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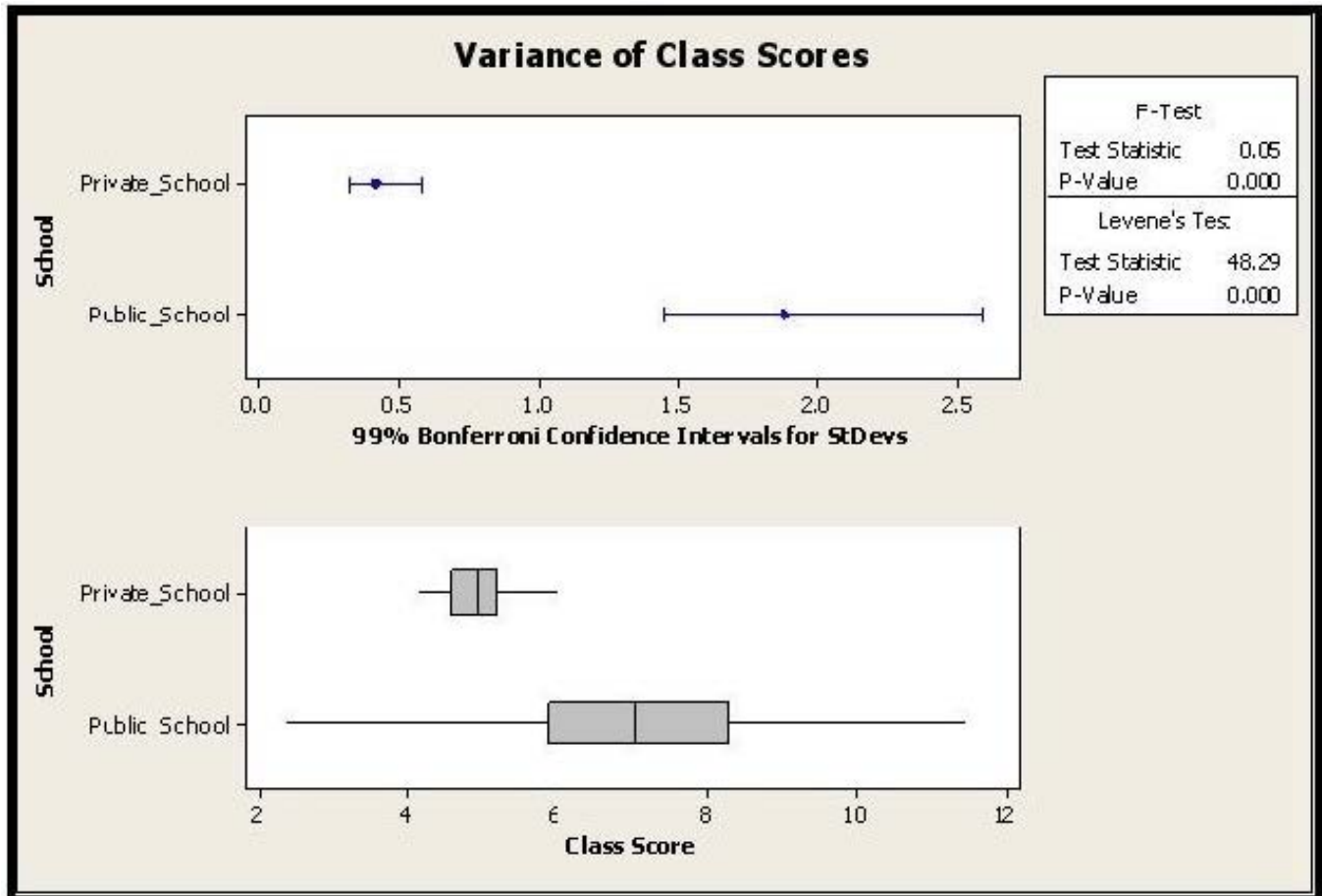
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QUESTION 1

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 2

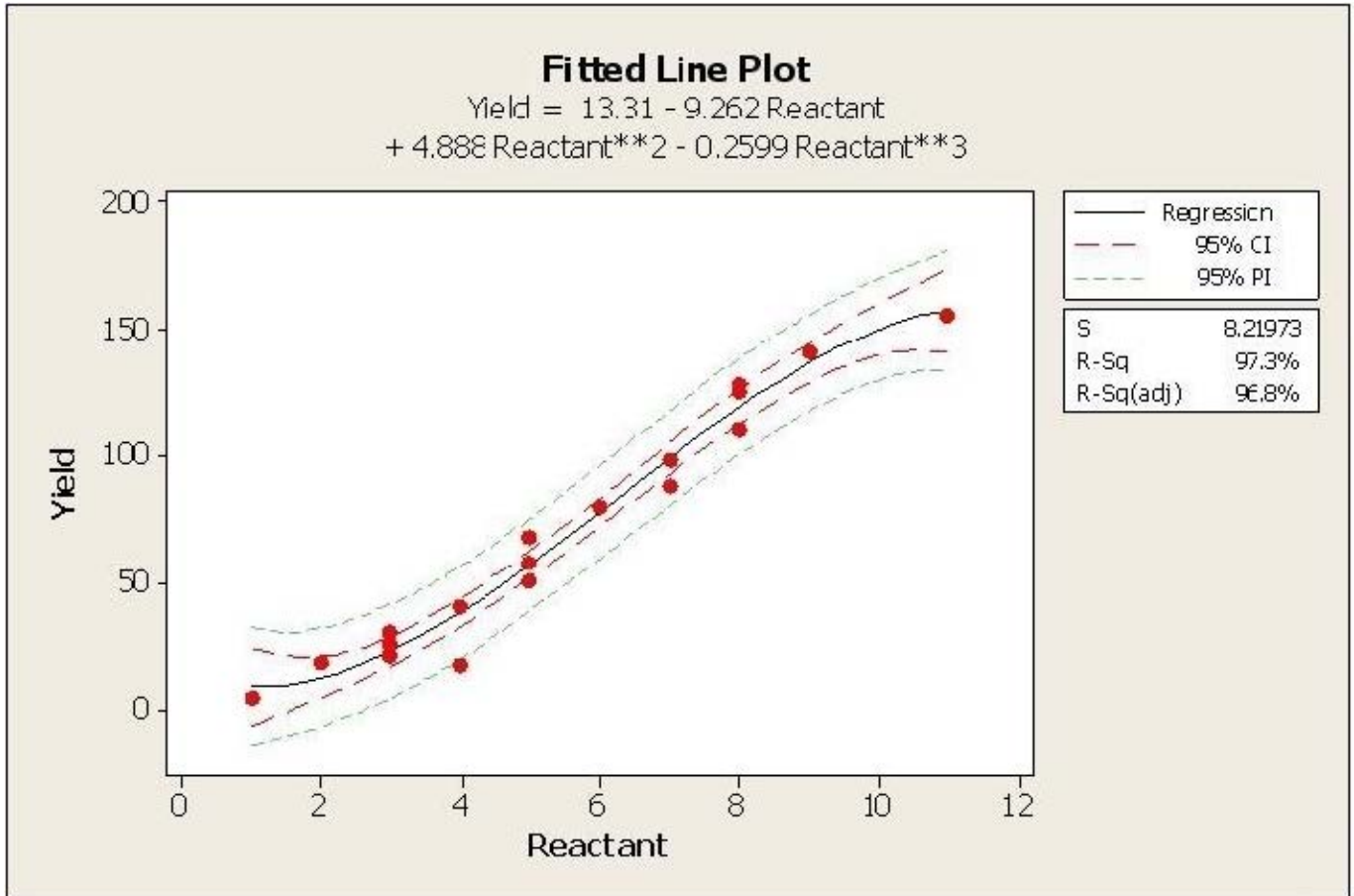
Measurement _____ is defined as the difference between the observed and the expected values for a given set of data.

- A. Bias
- B. Linearity
- C. Range
- D. Breadth

Correct Answer: A

QUESTION 3

Which statement is NOT correct about the Fitted Line Plot shown here?



- A. The independent variable is the reactant
- B. If the reactant was 10 units, with 95% confidence we would expect a minimum yield of 148 units
- C. With at least 95% confidence, we can expect less than 10 units of Yield when the reactant is at a value of 1
- D. A reactant value between 6 and 8 units yields around 40 to 60
- E. When the reactant increases, the expected yield would increase

Correct Answer: D

QUESTION 4

When doing Hypothesis Testing on Non-normal data Belts will use a _____ to compare more than two sample proportions to each other.

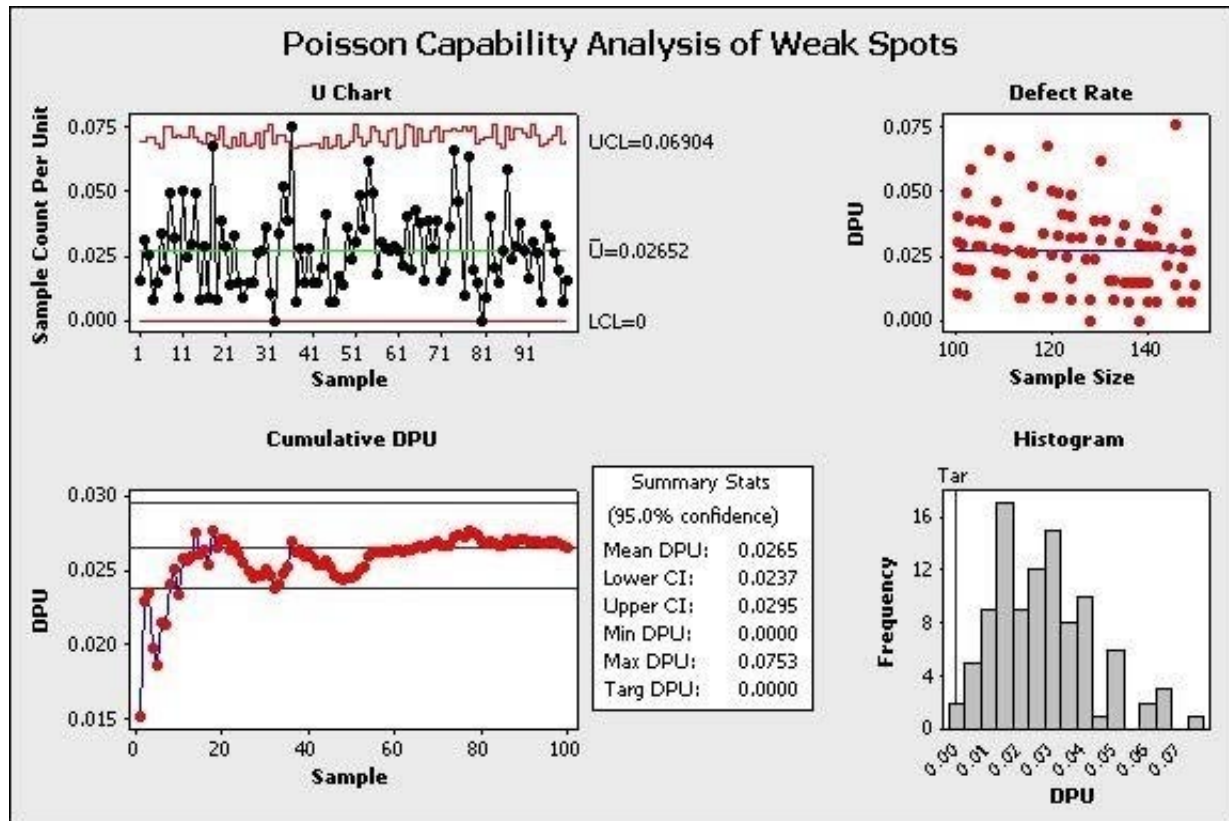
- A. Z score Table
- B. Sakami Table
- C. Mean-to-Mode Analysis
- D. Contingency Table



Correct Answer: C

QUESTION 5

Which statements are correct about the advanced Capability Analysis shown here? (Note: There are 3 correct answers).



- A. This is a Poisson Capability Analysis
- B. The average DPU with 95% confidence is between 0.024 and 0.0295
- C. The DPU does not seem to vary depending on sample size
- D. The process shows only one instance of being out of control statistically so we have confidence in the estimated DPU of this process
- E. The maximum DPU in one observation was nearly 0.0753

Correct Answer: BCE

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