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QUESTION 1

Situations where standardized work needs to be incorporated include all of these except _____.

A. Changeover instructions incomplete

B. Lack of a system to assure proper inventory levels at repair stations

C. Machines continually operating to reduce the labor cost per piece

D. Process flow for the same product assembly taking various cycle time for completion

Correct Answer: C

QUESTION 2

The English words used for the 5S\\'s are Sorting, Straightening, _____ , _____ and Sustaining. (Note: There are 2 correct answers).

A. Shaping

B. Shining

C. Standardizing

D. Signing

Correct Answer: BC

QUESTION 3

A valid Multiple Linear Regression (MLR) is characterized by all of these except _____.

A. It is an assumption that the X\\'s (inputs) are not correlated to each other

B. The X\\'s (inputs) are assumed to be independent of each other

C. MLR is conducted based on a deliberate form of experimentation

D. The Residuals from MLR analysis have to be Normally Distributed

Correct Answer: C

QUESTION 4

Which Experimental Design typically is most associated with the fewest number of input variables or factors in the design?

A. Response Surface design

B. Full Factorial design

C. Simple Linear Regression

D. Fractional Factorial design

Correct Answer: A

QUESTION 5

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

QUESTION 6

A valid mathematical Regression represents all of the characteristics shown except _____.

A. The residuals when plotted follow a Normal Distribution

B. The sum of the residuals is zero

C. All of the standardized residuals will be within ? Standard Deviations

D. Most standardized residuals are within ? Standard Deviations

Correct Answer: C

QUESTION 7

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 8

Which statement(s) are incorrect for the Regression Analysis shown here? (Note: There are 2 correct answers).

```
Regression Analysis: Turbine Output versus Air-Fuel Ratio, % steam, ...
The Regression Equation is
TurbineOutput = 16.5 + 3.21 Air-Fuel Ratio + 0.386 % methane
               + 0.0166 SteamExitTemp

Predictor           Coef    SE Coef       T      P
Constant          16.488      2.918    5.65  0.000
Air-Fuel Ratio    3.2148     0.2377   13.52  0.000
% methane        0.38637    0.07278    5.31  0.000
SteamExitTemp   0.016576   0.004273    3.88  0.004

S = 0.508616   R-Sq = 98.6%   R-Sq (adj) = 98.2%
Analysis of Variance
Source          DF       SS      MS       F      P
Regression       3  170.003  56.668  219.06  0.000
Residual Error   9    2.328   0.259
Total           12  172.331

Source          DF   Seq SS
Air-Fuel Ratio   1  159.048
% methane        1    7.062
SteamExitTemp    1    3.892
```

A. The air-fuel ratio explains most of the TurbineOutput variation

B. The Regression explains over 98% of the process variation

C. This Multiple Linear Regression has three statistically significant independent variables

D. If the air-fuel ratio increases by 1, the TurbineOutput more than triples

E. The SteamExitTemp explains the most variation of the TurbineOutput

Correct Answer: DE

QUESTION 9

What dollar amount of savings would a project show if it reduced your outstanding Accounts Receivable by $1.4 million dollars to $5.3 million total and your organization\'s marginal cost of capital was 6.2%?

A. $43,400

B. $86,800

C. $117,500

D. $328,600

Correct Answer: B

QUESTION 10

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 11

The Waste of Overproduction is defined as _____.

A. The unnecessary movement of people and equipment

B. The liability of materials that are bought, invested in and not immediately sold or used

C. Producing more than the next step needs or more than the customer buys

D. The extra movement of material

Correct Answer: C

QUESTION 12

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

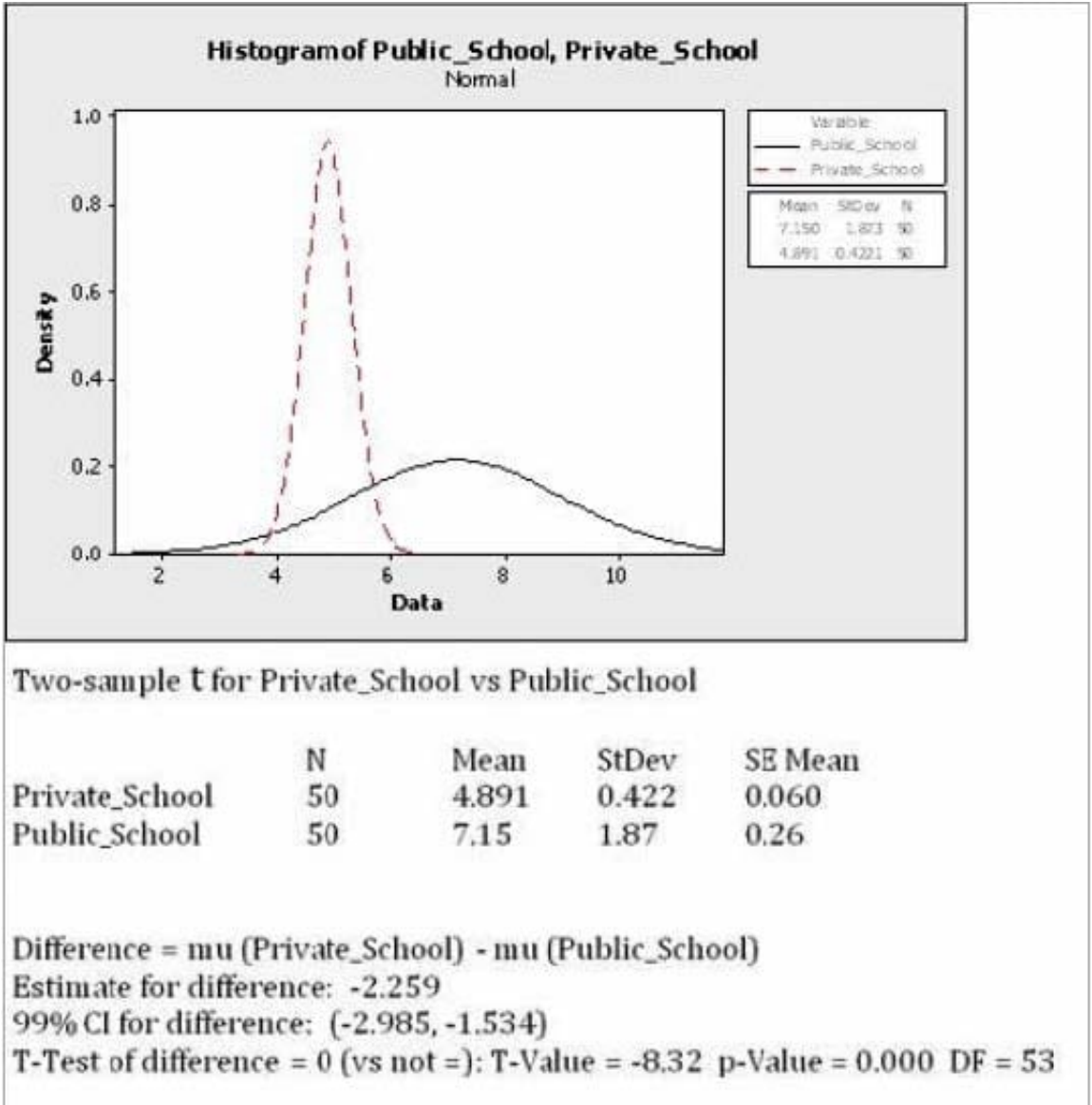C. NP Chart

D. CUSUM Chart

Correct Answer: A

QUESTION 13

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 14

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

Variable
—— Public_School
– – Private_School

Mean	StDev	N
7.150	1.873	50
4.891	0.4221	50

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 15

Upon completion and validation of an improvement to a process a Belt and the Project Team create a Control Plan that contains which of these?

A. Standard operating work description of the process change

B. Description of the monitoring system in place to assure continued compliance

C. Summary of the targeted critical metrics for process performance measurement

D. All of the above

Correct Answer: D

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