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Lean Six Sigma Black Belt

Six Sigma LSSBB

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QUESTION NO: 1

To properly analyze the variables impacting the output of a process we need to collect data that represents at least 80% of the variation in the process and assure ourselves we are collecting data from all three types of variation which are _____.

A. Within, Between and Temporal

B. Within, Between and Temporary

C. Without, Above and Below

D. Induced, Natural and Unavoidable

ANSWER: A

QUESTION NO: 2

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

ANSWER: B D

QUESTION NO: 3

A Factorial Experiment based on a Level 2 Design with 6 factors would require 16 runs to fully assess the interactions.

A. True

B. False

ANSWER: B

QUESTION NO: 4

It would be more likely than not for a Belt conducting a Regression Analysis to find that the _____.

A. r2 value is smaller than the absolute value of r

B. Correlation Coefficient equals r2

C. Coefficient of Determination is less than r2

D. Correlation Coefficient equals r divided by 2

ANSWER: A

QUESTION NO: 5

Fractional Factorial Designs are used to analyze factors to model the output as a function of inputs if Hypothesis Testing in the Analyze Phase was inadequate to sufficiently narrow the factors that significantly impact the output(s).

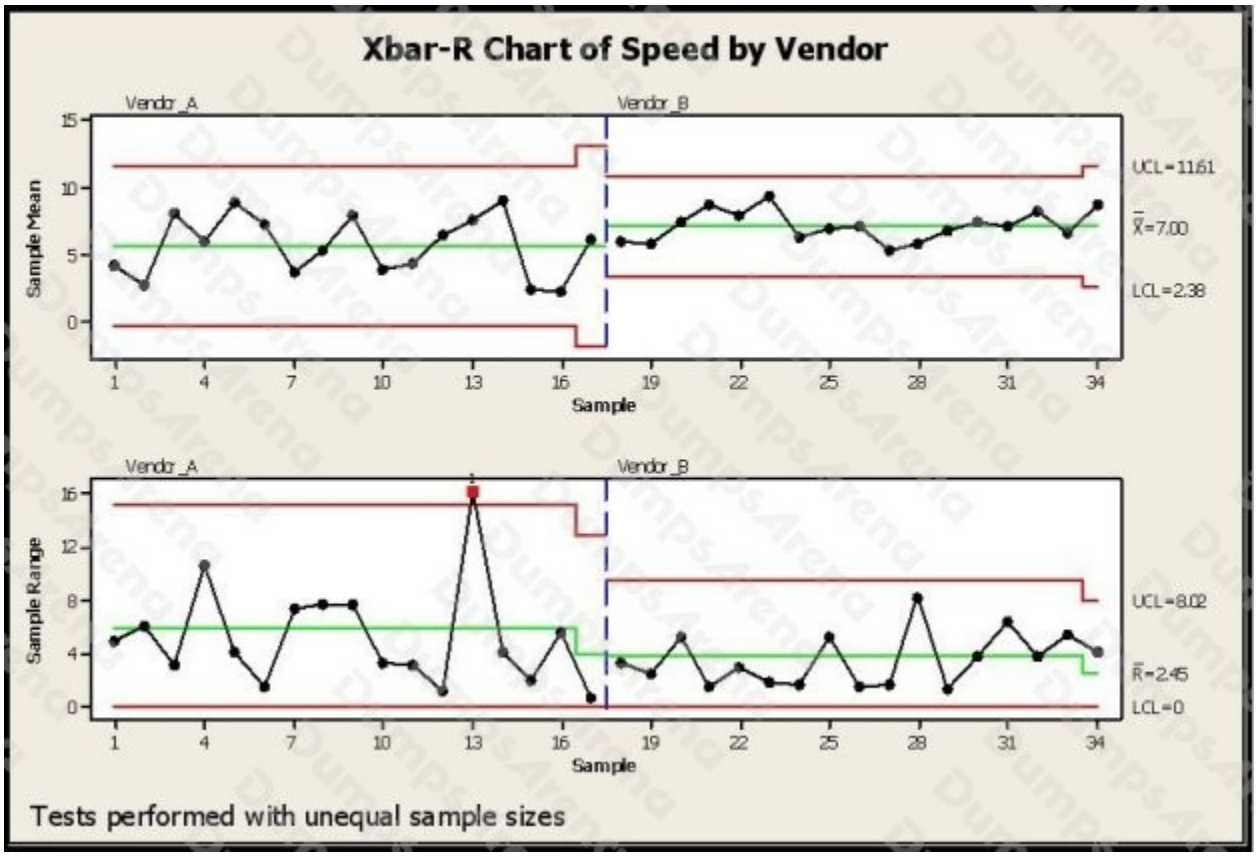
A. True

B. False

ANSWER: A

QUESTION NO: 6

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 as Vendor A shows a situation out of control as shown in red

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

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

ANSWER: B C D E

QUESTION NO: 7

Those people who have a interest in the outputs of a process are known as _____.

A. Stakeholders

B. Senior management

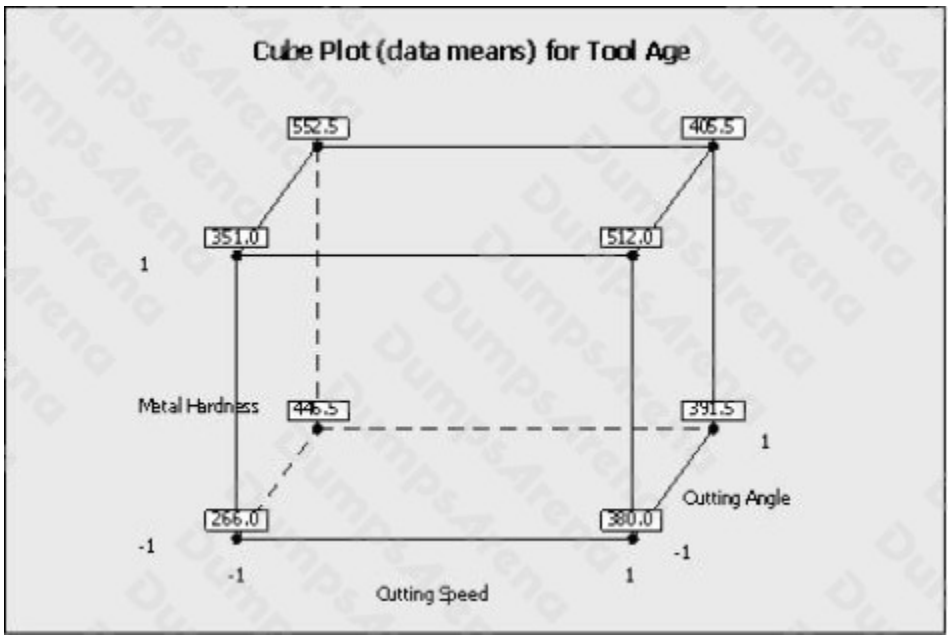
C. Co-workers

D. Process owners

ANSWER: A

QUESTION NO: 8

Which statement(s) are correct about the Factorial Plot shown here? (Note: There are 3 correct answers).



A. When the cutting speed increased from low to high level, the tool age increases

B. The coefficient of the metal hardness is positively related to the output of tool age

C. The coded coefficient is lower for cutting speed than the cutting angle related to the output of tool age

D. These plots prove a statistically significance factor with 95% confidence

E. These plots are an example of interaction plots

ANSWER: A B C

QUESTION NO: 9

Kanban establishes a means of monitoring production, conveyance and delivery information such that efficient flow is established. The method used by Kanban is to require a _____ before anything moves.

A. Sign-off

B. Signal

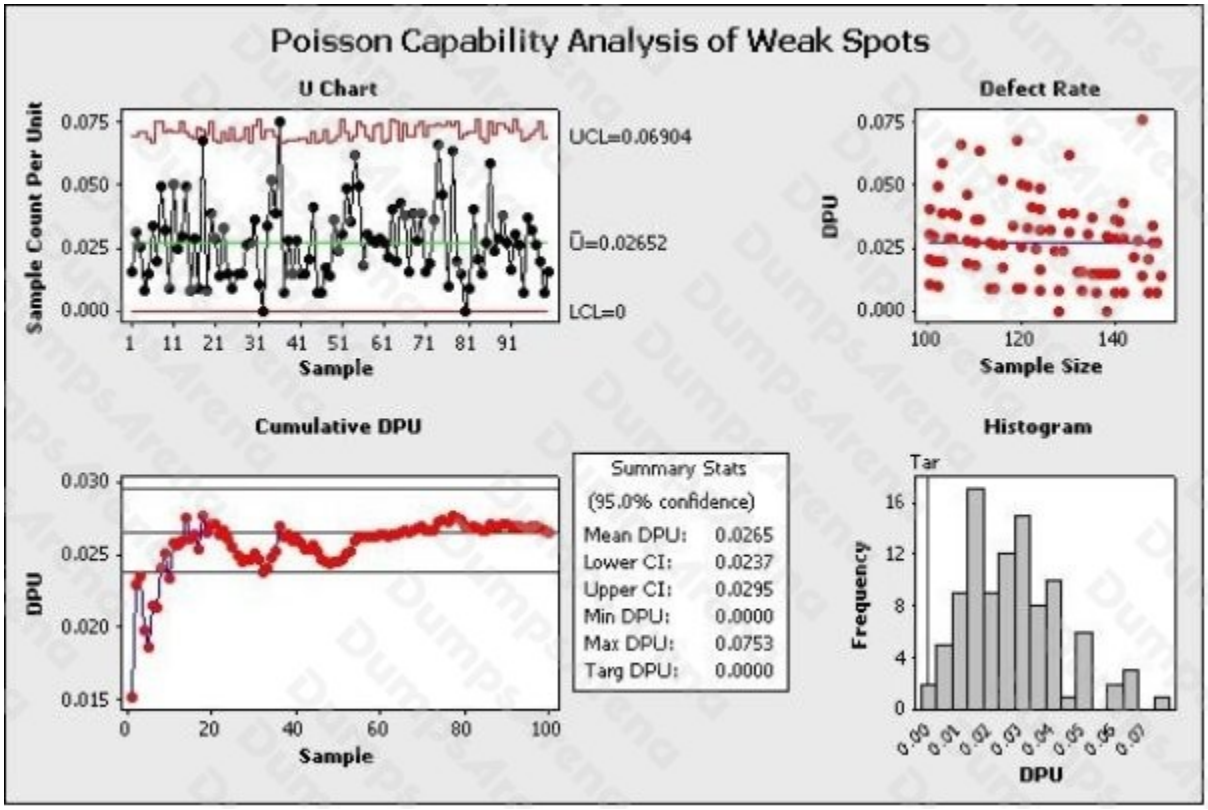
C. Bell to ring

D. Work order

ANSWER: B

QUESTION NO: 10

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

ANSWER: B C E

QUESTION NO: 11

The two types of data that can be used in Statistical Analysis are Attribute and Variable.

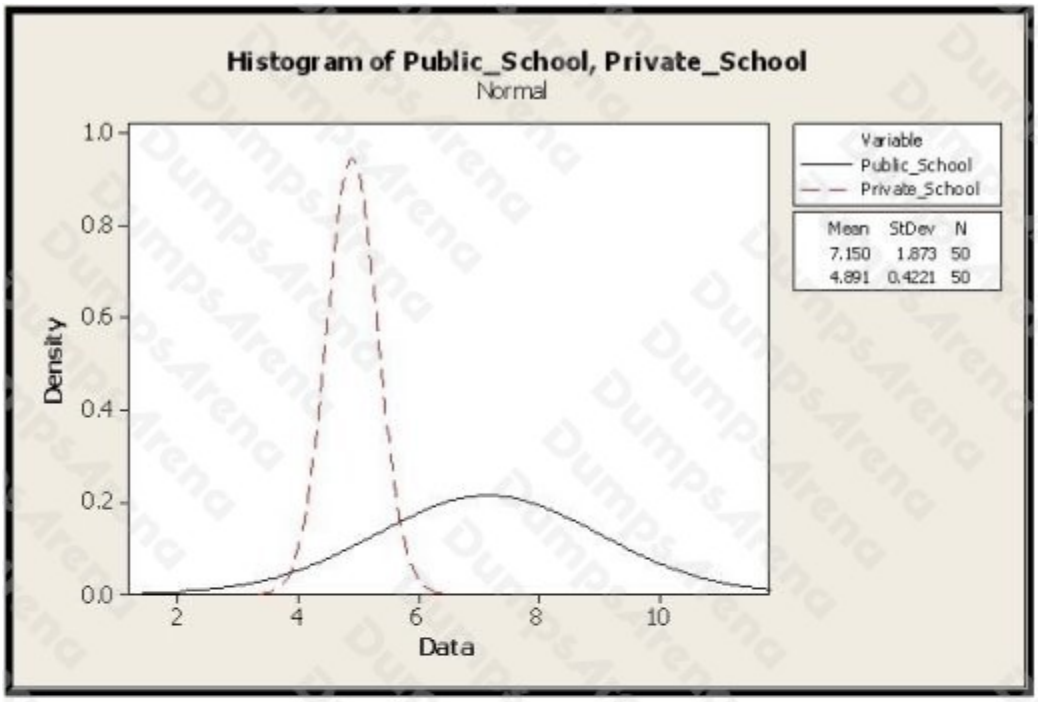
A. True

B. False

ANSWER: A

QUESTION NO: 12

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 = mu (Private_School) - mu (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

E. A visual comparison shows that class Means are statistically different

ANSWER: A

QUESTION NO: 13

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

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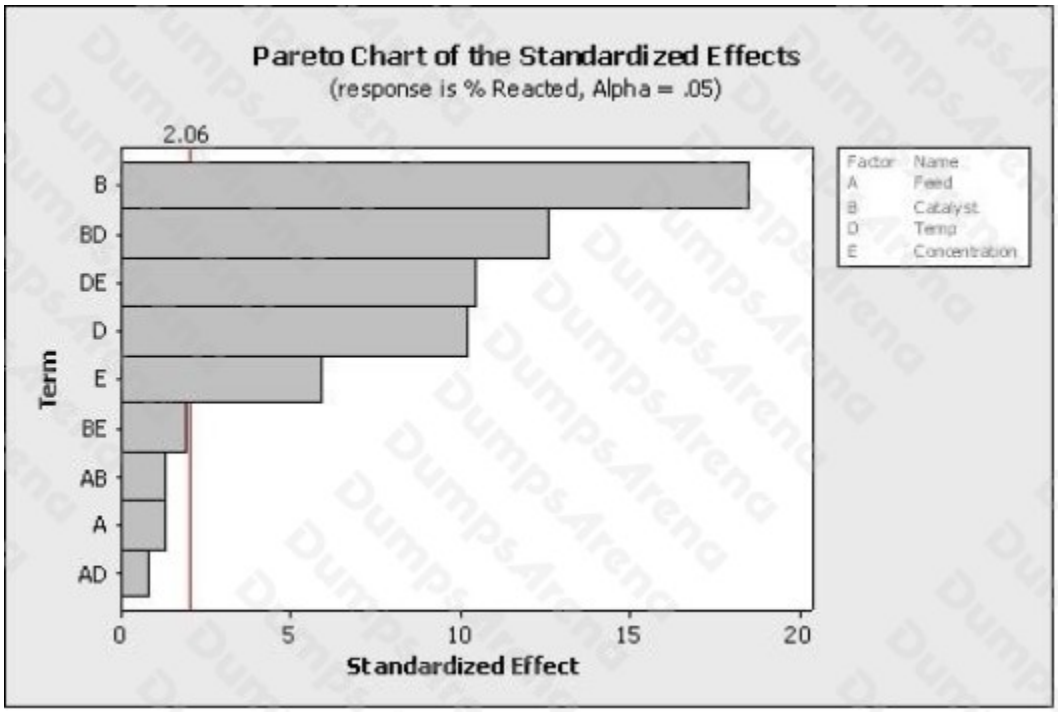
ANSWER: B D

QUESTION NO: 14

Which statement(s) are correct about the Pareto Chart shown here for the DOE analysis? (Note: There are 2 correct answers).



A. It is unknown from this graph how many factors were in the Experimental Design

B. The factors to keep in the mathematical model are E, D, DE, BD and B with an alpha risk equal to 2.06

C. The effects to keep in the mathematical model are E, D, DE, BD and B with an alpha risk equal to 0.05

D. The factors to keep in the mathematical model with a 5% alpha risk are BE, AB, A and AD

ANSWER: A C

QUESTION NO: 15

From this list select the items that define what an X-Y Diagram is. (Note: There are 4 correct answers).

A. Created for every project

B. Based on team's collective opinions

C. Updated whenever a parameter is changed

D. Used to show each step in a process

E. A living document throughout project lifecycle

ANSWER: A B C E