Moodle

NetExam

Sri Lanka Institute of Information Technology

Question 1

Not yet answered

Marked out of 3.00

Flag question

What is the correct statements regarding Confidence Interval.

a) It calculates a possible range to a parameter

b) Always width of the confidence interval for population mean is decided by sample mean, confidence level, population variance and sample size

c) When we increase the sample size Confidence interval get reduced.

d) When we increase the sample size confidence interval get wide

Select one:

- Only (a), (b) and (d)
- Only (a), (b) and (c)
- Only (a)
- Only (a) and (c)
- Only (a) and (b)

Quiz navigation

Finish attempt ...

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3
nswered
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uestion

For a random sample of 22 men, the average blood pressure is 123 mm Hg, and the sample standard deviation is 4. What is the 95% confidence interval for the true mean?

Select one:

- (121.23, 124.77)
- (125.53, 127.47)
- (122.41, 126.77)
- (119.31, 120.41)
- (120.26, 125.87)

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Question 2

Not yet answered

Marked out of 1.00

Flag question

In a random sample of 800 students in Gampaha schools, 76% were in favor of shorter hours at the school library (that is estimated p (p hat)= 0.76). What is the standard error of the sample proportion?

Select one:

- 0.76
- 0.276
- 0.001
- 0.015
- 0.8

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A group of researchers trying to find the average number of books sell in a day from a particular company. Past worker state that averagely 15 customers made a business on a day with a standard deviation of 2. But Research group think that this number is lower than this value. The group of researchers observe the number of customers who made business, for a month and they got the average as 17. What is the correct statement regarding this experiment?

let μ = average number of books sell in a day

Select one:

- Null hypothesis is $\mu \leq 17$ Vs. Alternative hypothesis is $\mu > 17$
- Null hypothesis is $\mu \geq 17$ Vs. Alternative hypothesis is $\mu < 17$
- Null hypothesis is $\mu \geq 15$ Vs. Alternative hypothesis is $\mu < 15$
- Null hypothesis is $\mu \leq 15$ Vs. Alternative hypothesis is $\mu > 15$
- None of the above

Quiz navigation

Finish attempt ...

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Question 5

Not yet answered

Marked out of 4.00

Flag question

For a random sample of 40 men, the average blood pressure is 123 mm Hg, and the sample standard deviation is 4. What is the margin of error at 95% confidence?

Select one:

- 1.04
- 0.196
- 1.24
- 2.04
- 1.56

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Quiz navigation

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#17113328 Senevirathne S.M.A

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Question **4**

Not yet answered

Marked out of 3.00

Flag question

From a past research, it has been found that the average mileage driven by a certain car before the first tyre replacement is 10,000 km. A researcher wants to check whether new mileage is less than this value. He randomly take 25 cars and mean and standard deviation were measured as 9580 and 1021 respectively. What is the value of the test statistic to test this hypothesis ?

Select one:

- 2.465
- 2.057
- 2.945
- -2.057
- -2.465

Quiz navigation

Finish attempt ...

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