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**QUESTION 1**

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
- E. If we wanted to compare the Central Tendencies of all three samples we could use the Mann-Whitney test

Correct Answer: BD

QUESTION 2

Calculate the Rolled Throughput Yield of this process using this data. Data: unit input: 1215, unit output: 1180, defects repaired: 184, scrap: 42

- A. 80.85%
- B. 81.40%
- C. 82.23%
- D. 84.96%

Correct Answer: B

QUESTION 3



Which of these are examples of business metrics or Key Performance Indicators commonly referred to as KPI's?

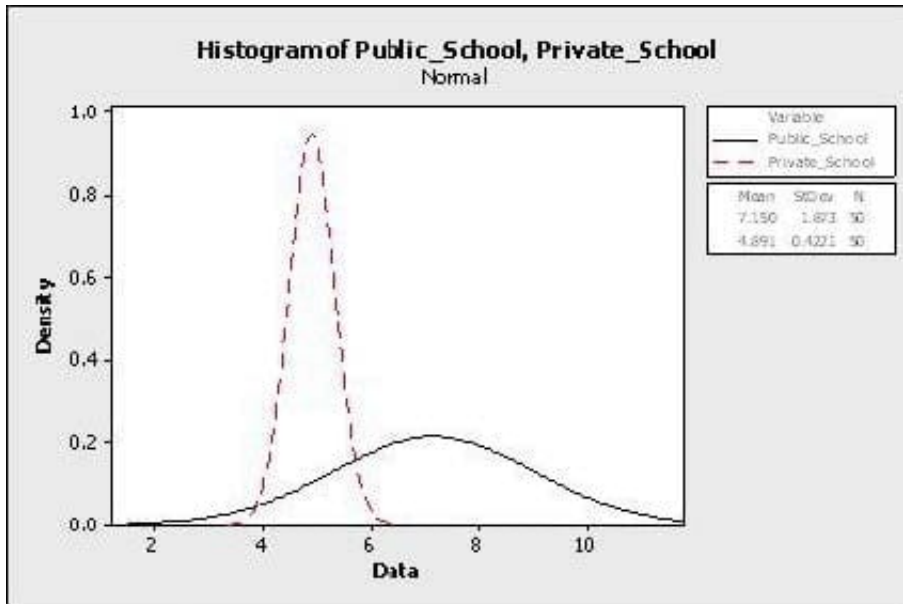
- A. Cycle Time
- B. Defects
- C. No. of Units Reworked
- D. Labor Hours
- E. All of these answers are correct

Correct Answer: E

QUESTION 4

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)

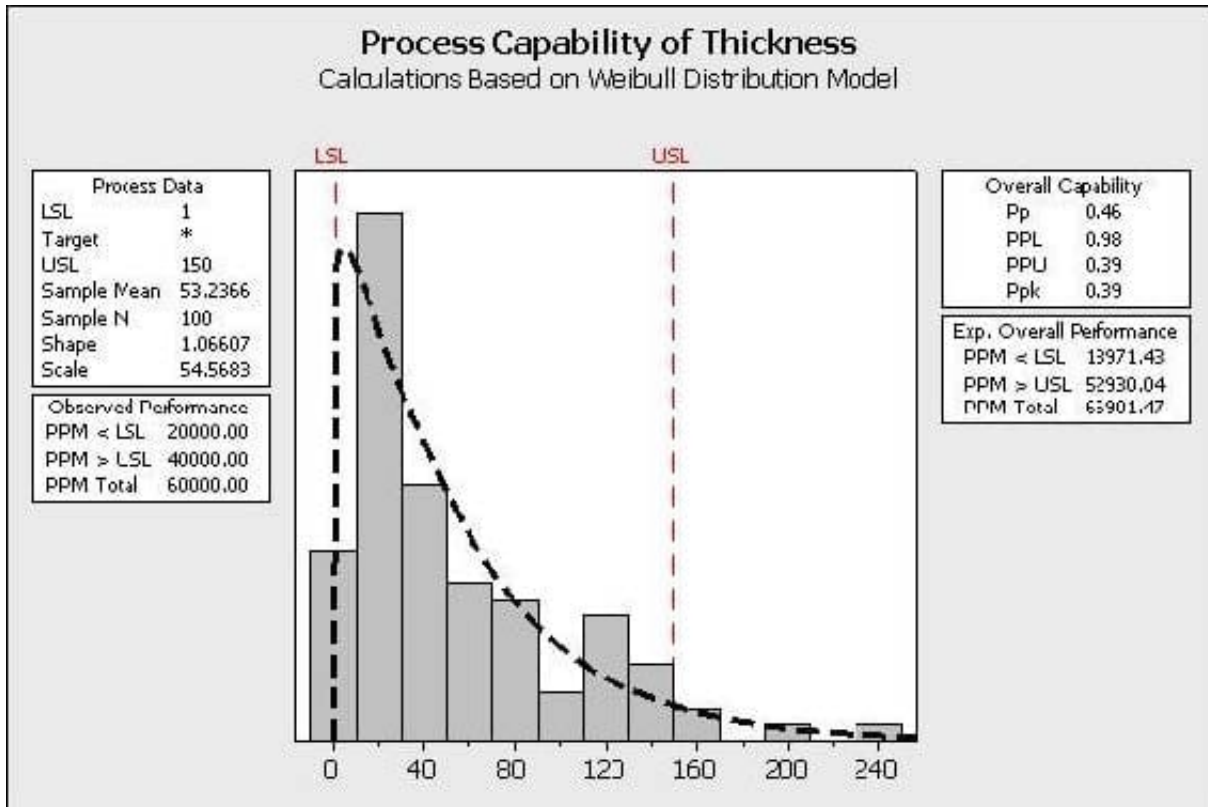
T-Test of difference = 0 (vs not =): T-Value = -8.32 p-Value = 0.000 DF = 53

- 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

Correct Answer: A

QUESTION 5

Review the analysis shown here. Which statements are true about the process? (Note: There are 3 correct answers).



- A. The initial focus for this project would be to determine why the thicknesses are so frequently too low
- B. The majority of the process is closer to the lower specification limit
- C. This process is described with the Weibull Distribution
- D. The process has more problems with Variation than Centering
- E. The process follows a non-normal distribution with the given data

Correct Answer: BDE

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