LSSMBB Q&As

Lean Six Sigma Master Black Belt

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QUESTION 1

An operator is measuring the distance between two points. Which is most likely to be influenced by the operator?

A. Precision of the measurement

B. Accuracy of the measurement

C. Calibration of the instrument

D. All of these answers are correct

Correct Answer: D

QUESTION 2

Control Charts were developed by Dr. Shewhart to track data over time. To detect Special Cause variation the Control Charts use which of these?

A. Data shift analysis

B. Outlier analysis methods

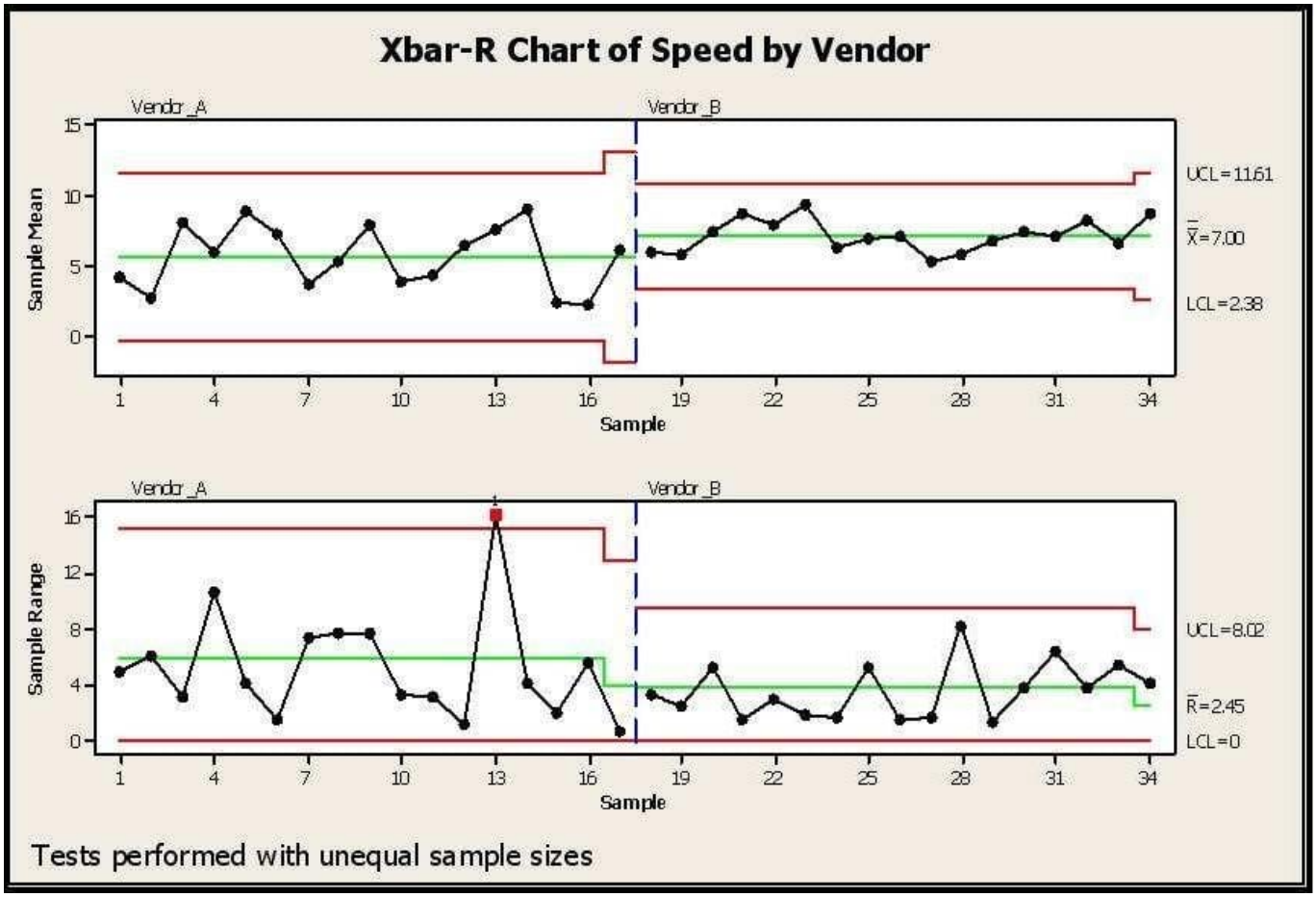
C. Center Line and Control Limits

D. None of the above

Correct Answer: C

QUESTION 3

SPC Charts are used extensively in different business and decision-making environments. In this example a vendor is being selected based on speed of delivery. Which of the conclusions would help you pick a vendor for your needs regarding lead-time of delivery from your vendors? (Note: There are 4 correct answers).



A. Vendor A with a much shorter lead time in delivery

B. Vendor B as it has a better consistency (lower variance) on lead time

C. Vendor B since Vendor A shows a situation out of control as shown in red

D. Vendor B since the Control Limits are much narrower than Vendor A

E. Vendor B has higher lead time, but a process with much narrower Control Limits

Correct Answer: BCDE

QUESTION 4

In Logistic Regression, an Odds Ratio of 1 means?

A. One group is more likely than the other

B. Both groups are very likely

C. No association between groups - they are equally likely D. There is a significant relationship between groups

Correct Answer: C

QUESTION 5

Cost of Poor Quality (COPQ) can be classified as Visible Costs and Hidden Costs. All these items are Hidden Cost except _____.

A. Lost Customer Loyalty

B. Returns

C. Time Value of Money

D. Late Delivery

Correct Answer: B

QUESTION 6

When evaluating residuals from a regression model, a Black Belt discovers that she has outliers in the data. What is best course of action for the outliers?

A. Ignore them. They should not impact the model.

B. Omit them.

C. Explore the source of the outlier.

D. Transform the independent variable and re-fit the model.

Correct Answer: C

QUESTION 7

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.

A. True

B. False

Correct Answer: A

QUESTION 8

The following is the best description for the purpose of a process map:

A. It is a tool used only after a Six Sigma project is completed

B. It is a tool to convert customer requirements to a set of measurable technical requirements with target values.

C. It is a tool for identifying alternative solutions or concepts

D. It is a tool used to identify all major steps, outputs, and inputs to look for potential causes of a problem.

Correct Answer: D

QUESTION 9

Sally and Sara sell flower pots at their garage sale. Sally motivates Sara mentioning that they will sell a minimum of 22 pots per day if the outside temperature exceeds 60o F. From a sample, whose population is assumed to follow a Normal Distribution, taken for 30 days at 60 degrees or more an average of 18.2 pots per day were sold with a Standard Deviation of 0.9 pots. What is the Z value for this sales process?

A. 1.23

B. 1.62

C. 2.11

D. 4.22

Correct Answer: D

QUESTION 10

Using this partial Z Table, how many units from a month\\'s production run are expected to not satisfy customer requirements for the following process? Upper specification limit: 7.2 Lower specification limit:

4.3 Mean of the process: 5.9 Standard Deviation: 0.65 Monthly production: 450 units

A. 3

B. 7

C. 10

D. 12

Correct Answer: C

QUESTION 11

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 12

When a Belt properly analyzes the results of an experiment he must examine the Residuals in expectation of finding all of the following except _____.

A. Some Residuals higher than others

B. Some Residuals lower than others

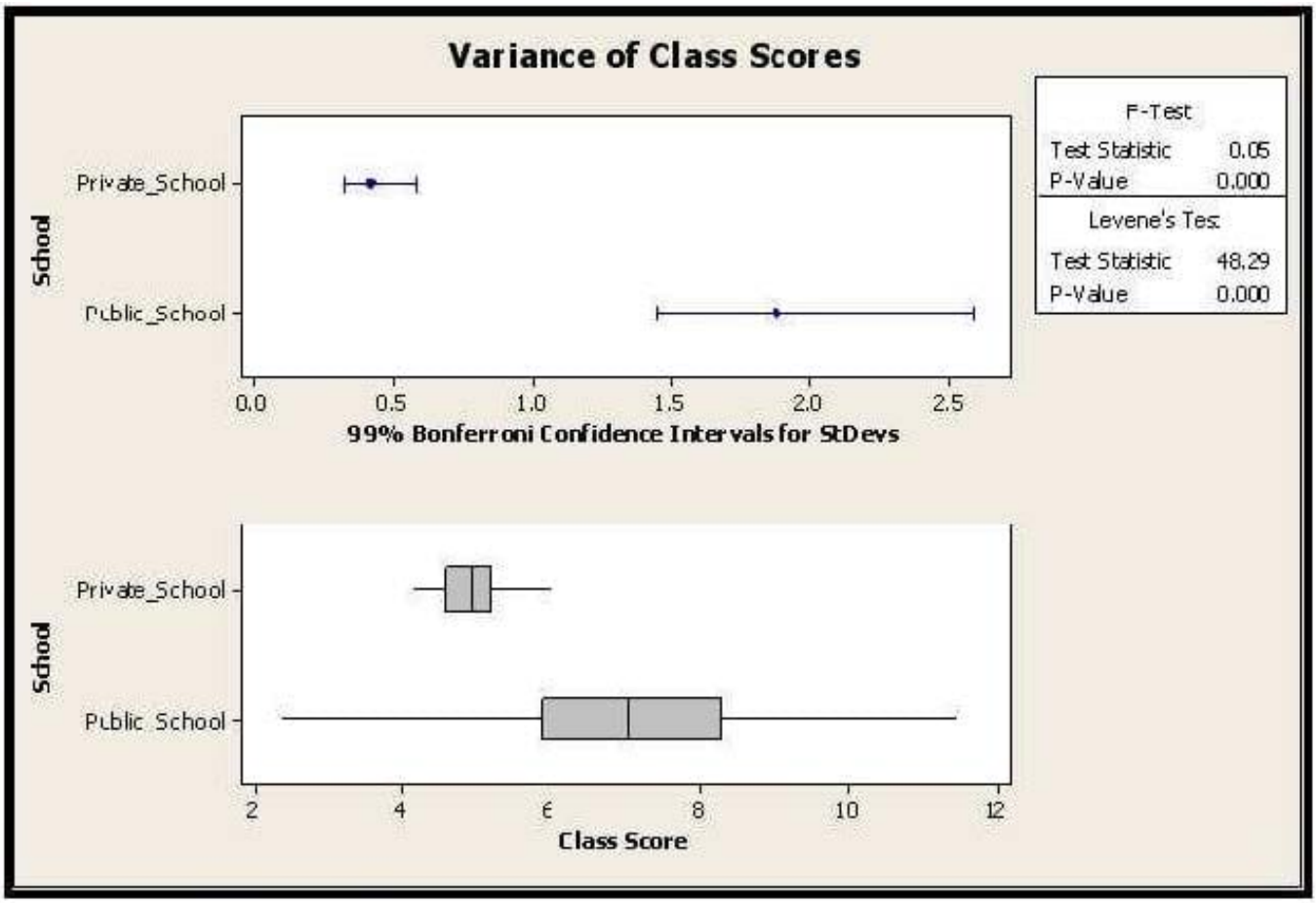
C. All Residuals within 2 Standard Deviations of the Mean

D. Residuals will represent a Linear Regression

Correct Answer: D

QUESTION 13

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 14

The relationship between a response variable and one or more independent variables is investigated and modeled by use of which of these?

A. X-Y Matrix

B. Baldridge Assessment

C. Critical X\\'s Definition

D. Analysis of Variance (ANOVA)

Correct Answer: D

QUESTION 15

Sally and Sara sell flower pots at their garage sale. Sally motivates Sara mentioning that they will sell a minimum of 15 pots per day if the outside temperature exceeds 60o F. From a sample, whose population is assumed to follow a Normal Distribution, taken for 30 days at 60 degrees or more an average of 13.6 pots per day were sold with a Standard Deviation of 0.7 pots. For the sales accomplished above, what test would validate if they met their requirements?

A. F Test

B. Test for Equal Variance

C. Chi Square Test

D. One-Sample t-Test

Correct Answer: D