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Lean Six Sigma Master Black Belt

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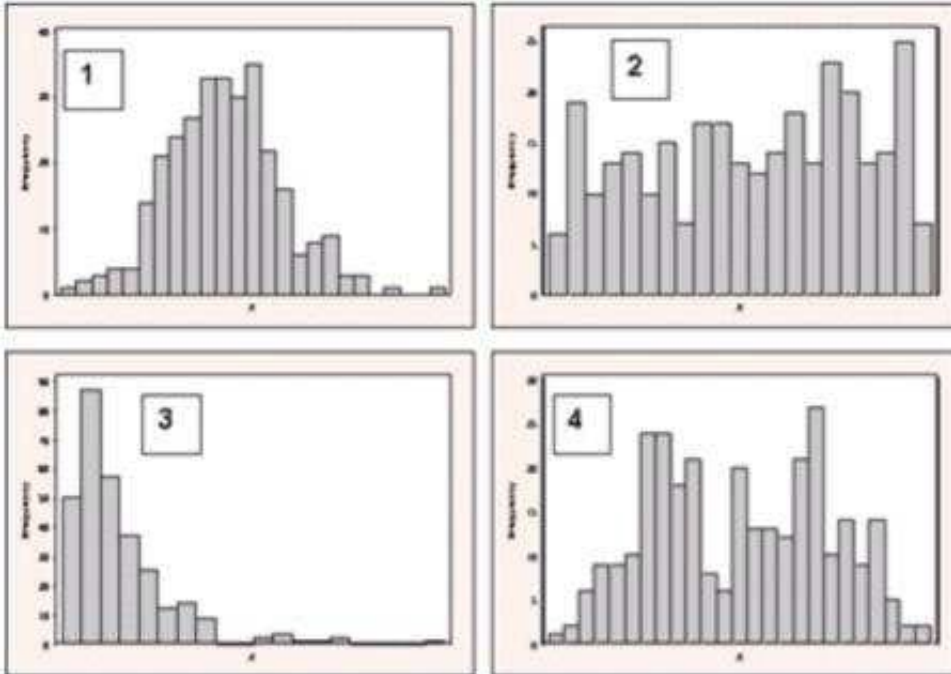**100% Money Back Assurance**

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QUESTION 1

Match the following histograms with the appropriate distributions.
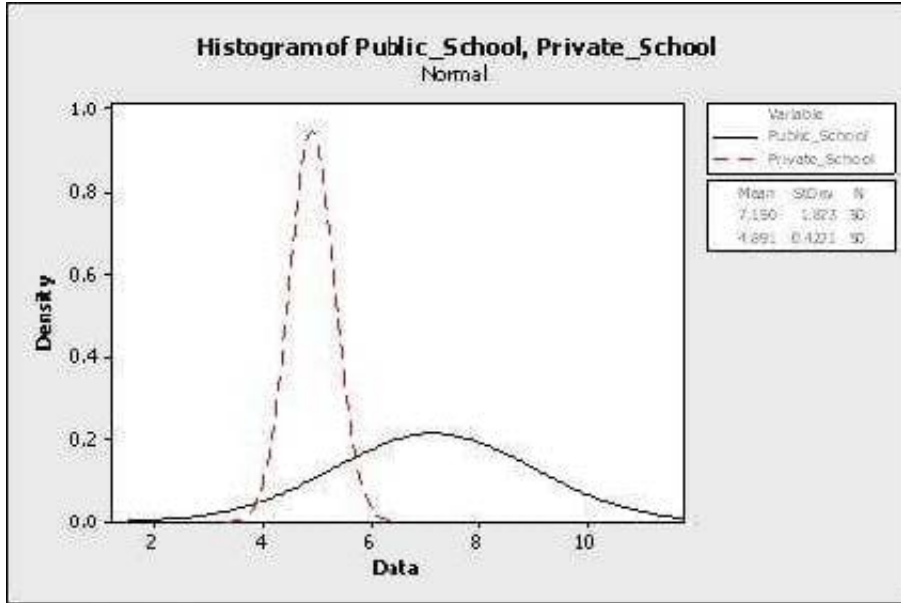

A. 1-Exponential, 2-Bimodal, 3-Normal, 4-Uniform

B. 1-Normal, 2-Uniform, 3-Exponential, 4-Bimodal

C. 1-Normal, 2-Exponential, 3-Uniform, 4-Bimodal

D. 1-Exponential, 2-Bimodal, 3-Uniform, 4-Normal

Correct Answer: B

QUESTION 2

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.

Histogram of Public_School, Private_School
Normal

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

Correct Answer: A

QUESTION 3

When a Belt Poka-Yoke\'s a defect out of the process entirely then she should track the activity with a robust SPC system on the characteristic of interest in the defect as an early warning system.

A. True

B. False

Correct Answer: B

QUESTION 4

When performing a Measurement System Analysis, total = 5. What is the required measurement unit of the measurement tool in order to have acceptable discrimination?

A. 3 or less

B. 4.5 or less

C. 5 or less

D. 3.5 or less

Correct Answer: A

QUESTION 5

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 6

The Lean toolbox includes all of these items except _____.

A. Mistake Proofing

B. Visual Factory

C. Design of Experiments

D. Inventory Management

Correct Answer: C

QUESTION 7

If the production is for higher volume and monitoring and the Mean and variability is to be monitored for four machines producing product and the characteristic to be monitored is Variable Data, which SPC Chart is best to be selected?

A. Xbar-R Chart

B. Individual-MR Chart

C. NP Chart

D. CUSUM Chart

Correct Answer: A

QUESTION 8

With Measurement System Analysis we are concerned with two issues that impact the potential variability of the data. They are _____.

A. Precision and Accuracy

B. Reliability and Repeatability

C. Error and Spread

D. Sensitivity and Deflection

Correct Answer: A

QUESTION 9

If a process has subgroups for Variable data and the process runs for a long period of time, then the best pair of SPC Charts to use would be an Xbar and _____.

A. NP Chart

B. Individuals Chart

C. R Chart

D. C Chart

Correct Answer: C

QUESTION 10

If in an experiment all possible variable pairs sum to zero the design is Orthogonal.

A. True

B. False

Correct Answer: A

QUESTION 11

When a Belt implements an improvement that is automated thus requiring no particular understanding for use he has applied which Lean tool?

A. Mistake Proofing

B. Kaizen Event

C. 5S

D. None

Correct Answer: A

QUESTION 12

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 $3,800 in order to stay within budget. Using a sample of 38 first article components, a Mean of the new product upgrade price of $3,680, and a Standard Deviation of $120 was estimated. In order to increase the Long Term Z value to 5, what is the maximum long term variation in pricing the Belt can accept for his upgraded critical raw material component?

A. $6

B. $12

C. $24

D. $48

Correct Answer: C

QUESTION 13

When variation is removed from the output of a process then the process customer can have more confidence in the experience that results from the process.

A. True

B. False

Correct Answer: A

QUESTION 14

For a batch manufacturing process, while assessing short term process variation, which variation category (ies) should one need to focus on? (Note: There are 2 correct answers).

A. Variation within consecutive pieces

B. Variation among consecutive batches

C. Variation among groups of pieces

D. Variation among the completed product

Correct Answer: AB

QUESTION 15

If an experiment has 5 factors and no replicates for a 2-level Experimental Design with 16 experimental runs which statement is incorrect?

A. The Experimental Design is half-fractional

B. The Main Effects are confounded with only 4-way interactions

C. The Main Effects for the 5 factors are not aliased or confounded but the 2-way interactions are confounded with the 3-way interactions

D. The experiment has 8 experimental runs with the first factor at the high level

Correct Answer: C