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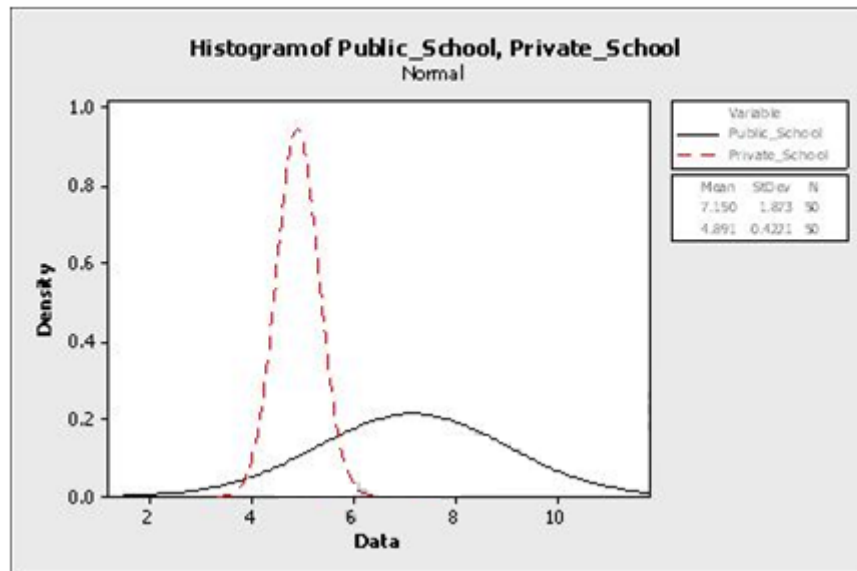
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Question 1

Question Type: MultipleChoice

The class score distribution of schools in a metropolitan area is shown here along with an analysis output. Comment on the statistical significance between the Means of the two distributions. Select the most appropriate statement.



Two-sample t for Private_School vs Public_School

	N	Mean	StDev	SE Mean
Private_School	50	4.891	0.422	0.060
Public_School	50	7.15	1.87	0.26

Difference = μ (Private_School) - μ (Public_School)

Estimate for difference: -2.259

99% CI for difference: (-2.985, -1.534)

T-Test of difference = 0 (vs not =): T-Value = -8.32 p-Value = 0.000 DF = 53

Options:

- A- The two class Means are statistically different from each other
- B- The two class Means statistically not different from each other
- C- Inadequate information on class Means to make any statistical conclusions
- D- A visual comparison shows that class Means are not statistically different

Answer:

A

Question 2

Question Type: MultipleChoice

A statistical test or Hypothesis Test is performed to reject or fail to reject a stated hypothesis and it converts the Practical Problem into a Statistical Problem.

Options:

- A- True
- B- False

Answer:

A

Question 3

Question Type: MultipleChoice

The Central Limit Theorem says that as the sample size becomes large the sample Mean distribution will form a Normal Distribution,
_____.

Options:

- A- If the Measurement System is properly calibrated
- B- When the data is collected accurately
- C- If the shape is evenly spread
- D- No matter what the shape of the population distribution of individuals

Answer:

D

Question 4

Question Type: MultipleChoice

From this list select the best example of Bias in Sampling.

Options:

- A- Testing the completeness of cooking a cake but the testers cannot agree on how to measure internal temperature
- B- Testing the sharpness of a razor blade while the sample of 500 are from the same model razor
- C- Testing the weight of participants at a wrestling event and only measuring those who finished second or better
- D- Testing a hand-held GPS models for durability using samples only from Nokia Model P120

Answer:

C

Question 5

Question Type: MultipleChoice

For a Normal Distribution as samples size increases the Range in Mean and Standard Deviation decrease relative to the Mean and Standard Deviation of the population.

Options:

A- True

B- False

Answer:

A

Question 6

Question Type: MultipleChoice

Some of the sources for different types of error that can be quantified using Statistical Analysis are which of these?

Options:

- A- Error in sampling
- B- Bias in sampling
- C- Error in measurement
- D- All of the above

Answer:

D

Question 7

Question Type: MultipleChoice

When the Inputs, X's, for your process are Normally Distributed about the Mean, the Outputs, Y's, will be Normally Distributed.

Options:

- A- True
- B- False

Answer:

B

Question 8

Question Type: MultipleChoice

For a batch manufacturing process, while assessing short term process variation, which variation category(ies) should one need to focus on? (Note: There are 2 correct answers).

Options:

- A- Variation within consecutive pieces
- B- Variation among consecutive batches
- C- Variation among groups of pieces
- D- Variation among the completed product

Answer:

A, B

Question 9

Question Type: MultipleChoice

On a _____ one can see a pattern from the graphed points such that conclusions can be drawn about the largest family of Variation.

Options:

- A- Multi-Vari Chart
- B- Weighted Scale
- C- X-Y Matrix
- D- Poisson Chart

Answer:

A

Question 10

Question Type: MultipleChoice

Time is always the metric on the horizontal scale of a(n) _____ Chart.

Options:

- A- Pareto
- B- Xbar
- C- Multi-Vari
- D- NP

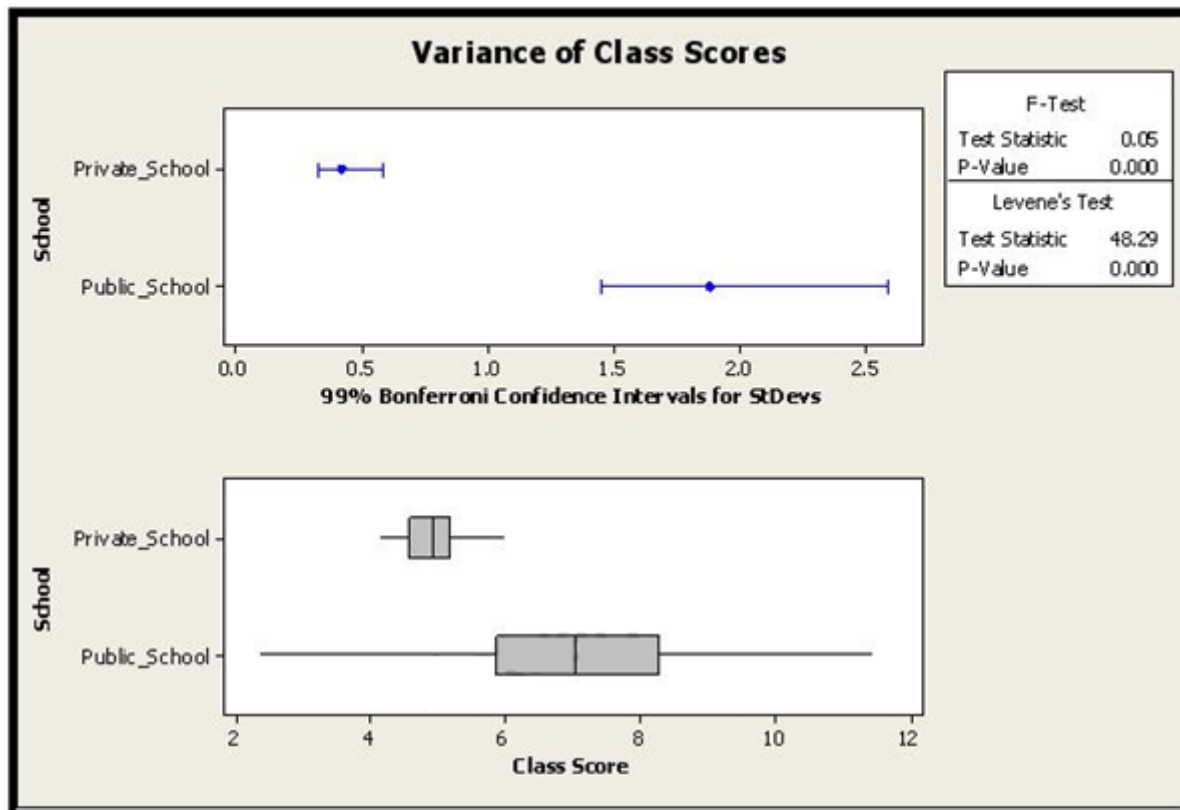
Answer:

C

Question 11

Question Type: MultipleChoice

From the variance F-test shown above, which of these conclusions is/are valid?



Test for Equal Variances: Class Score versus School

99% Bonferroni confidence intervals for standard deviations

School	N	Lower	StDev	Upper
Private_School	50	0.32753	0.42210	0.58233
Public_School	50	1.45338	1.87303	2.58404

F-Test (Normal Distribution)

Test statistic = 0.05, p-value = 0.000

Options:

- A-** The variance between the class score distribution is not significantly different
- B-** This test applies only to Normal Distributed data at 99 % confidence
- C-** The variance between the class score distribution is significantly different
- D-** There are not enough data points to make any statistical conclusions

Answer:

C

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