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QUESTION 1

A Belt rearranged the location of the parts inventory for a rework station locating the most often used parts to be within hand reach of the repair person. This rearrangement resulted in quicker repair times by eliminating one of seven major elements of waste which is the Waste of _____.

A. Motion

B. Conveyance

C. Inventory

D. Waiting

Correct Answer: A

QUESTION 2

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 $2,800 in order to stay within budget. Using a sample of 55 first article components, a Mean of the new product upgrade price of $2,240 and a Standard Deviation of $120 was estimated. Based on the data provided, the Z value for the data assuming a Normal Distribution is?

A. 2.33

B. 4.67

C. 6.48

D. 8.28

Correct Answer: B

QUESTION 3

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 4

Contingency Tables are used to test for association, or dependency, between two or more classifications.

A. True

B. False

Correct Answer: A

QUESTION 5

An operator is measuring the distance between two points. Which is most likely to be influenced by the operator?

A. Precision of the measurement

B. Accuracy of the measurement

C. Calibration of the instrument

D. All of these answers are correct

Correct Answer: D

QUESTION 6

Handling of warranty returns, process improvement team meetings and rework to meet customer expectations are all examples of business costs that are classified as _____ .

A. Nuisance

B. Non-value Add

C. Necessary

D. Unavoidable

Correct Answer: B

QUESTION 7

The calculation of Column Total times Row Total divided by Grand Total yields expected values from what type of chart?

A. Pareto Chart

B. Sakami Table

C. Contingency Table

D. None

Correct Answer: C

QUESTION 8

The method of Steepest Ascent guides you toward a target inside the original inference space.

A. True

B. False

Correct Answer: B

QUESTION 9

Which statement(s) are most correct for the Regression Analysis shown here?

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 Regression explains 50.8% of the process variation

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

C. This Simple Linear Regression explains 98+% of the process variation

D. This Multiple Linear Regression has four statistically significant independent variables

Correct Answer: B

QUESTION 10

A Belt is analyzing data and upon creation of the graphical analysis sees multiple modes. One of the primary reasons this could occur is because the process has experienced a _____.

A. Significant change from one shift to another

B. Sizable Measurement System error

C. Catastrophic failure of some sort D. Any one of these

Correct Answer: D

QUESTION 11

Using this data calculate the percentage of DPU.

Data: 763 defects, 18,000 units.

A. 2.12

B. 3.42

C. 4.24

D. 5.72

Correct Answer: C

QUESTION 12

A Belt has determined that the inventory of repair parts at a rework station can be reduced by 45%. According to Cost of Poor Quality (COPQ) definitions inventory reduction would be considered _____.

A. Soft Savings

B. COPQ efficiency

C. Median Savings

D. Hard Savings

Correct Answer: D

QUESTION 13

Two of the key deliverables for the Measure Phase are a robust description of the process and its flow and an assessment of the Management System.

A. True

B. False

Correct Answer: B

QUESTION 14

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.

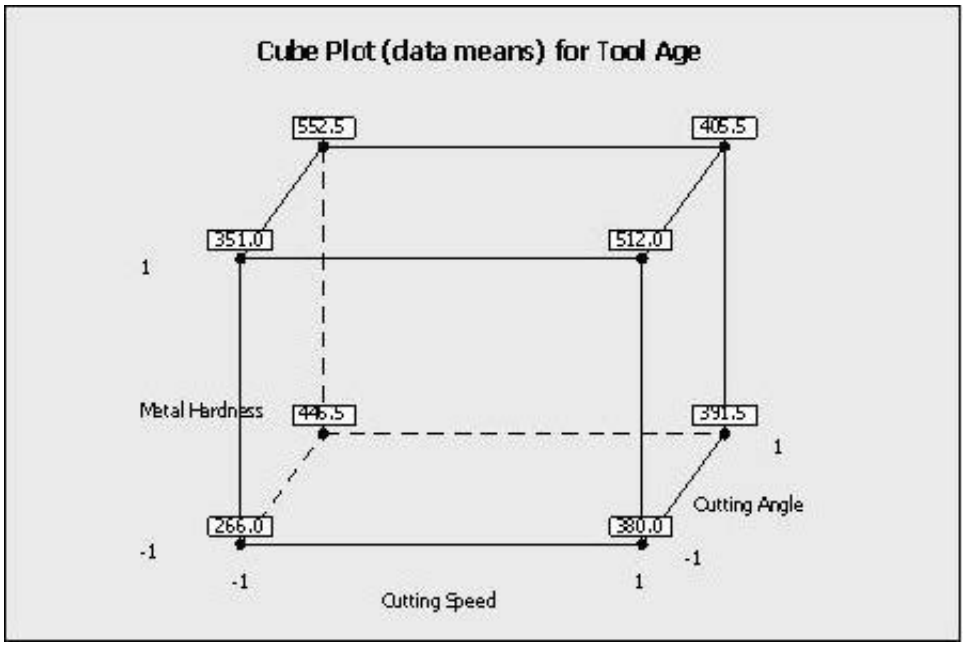
A. True

B. False

Correct Answer: A

QUESTION 15

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

Correct Answer: ABC