Question 1

The "least squares method" is used in

Options:

A- The central limit theorem

B- Calculating 2

C- Calculating 2 and s2

D- Calculating a best fit regression line.

Answer:

D

Question 2

The value for t, when making a two-tailed paired t test, with samples of 13 and alpha =0.05, is

Options:

A- 1.782

B- 2.179

C- 2.064

D- 1.711

Answer:

B

Question 3

Question Type: MultipleChoice

In nonparametric statistics:

. No assumptions are made concerning the distribution from which the samples are taken.

. The parameters of the distribution do not relate to the parameters of the sample.

. The sample and the distribution must have no parameters in common.

Options:

A- I only

B- II only

C- III only

D- II and III only

Answer:

A

Question 4

Question Type: **MultipleChoice**

The difference between setting alpha equal to 0.05 and alpha equal to 0.01 in hypothesis testing is

Options:

A- With alpha equal to 0.05, we are more willing to risk a type I error.

B- With alpha equal to 0.05, we are more willing to risk a type II error.

C- Alpha equal to 0.05 is a more 'conservative' test of the null hypothesis.

D- With alpha equal to 0.05, we are less willing to risk a type I error.

Answer:

A

Question 5

Question Type: MultipleChoice

If a sample size of 16 yields an average of 12 and standard deviation of 3, estimate the 95% confidence interval for the population (assume a normal distribution).

A. $10.40 \leq \mu \leq 13.60$
B. $10.45 \leq \mu \leq 13.55$
C. $10.53 \leq \mu \leq 13.47$
D. $10.77 \leq \mu \leq 13.23$

Options:
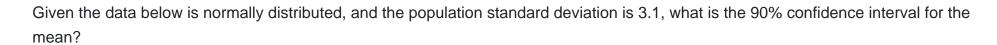
A- Option A

B- Option B

C- Option C

D- Option D

Answer:

A

Question 6

Question Type: **MultipleChoice**

Given the data below is normally distributed, and the population standard deviation is 3.1, what is the 90% confidence interval for the mean?

22, 23, 19, 17, 29, 25

Options:

A- 20.88 - 24.12

B- 20.42 - 24.59

C- 21.65 - 23.35

D- 17.4 - 27.6

Answer:

B

Question 7

Question Type: **MultipleChoice**

Given that the population standard deviation is 6.8, what sample size is required to be 90% confident that the estimated mean has an error less than 0.02?

Options:

A- 312,761

B- 189,859

C- 175,987

D- 152,083

Answer:

A

Question 8

Question Type: **MultipleChoice**

Which table should be used to determine a confidence interval on the mean when standard deviation is NOT known and the sample size is 10?

Options:

A- z

B- t

C- F

D- Chi-Square

Answer:

B

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