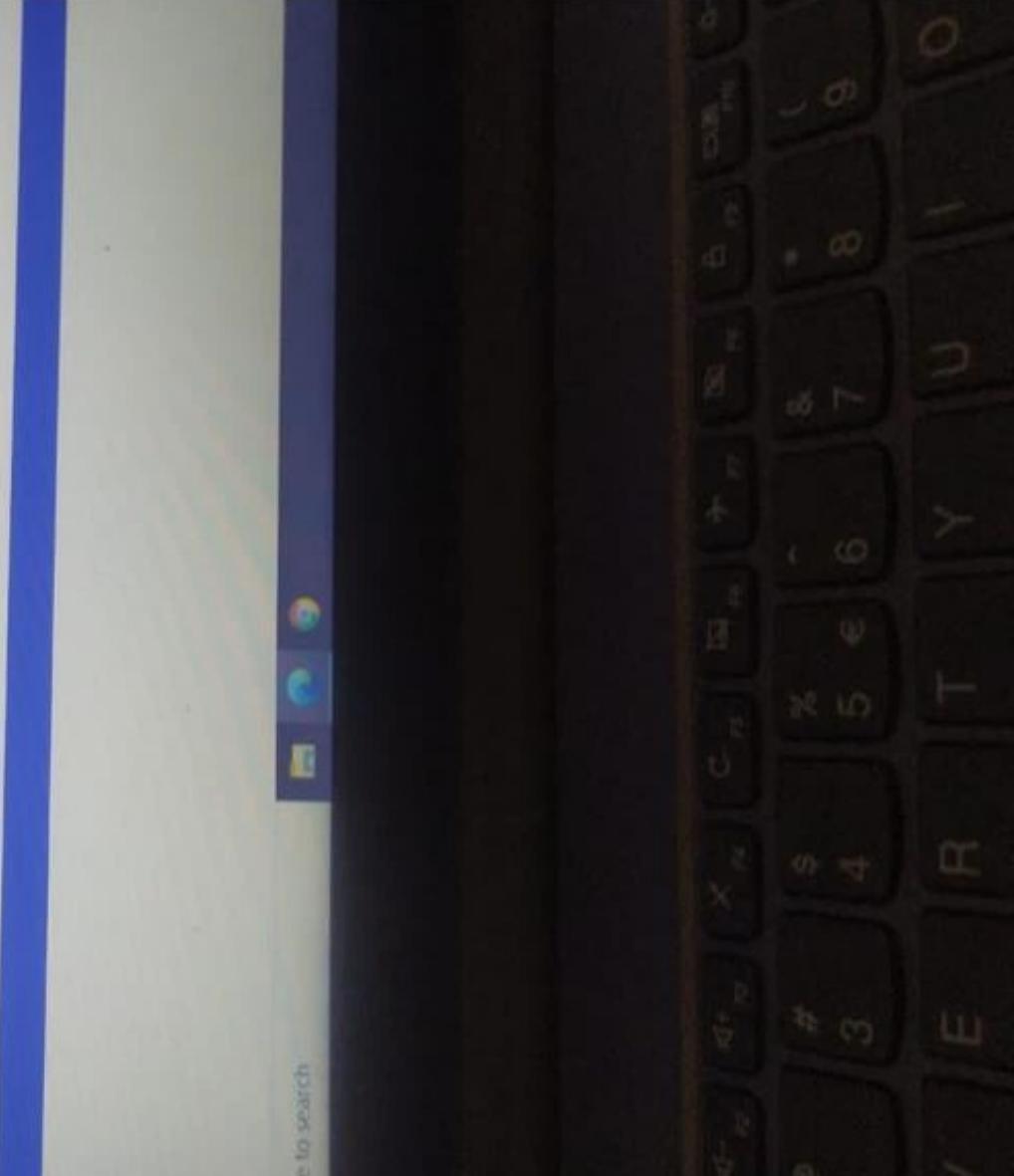
Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

Which of the following would fit the definition of "statistical independence" of events A and B?

Select one:

- $P(A \mid B) = P(A) + P(B)$
- $P(A \mid B) = P(A \text{ and } B)/P(B)$
- $P(A \mid B) = P(B)$
- $P(A \text{ and } B) = P(A)$
- None of the above



# NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

IT20184612 P

A garment factory produces large lots of a certain type of garments. What is the mean of the number of defective units found in a sample of 10 units if the lot is 2% defective?

Select one:

- 5
- 2
- 0.2
- 0.96
- None of the above

Next page



In a district, the probability of having a power cut in a house will be 0.003.

What is the probability that 10 houses having the power cut, out of 1000 houses in this district? (Give your answer up to 5 decimal places)

Choose... ▾

What is the variance of this distribution?

Choose... ▾

What is the rate of the occurrence in this distribution?

Choose... ▾

Next page

When Joe bowls, he can get a strike (knock down all of the pins) 60% of the time. Assuming that all trials are *independent and identical* what is the probability for him to bowl zero strikes out of four tries?

Select one:

- 512/10000
- 256/1000
- 256/10000
- 128/10000
- None of the above

[Next page](#)

**Question 7**

Not yet answered

Marked out of  
1.00 Flag question

Which of the following can be a probability function?

Select one:

- $P(X)=1/2 \text{ for } x=1,2,3$
- $P(x)=x/5 \text{ for } x=1,2,3,4$
- $P(X)=x/2 \text{ for } x=0,1,2$
- $P(x)=1/5 \text{ for } x=0,2,3$
- None of the above



10

answered

out of

question

|      |     |      |     |
|------|-----|------|-----|
| X    | -10 | -20  | 30  |
| P(X) | 1/5 | 3/10 | 1/2 |

Let  $X$  be a random variable with the probability distribution given above. The mean of  $g(X) = 2X$  is:

Select one:

- 1
- 7
- 14
- 1
- None of the above

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)

Select one:

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

[Next page](#)

The statistic NOT required for a box plot is.

Select one:

- Mean
- 1st quartile
- Median
- 3rd quartile
- None of the above

**Question 10**

Not yet answered

Marked out of  
1.00

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 p

The probability of a machine producing a defective part is 0.04.

What is the probability of having exactly 5 defective parts, if it is selected from a sample of 100?  
(Round your answer upto 5 decimal places)

Choose... ▾

What is the rate of the occurrence in this distribution?

Choose... ▾

What is the variance of this distribution?

Choose... ▾

The number of industrial injuries per working week in a particular factory is known to follow a Poisson distribution with mean 0.5. Find the probability that,

in particular week there will be less than 2 accidents.

Choose... ▾

in particular week there will be more than 5 accidents.

Choose... ▾

in a 3 week period there will be no accidents.

Choose... ▾



Next page

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

Find the probability that during 30 minutes period the number of patients arriving at the hospital accident and emergency department is ,

Exactly 7 ?

Choose... ▾

At least 10

Choose... ▾

[Next page](#)

The probability of an event A and B ( $\Pr(A \cap B)$ ) to occur, equals

Select one:

- $\Pr(A) \times \Pr(B)$
- $\Pr(A) + \Pr(B)$  if A and B are mutually exclusive
- $\Pr(A) / \Pr(B)$
- $\Pr(A) + \Pr(B)$  even if A and B are not mutually exclusive
- None of the above

Find the outliers, if any, for the following data set

10.2, 14.1, 14.4, 14.4, 14.4, 14.5, 14.5, 14.6, 14.7, 14.7, 14.7, 14.7, 14.9, 15.1, 15.9, 16.4

Hint: Outlier is defined as a value  $x$ , holding the following conditions.

$x > Q3 + 1.5 \times (\text{Inter Quartile Range})$

$x < Q1 - 1.5 \times (\text{Inter Quartile Range})$

Is "10.2" an Outlier?

Is "16.4" an Outlier?

on - 2021



x

netexam.slit.lk/mod/quiz/attempt.php?attempt=91854&cmid=2476&page=9



YouTube



Maps

# NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

Assuming that the weekly demand for a video recorder is a poisson variable  
the shop sells

- at least 3 in a week.
- 0.57681
- at most 7 in a week.
- 0.9881
- more than 20 in a month.
- 0.0116

Type here to search





# NetExam

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Dashboard Examinations Lockdown Browser Practice Test

### Question 10

Not yet answered  
Marked out of 1.00

Flag question

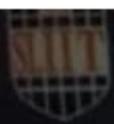
The statistic NOT required for a box plot is.

Select one:

- Mean
- 1st quartile
- Median
- 3rd quartile
- None of the above

Type here to search

DELL



Question 9

Not yet answered

Marked out of  
3.00

Flag question

Verbal SAT test scores  $X$ , for which the mean is 500 and the standard deviation is 100, assume to have a normal distribution. Find the probability that verbal SAT test score is less than 650.

Select one:

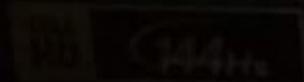
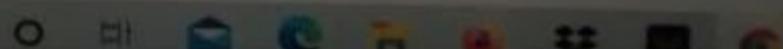
- 0.93319
- 0.98819
- 0.88319
- 0.76319
- 0.92576



Next page



Type here to search



**Question 18**

Not yet answered

Marked out of  
1.00

Flag question

The below transformation is applied to a data set

$$Y = 3X + 4$$

Where X is old data and Y is New data. If the variance of the old data set is 5. The variance of the new data set is,

Select one:

- 49
- 5
- 9
- 45
- None of the above

[Next page](#)

Quiz

Finish attempt

Time left 00:00

|    |    |
|----|----|
| 1  | 2  |
| 9  | 10 |
| 17 | 18 |
| 1  | 1  |

A person's hand is visible on the right side, holding a black laptop keyboard. The laptop screen displays a test page from "NetExam" titled "Population vs Sample".

**Population**

- A subset of the population
- Smaller Size - n
- Statistics
- Population Total - N
- Parameters

**Sample**

- A subset of the population
- Smaller Size - n
- Statistics
- Population Total - N
- Parameters

The test page contains the following questions:

Q1. If you block to carry off a tree (block down all of the branches) of the time. Assuming that all trees are independent and identical what is the probability for them to stand two decades out of four trees?

John tree.

100%

200%

250%

300%

None of the above

Next page

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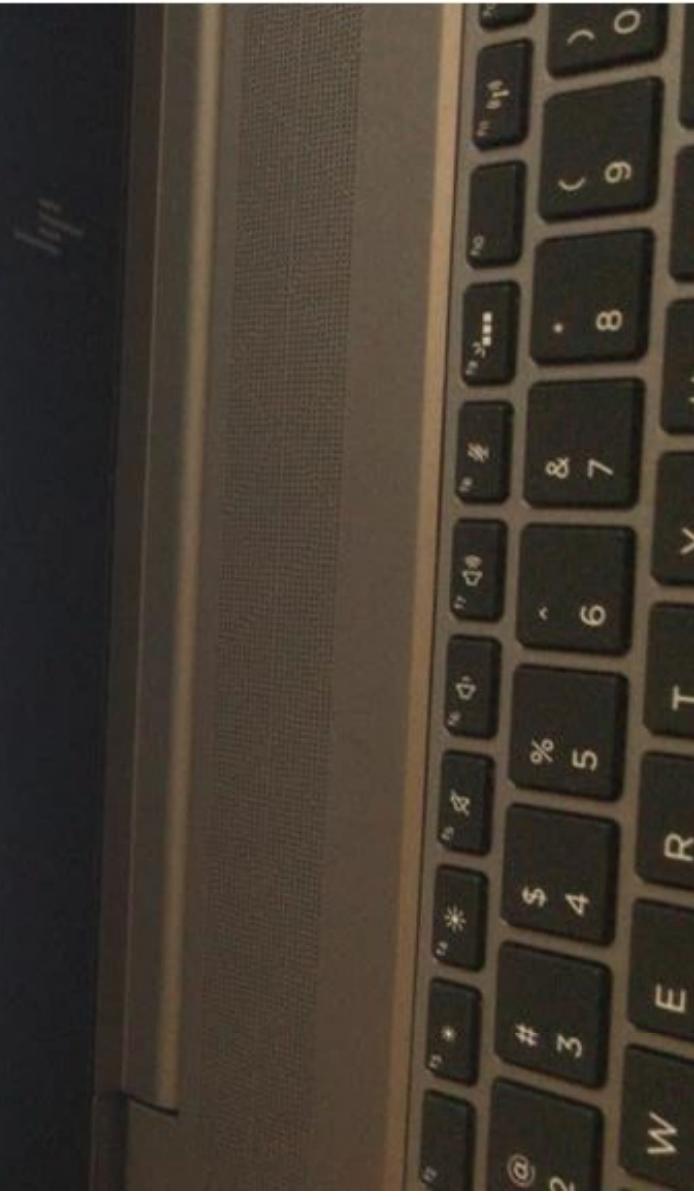
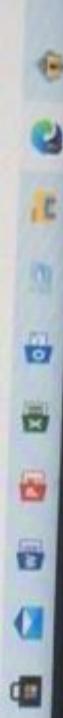
Examinations Lockdown Browser Practice Test

8 answered  
out of  
question

Select one:

- 0.47725
- 0.74425
- 0.74725
- 0.27745
- 0.87725

Type here to search





### Question 12

yet answered  
ked out of

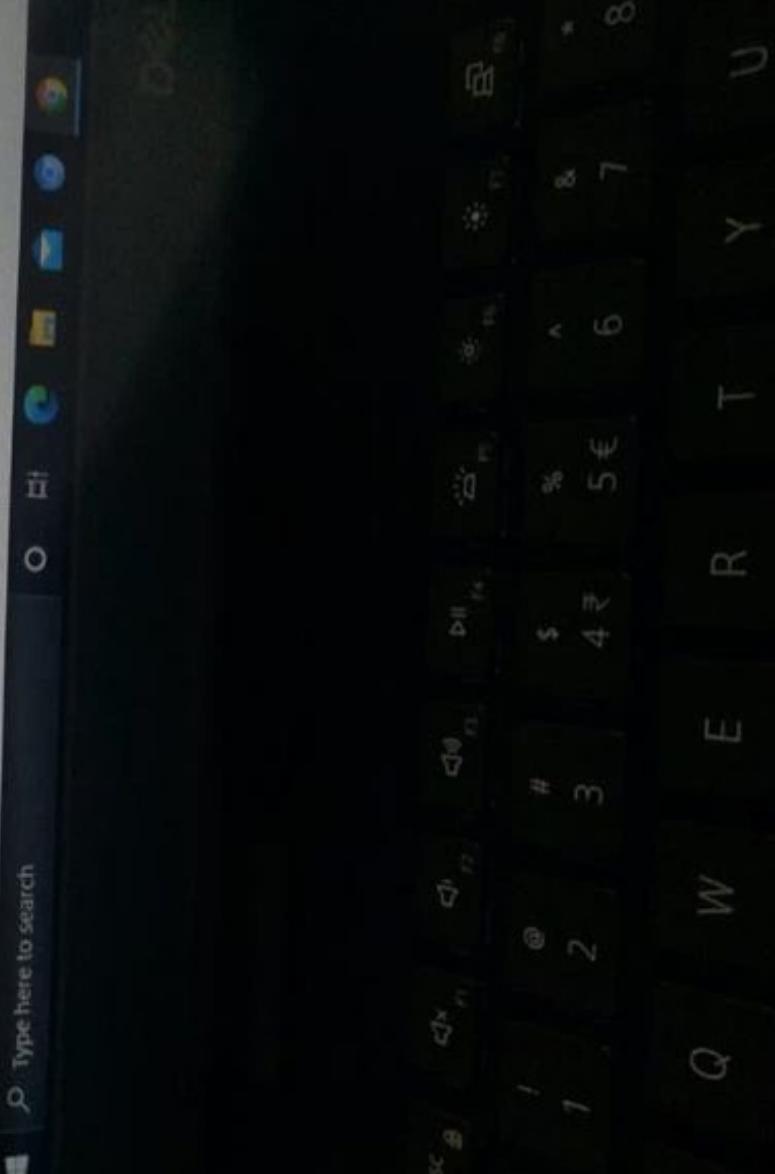
Flag question

Consider the following probability  
 $P(X=x) = (1/12)^x$  for  $x=3,4,5$   
Find the expected value

Select one:

- 3
- 0.3
- 4.28
- 2.5
- None of the above

Type here to search



x Course: Exam Navigator x NetExam: 2nd Year x Midterm

All applications - G... Inbox - rashinthehe... CourseWeb | Sri La... Login Signup Account

zoom.us/lit/k/mod/quiz/attempt.php?attempt=921448&cmid=2476&page=11

### Examinations Lockdown Browser Practice Test

Number of Floors

| Stems | Leaves                        |
|-------|-------------------------------|
| 1     | 11 12 13 14 15 16 17          |
| 2     | 21 22 24 25 27 28 29 29       |
| 3     | 30 30 31 32 32 33 33 34 36 38 |
| 4     | 40 41 43 46 47 48 49 49       |

Key: 1 | 1 means 11

Number of Floors

| Stems | Leaves            |
|-------|-------------------|
| 1     | 12 23 33 56 67    |
| 2     | 11 24 57 88 99    |
| 3     | 00 11 22 33 46 88 |
| 4     | 01 36 78 99       |

Key: 1 | 1 means 11

Number of Floors

| Stems | Leaves               |
|-------|----------------------|
| 1     | 11 12 13 15 16 17    |
| 2     | 21 22 24 25 27 28 29 |
| 3     | 30 31 32 33 34 36 38 |
| 4     | 30 31 33 36 37 38 39 |

Key: 1 | 1 means 11

None of the above

Here to search



ASUS VivoBook





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# NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Browser Practice Test

it20184612 Pt

1 Let A and B be two disjoint (mutually exclusive) events and  $P(A) = P(B) = 1/3$ . The probability that both of them will occur is:

Select one:  
 2/3  
 1/3  
 1/6  
 0  
 None of the above

Next page

Dell

15  
answered  
out of  
question

Let A and B be events with  $P(A^C) = 1/2$ ,  $P(A \cup B) = 3/4$ ,  $P(A | B) = 1/3$  and  $P(B^C) = 5/8$  where  $A^C$  is the complement of A. Then  $P(A \cap B^C)$  is:

Select one:

- 1/8
- 3/8
- 6/8
- 7/8
- None of the above

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# NetExam

Sri Lanka Institute of Information Technology

Examinations Lockdown Brower Practice Test

Question 14

Select the most appropriate solution for the three blanks in the given statement.

The Statistical methods may be described as methods for drawing conclusions about \_\_\_\_\_ based on \_\_\_\_\_ computed from the \_\_\_\_\_.

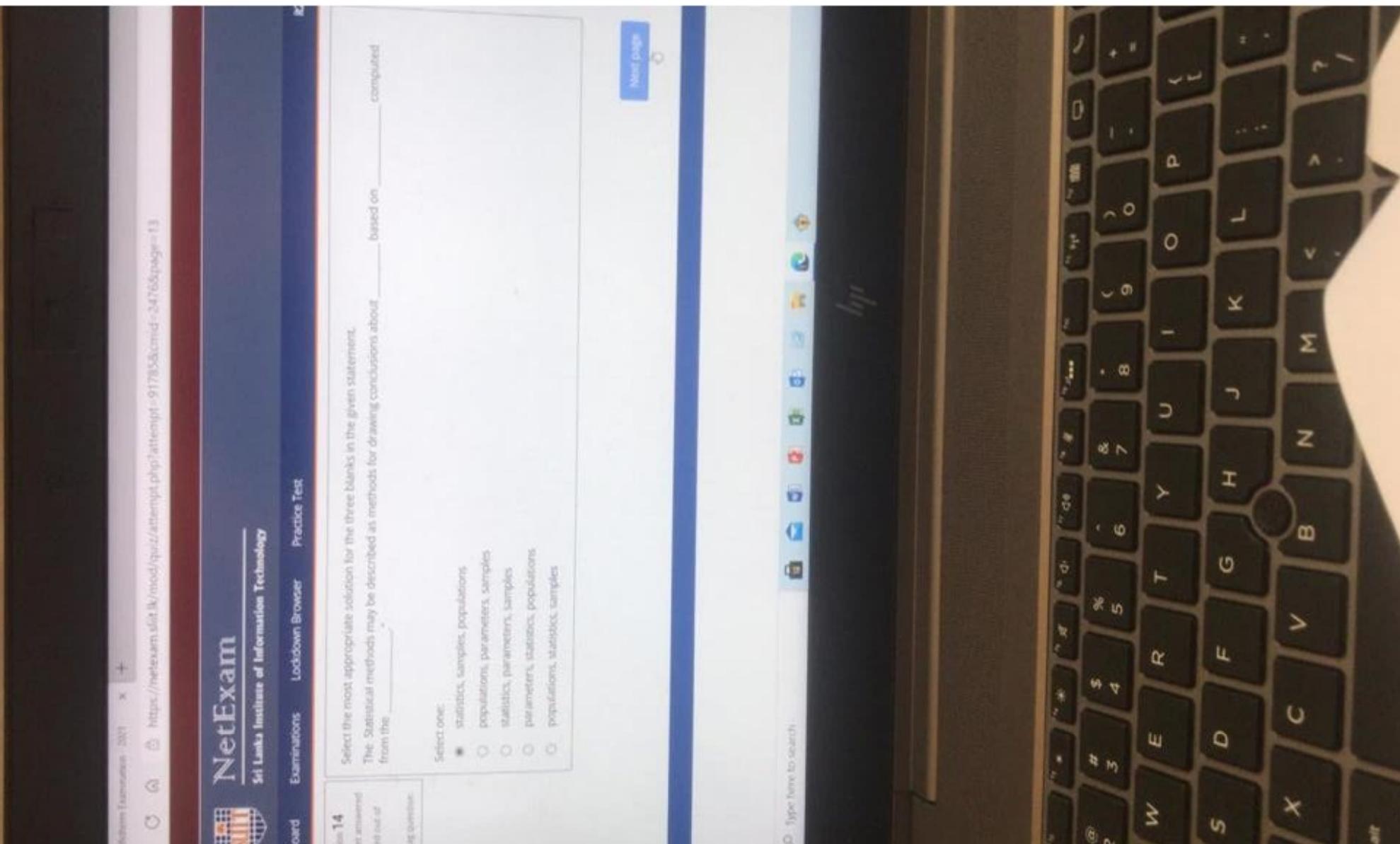
Select one:

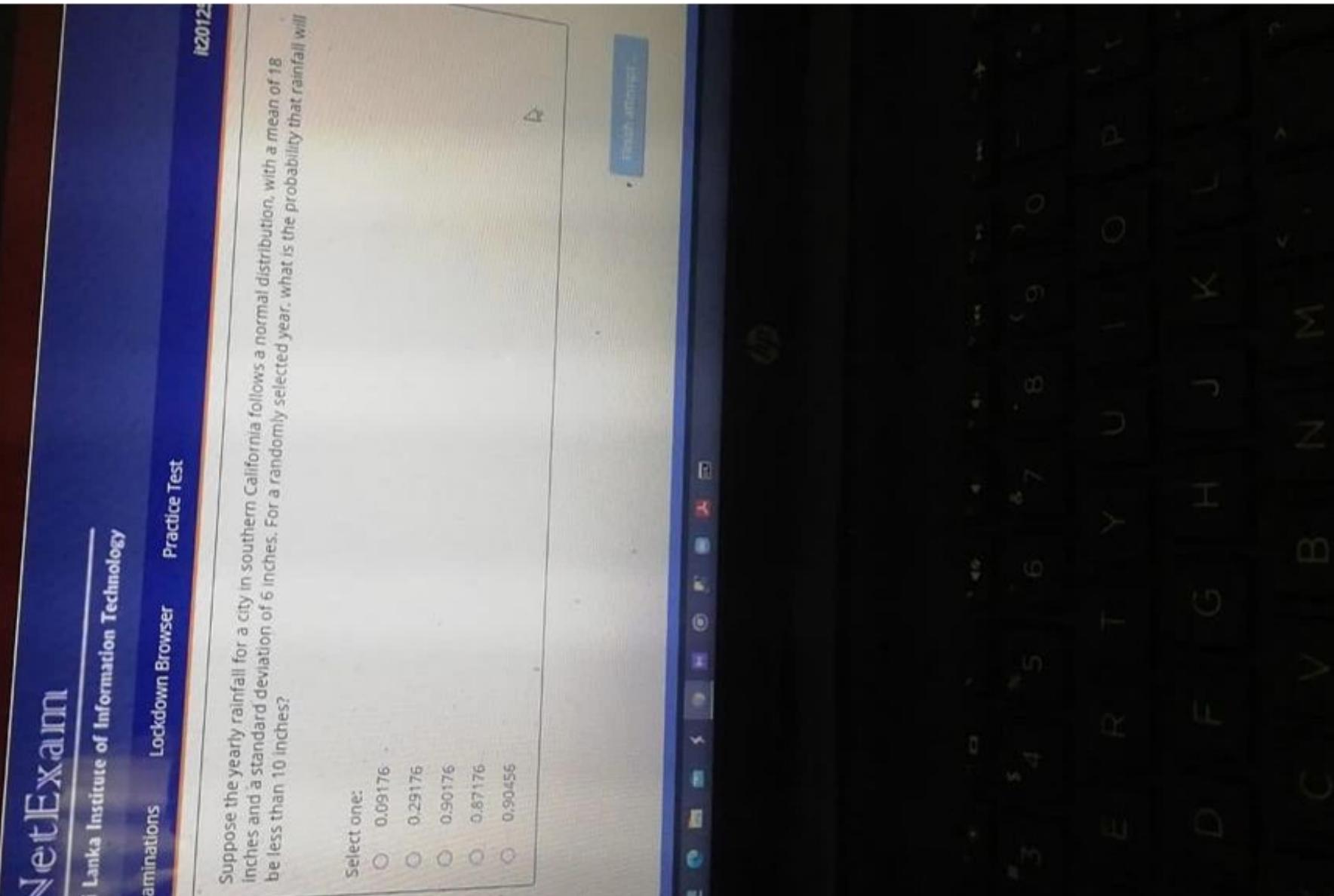
- Statistics, samples, populations
- populations, parameters, samples
- statistics, parameters, samples
- parameters, statistics, populations
- populations, statistics, samples

Next Page

Search

Type here to search:





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 p



The probability of a machine producing a defective part is 0.04.

What is the probability of having exactly 5 defective parts, if it is selected from a sample of 100? (Round your answer upto 5 decimal places)

What is the rate of the occurrence in this distribution?

What is the variance of this distribution?

Choose... ▾

Choose... ▾

Choose... ▾

Next page



Question 14

Not yet answered

Marked out of  
3.00

Flag question

In a district, the probability of having a power cut in a house will be 0.003.

What is the probability that 10 houses having the power cut, out of 1000 houses in this district? (Give your answer up to 5 decimal places)

Choose... ▾

What is the variance of this distribution?

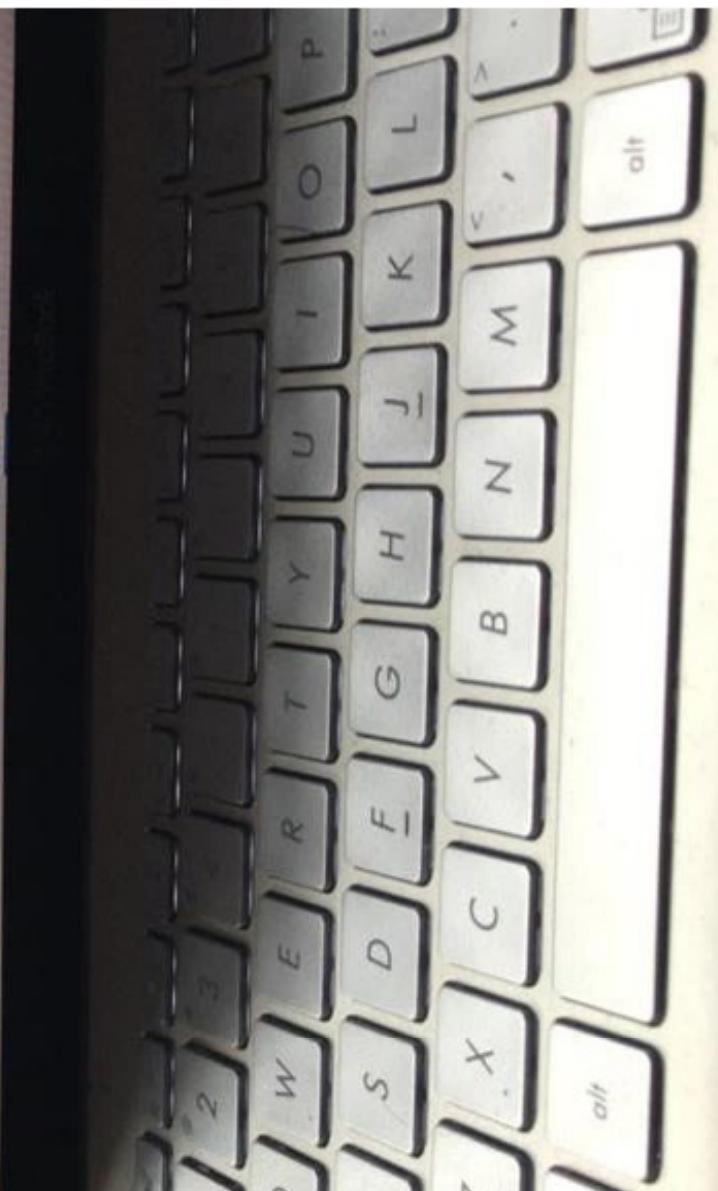
Choose... ▾

What is the rate of the occurrence in this distribution?

Choose... ▾

Next page

| NetExam  |                  |
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| Lockdown Browser   | Practice Test    |
| Modern Examination - 2021  | X                |
| NetExam Test View  | X                |
| Course Exam Manager  | X                |
| All registration - G...  | +                |
| exam.dat.k/mod/quiz/attempt.php?attempt=9214&attemptid=24768&page=11 | +                |
| CourseWeb Sri L...   | X                |
| Login Signup   | X                |
| Account Panel Layout   | X                |
| Google 65000   | X                |





Question 17

Not yet answered

Marked out of

0.00

Flag question

Each year, ratings are compiled concerning the performance of new cars during the first 90 days of use. The cars have been categorized according to whether a car needs warranty related repair or not (yes or no) and the country in which the company manufacturing a car is either Japan or Malaysia. Based on data collected for the last two years, the probability that a new car needs a warranty repair is 0.04. The probability that the car was manufactured by Malaysia is 0.60. The probability that a new car needs a warranty repair and was manufactured in Malaysia is 0.025.

What is the probability that a new car selected at random need a warranty related repair given that it is manufactured in Japan.  
(Keep the final answer in 4 decimal places)

Answer:

Next page

## Quiz navigation

Finish attempt...

Time left 0:08:51

|    |    |    |    |    |
|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  |
| 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 |



tion 12

yet answered

ked out of

Flag question

To be an outlier for the following data set, data points should lie between,  
10.2, 14.1, 14.4, 14.4, 14.4, 14.5, 14.5, 14.6, 14.7, 14.7, 14.7, 14.7, 14.9, 15.1, 15.9, 16.4

Hint: Outlier is defined as a value  $x$ , holding the following conditions.

$$x > Q3 + 1.5 \times (\text{Inter Quartile Range})$$

$$x < Q1 - 1.5 \times (\text{Inter Quartile Range})$$

Lower bound

Choose... ▾

Upper bound

Choose... ▾



it20178918 Tharuka Sachintha



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Examinations

Lockdown Browser

Practice Test

it20178918 Tharuka Sachintha Prathibhan Map

Question 19

Not yet answered

Marked out of

0.00

Flag question

When Joe bowls, he can get a strike (knock down all of the pins) 60% of the time. Assuming that all trials are independent and identical what is the probability for him to bowl zero strikes out of four tries?

Select one:

- 512/10000
- 256/1000
- 256/10000
- 128/10000
- None of the above

Finish attempt

Quiz r

Finish attempt

Time left: 0:00

|    |    |
|----|----|
| 1  | 2  |
| 9  | 10 |
| 17 | 18 |
|    |    |

After studying a couple's family history, a doctor determines that the probability of any child born to this couple having a gene for disease X is 1 out of 4. If the couple has three children, what is the probability that exactly two of the children have the gene for disease X?

≡ Quiz naviga...

Finish attempt ...

Time left 0:06:18

|    |    |    |
|----|----|----|
| 1  | 2  | 3  |
| 9  | 10 | 11 |
| 17 | 18 | 19 |
|    |    |    |

Select one:

- 9/64
- 10/64
- 12/64
- 7/64
- None of the above

[Next page](#)

NetExam  
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Lockdown Browser

Practice Test

Each year, ratings are compiled concerning the performance of new cars during the first 90 days of use. The cars have been categorized according to whether a car needs warranty related repair or not (yes or no) and the country in which the company manufacturing a car is either Japan or Malaysia. Based on data collected for the last two years, the probability that a new car needs a warranty repair is 0.60. The probability that a new car needs a warranty repair is either Japan or Malaysia is 0.60. The probability that a new car needs a warranty repair and was manufactured by Malaysia is 0.025.

What is the probability that a new car selected at random needs a warranty related repair given that it is manufactured in Japan?  
(Keep the final answer in 4 decimal places)

20177232 Perera.L.D.S It20177232

≡ Quiz navigation

finish attempt

Time left 0:11:37

The conditional probability of x given y is:

Select one:

- the probability that x and y occur jointly
- the probability that y occurs if x has already occurred
- the probability that x occurs if y has already occurred
- the marginal probability of x minus the marginal probability of y
- None of the above

|    |    |
|----|----|
| 1  | 2  |
| 9  | 10 |
| 17 | 18 |

Verbal SAT test scores  $X$ , for which the mean is 500 and the standard deviation is 100, assume to have a normal distribution. Find the probability that verbal SAT test score is in between 500 and 700.

Select one:

- 0.47725
- 0.74425
- 0.74725
- 0.27745
- 0.87725



Finish attempt ...

Each year, ratings are compiled concerning the performance of new cars during the first 90 days of use. The cars have been categorized according to whether a car needs warranty related repair or not (yes or no) and the country in which the company manufacturing a car is either Japan or Malaysia. Based on data collected for the last two years, the probability that a new car needs a warranty repair is 0.04. The probability that the car was manufactured by Malaysia is 0.60. The probability that a new car needs a warranty repair and was manufactured in Malaysia is 0.025.

what is the probability that a new car selected at random need a warranty related repair given that it is manufactured in Japan.

(Keep the final answer in 4 decimal places)

Answer:

Next page

≡

Finis

Time

1

9

17

A machine produces parts that are either good (90%), slightly defective (2%), or obviously defective (8%). Produced parts get passed through an automatic inspection machine, which is able to detect any part that is obviously defective and discard it. The machine passes the part if it is not obviously defective. If it makes through the inspection machine and get shipped, what is the probability that it is a good quality part?

Select one:

- 0.9
- 0.978
- 0.742
- 0.685
- None of the above

≡ Quiz na

Finish attempt

Time left 0:10:0

|    |    |    |
|----|----|----|
| 1  | 2  | 3  |
| 9  | 10 | 11 |
| 17 | 18 | 19 |

Next page

**Question 15**

Not yet answered

Marked out of  
1.00

Flag question

The number of floors of each building in a particular city is recorded. Make a stem-and-leaf plot of the data.

| Number of Floors |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 24               | 38 | 46 | 16 | 28 | 31 | 12 | 27 | 32 | 49 | 33 | 12 | 38 | 34 | 48 | 22 | 36 | 29 | 47 | 41 |
| 49               | 30 | 21 | 17 | 40 | 13 | 32 | 15 | 31 | 21 | 13 | 16 | 43 | 33 | 30 | 25 | 28 | 29 | 13 | 11 |

Select one:

- 
- Number of Floors

| Stems | Leaves        |
|-------|---------------|
| 1     | 1 2 3 5 6 7   |
| 2     | 1 2 4 5 7 8 9 |
| 3     | 0 1 2 3 4 6 8 |
| 4     | 0 1 3 6 7 8 9 |

Key: 1 | 1 means 11

- 
- Number of Floors

| Stems | Leaves                           |
|-------|----------------------------------|
| 1     | 11 12 12 13 13 13 15 16 16 17    |
| 2     | 21 21 22 24 25 27 28 28 29 29    |
| 3     | 30 30 31 31 32 32 33 33 34 38 38 |



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Each year, ratings are compiled concerning the performance of new cars during the first 90 days of use. The cars have been categorized according to whether a car needs warranty related repair or not (yes or no) and the country in which the company manufacturing a car is either Japan or Malaysia. Based on data collected for the last two years, the probability that a new car needs a warranty repair than the car was manufactured by Malaysia is 0.62. The probability that a new car needs a warranty repair and was manufactured in Malaysia is 0.25.

What is the probability that a new car selected at random need a warranty related repair given that it is manufactured in Japan.  
[Keep the final answer in 4 decimal places]

Answer

Next page

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Home My search

