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Courses » Business Statistics

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Quiz : Assianment 6

Assignment 6

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-13, 23:59 IST.**

1) Interval estimates is also called as 1 point

- a) Confidence level
- b) Confidence interval
- c) Population level
- d) Population interval

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Confidence interval

2) How can we define Confidence Interval (CI)? 1 point

- a) $CI = \text{Point Estimate} - (\text{Critical Value})(\text{Mean})$
- b) $CI = \text{Point Estimate} - (\text{Standard Error})(\text{Mean})$
- c) $CI = \text{Point Estimate} - (\text{Critical Value})(\text{Standard Error})$
- d) $CI = \text{Point Estimate} - (\text{Variance})(\text{Standard Error})$

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) $CI = \text{Point Estimate} - (\text{Critical Value})(\text{Standard Error})$

3) Which of the following provide more information about a population characteristics? 1 point

- a) Interval Estimate
- b) Point Estimate
- c) Both provide same information
- d) None of the above

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a) Small Sample

b) Large Sample

c) Medium Sample

d) Not dependent on sample

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Large Sample

5) The number of observations that are free to vary after sample mean has been calculated is **1 point** called

a) Moment of freedom

b) Ratio of freedom

c) Degree of freedom

d) Interval of freedom

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) Degree of freedom

6) Suppose you want to estimate the average age of all Boeing 727 airplanes now in active **1 point** domestic U.S. service. You want to be 95% confident, and you want your estimate to be within two years of the actual figure. The 727 was first placed in service about 30 years ago, but you believe that no active 727s in the U.S. domestic fleet are more than 25 years old. How large a sample should you take?

a) 45

b) 48

c) 38

d) 35

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 38

7) A psychologist, surveyed 150 top executives and found that 42% of them were unable to **0 points** add fractions correctly. Estimate the standard error of the proportion.

a) 10.54

b) 8.32

c) 2.33

d) 5.66

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) 5.66

8) Seven homemakers were randomly sampled, and it was determined that the distances they **1 point** walked in their housework had an average of 39.2 miles per week and a sample standard deviation of 3.2 miles per week. Construct a 95 % confidence interval for the population mean.

a) 42.521 ± 5.965

- b) 32.452 ± 2.852
- c) 39.200 ± 2.959
- d) 45.421 ± 7.965

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) 39.200 ± 2.959

9) Hewitt Associates conducted a national survey to determine the extent to which employers **1 point** are promoting health and fitness among their employees. One of the questions asked was, does your company offer on-site exercise classes? Suppose it was estimated before the study that no more than 40% of the companies would answer yes. How large a sample would Hewitt Associates have to take estimating the population proportion to ensure a 98% confidence in the results and to be within 0.03 of the true population proportion?

- a) 1448
- b) 1980
- c) 1220
- d) 2188

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) 1448

10) Which hypothesis is always assumed to be true? **1 point**

- a) Null
- b) Alternate
- c) Mix
- d) None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) Null

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