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QUESTION 1

From the variance F-test shown above, which of these conclusions is/are valid?

- A. The variance between the class score distribution is significantly different
- B. The variance between the class score distribution is not significantly different
- C. This test applies only to Normal Distributed data at 99 % confidence
- D. This test applies only to Non-normal Data at 99 % confidence
- E. There are not enough data points to make any statistical conclusions

Correct Answer: A

QUESTION 2

All the data points that represent the total set of information of interest is called the _____ .

- A. Population
- B. Sample
- C. Frame
- D. Spread

Correct Answer: A

QUESTION 3

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

$$\text{TurbineOutput} = 16.5 + 3.21 \text{ Air-Fuel Ratio} + 0.386 \% \text{ methane} + 0.0166 \text{ SteamExitTemp}$$

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 4

For a Normal Distribution as samples size increases the Range in Mean and Standard Deviation decrease relative to the Mean and Standard Deviation of the population.

- A. True
- B. False

Correct Answer: A

QUESTION 5

Following process modifications, the Null Hypothesis states that no improvement to the process has occurred. If we discover the Null Hypothesis Test was rejected when it was false that would be a(n) _____.

- A. Type I Error
- B. Type II Error



C. Type III Error

D. Alpha Error

Correct Answer: B

QUESTION 6

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

Correct Answer: A

QUESTION 7

The Hardware Store ordered ten lawn mower from the manufacturer and just before shipping the manufacturer found one to have a motor that wouldn't start. For the manufacturer this would be categorized as what type of cost?

A. Internal Failure Costs

B. External Failure Costs

C. Prevention Costs

D. Appraisal Costs

Correct Answer: A

QUESTION 8

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 9

The _____ is the most frequently occurring value in a distribution of data.

A. Median

B. Mean

C. Center Point

D. Mode

Correct Answer: D

QUESTION 10

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 11

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 12

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

- A. True
- B. False

Correct Answer: A

QUESTION 13

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 14

Which of these items contribute to what is necessary for successful Kaizen events?

- A. Analysis tools
- B. Management support
- C. Operator support
- D. All of these answers are correct

Correct Answer: D

QUESTION 15



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

- A. All of the standardized residuals will be within ? Standard Deviations
- B. The sum of the residuals is zero
- C. The residuals when plotted follow a Normal Distribution
- D. Most standardized residuals are within ? Standard Deviations
- E. The Residual is equal to the difference between the observed and predicted values

Correct Answer: A

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