LSSMBB Q&As

Lean Six Sigma Master Black Belt

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QUESTION 1

You have been asked to monitor daily production yields to determine if the process yield is in statistical control. Select the control chart best suited for this purpose.

A. C-chart

B. U-chart

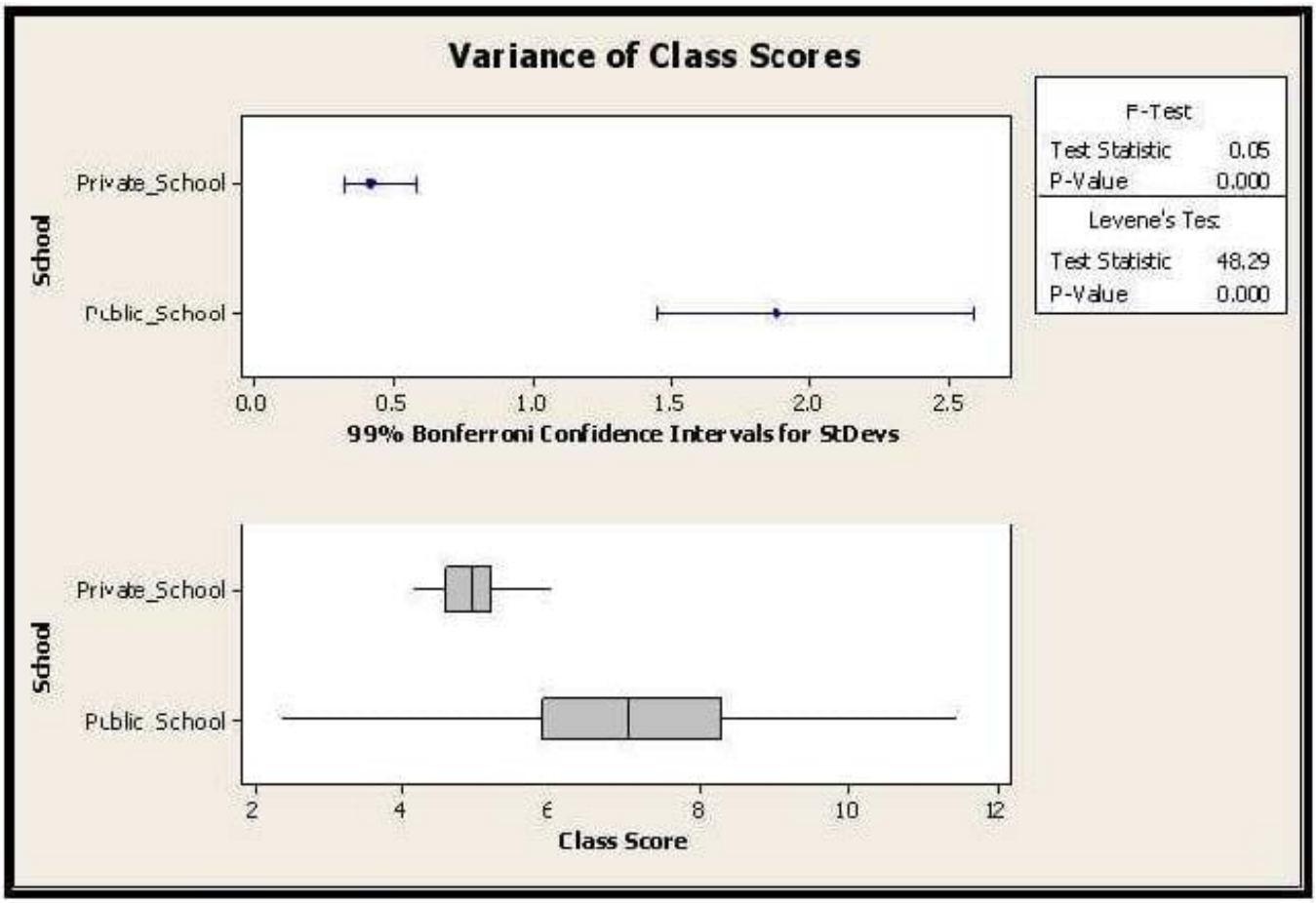
C. X and R chart

D. P-chart

Correct Answer: D

QUESTION 2

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

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

Correct Answer: C

QUESTION 3

For the data shown here which statement(s) are true? (Note: There are 2 correct answers).

Grade A	Grade B	Grade C
0.917	1.1	0.63
0.68	0.173	4.17
1.74	0.24	0.6
0.3	0.67	0.84
0.33	6.94	0.22
4.13		

A. With 95% confidence, we cannot conclude if the samples are from three Normal Distributions.

B. With greater than 95% confidence, we conclude the samples are from Non-normal Distributions.

C. If we wanted to compare the Central Tendencies of these three samples we would use the one way ANOVA test.

D. If we wanted to compare the Central Tendencies of these three samples we could use Mood\\'s Median test.

Correct Answer: BD

QUESTION 4

A Belt working in a supply chain environment has to make a decision to change suppliers of critical raw materials for a new product upgrade. The purchasing manager is depending on the Belt\\'s effort requiring that the average cost of an internal critical raw material component be less than or equal to $4,200 in order to stay within budget. Using a sample of 35 first article components, a Mean of the new product upgrade price of $4,060, and a Standard Deviation of $98 was estimated. Select the answer that best states the Practical Problem.

A. If the average cost per component is $4,200 or less, then the purchase manager will introduce the new product upgrade with new components.

B. If the average cost per component is greater than $4,200, then the purchase manager will introduce the new product upgrade with new components.

C. Only if the average cost per product upgrade is $4,060, will the purchase manager introduce new product upgrades with new components.

D. If the average cost per new product upgrade is less than $180, then the purchase manager will introduce the new product upgrade with new components.

Correct Answer: C

QUESTION 5

Customers make their decisions based on Features, Integrity (of the seller) Delivery and _____?

A. Color

B. Expense

C. Season

D. None

Correct Answer: B