



**Free Questions for 20 by certscare**

**Shared by Carrillo on 29-01-2024**

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## Question 1

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**Question Type:** MultipleChoice

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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:**

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A- True

B- False

**Answer:**

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A

## Question 2

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**Question Type:** MultipleChoice

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

**Options:**

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

**Answer:**

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D

## Question 3

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**Question Type:** MultipleChoice

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

**Options:**

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A- True

B- False

**Answer:**

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B

## Question 4

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**Question Type: MultipleChoice**

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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:**

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A- Variation within consecutive pieces

B- Variation among consecutive batches

C- Variation among groups of pieces

D- Variation among the completed product

**Answer:**

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A, B

## Question 5

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**Question Type:** MultipleChoice

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

**Options:**

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**A-** Multi-Vari Chart

**B-** Weighted Scale

**C-** X-Y Matrix

**D-** Poisson Chart

**Answer:**

---

A

## Question 6

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**Question Type:** MultipleChoice

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

**Options:**

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

**Answer:**

---

C

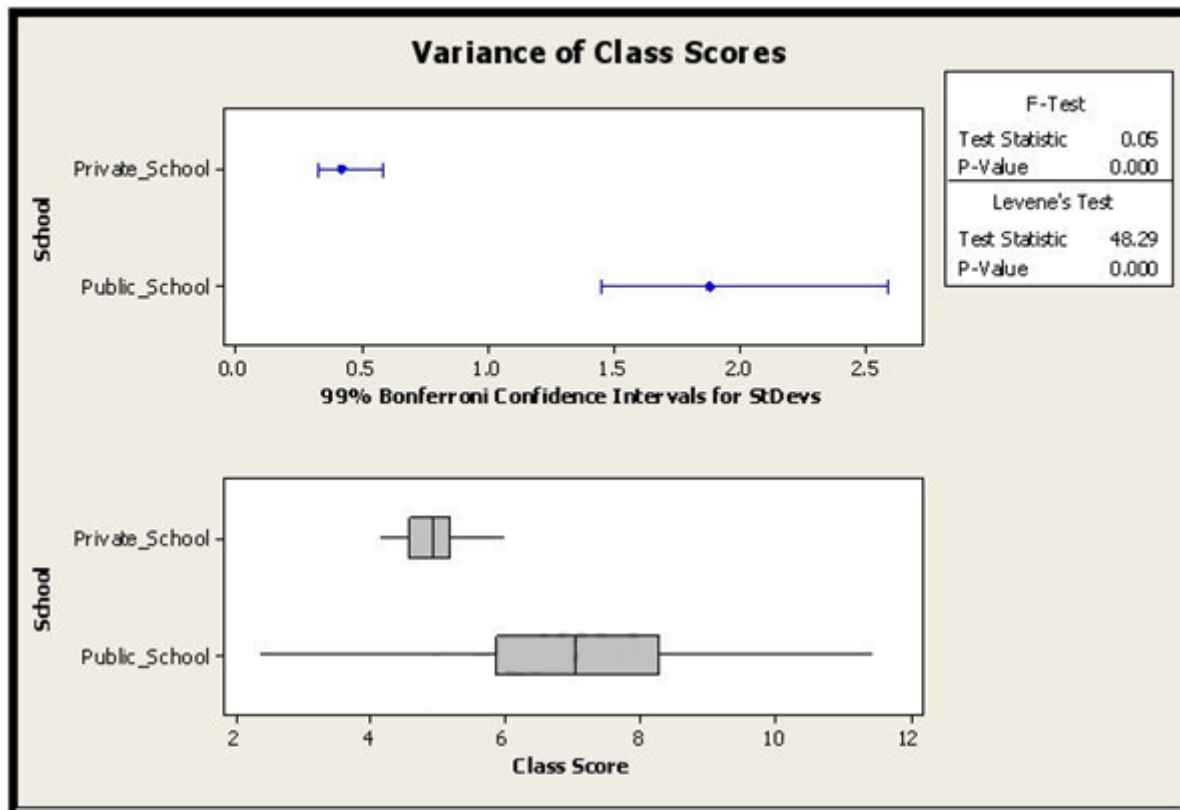
## Question 7

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**Question Type:** MultipleChoice

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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:**

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- 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:**

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C

## Question 8

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**Question Type:** MultipleChoice

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To establish a sample size that will allow the proper overlap of distributions we do which of these?

**Options:**

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- A- Multiply Alpha by 1.75
- B- Calculate one minus Beta
- C- Calculate Beta plus 2
- D- Multiply Beta by 3

**Answer:**

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B

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