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Six Sigma LSSGB

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QUESTION NO: 1

Significant variation in process performance is a consequence of several causes that can be classified using which of the terminologies shown. (Note: There are 2 correct answers).

- A. Common
- B. Random
- C. Uneducated
- D. Special
- E. Vital

ANSWER: A D

QUESTION NO: 2

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

Regression Analysis: HeatFlux versus %Cu, Thickness

The Regression Equation is

$$\text{HeatFlux} = 484 + 4.80 \%Cu - 24.2 \text{ Thickness}$$

Predictor	Coef	SE Coef	T	P
Constant	483.67	39.57	12.22	0.000
%Cu	4.7963	0.9511	5.04	0.000
Thickness	-24.215	1.941	-12.48	0.000

s = 8.93207 R-Sq = 85.9% R-Sq (adj) = 84.8%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	2	12607.6	6303.8	79.01	0.000
Residual Error	26	2074.3	79.8		
Total	28	14681.9			

Source	DF	Seq SS
%Cu	1	184.5
Thickness	1	12423.1

Unusual Observations

Obs	%Cu	HeatFlux	Fit	SE Fit	Residual	St Resid
1	40.6	271.80	274.74	5.08	-2.94	-0.40 X
22	36.3	254.50	230.91	2.39	23.59	2.74R

R denotes an observation with a large standardized residual.

X denotes an observation whose X value gives it large influence.

- A. This Regression is an example of a Multiple Linear Regression.
- B. This Regression is an example of Cubic Regression.
- C. %Cu explains the majority of the process variance in heat flux.
- D. Thickness explains over 80% of the process variance in heat flux.
- E. The number of Residuals in this Regression Analysis is 26.

ANSWER: A D

QUESTION NO: 3

The Empirical Rule is important because it provides an estimate of the probability of an event occurring depending on the Standard Deviation from the Mean.

- A. True
- B. False

ANSWER: A

QUESTION NO: 4

Multiple Linear Regressions (MLR) is best used when which of these are applicable? (Note: There are 3 correct answers).

- A. Non-linear relationships between the inputs X's and output Y
- B. Uncertainty in the slope of the linear relationship between an X and a Y
- C. Relationships between Y (output) and more than one X (Input)
- D. Preventing the use of a Designed Experiment if unnecessary
- E. We assume that the X's are independent of each other

ANSWER: C D E

QUESTION NO: 5

The Purchase Orders for Glenn Manufacturing Company were being copied by an employee and sent to four different departments yet only one department took an action based on the information in the PO. This is an example of _____.

- A. External Failure Costs
- B. Appraisal Costs
- C. Internal Failure Costs
- D. Prevention Costs

ANSWER: C

QUESTION NO: 6

The Purchase Orders for Glenn Manufacturing Company were being copied by an employee and sent to four different departments yet only one department took an action based on the information in the PO. This is an example of _____.

- A. External Failure Costs
- B. Appraisal Costs
- C. Internal Failure Costs
- D. Prevention Costs

ANSWER: C

QUESTION NO: 7

Which statement(s) are true about the Fitted Line Plot shown here? (Note: There are 2 correct answers).

- A. When Reactant increases, the Energy Consumed increases.
- B. The slope of the equation is a positive 130.5.
- C. The predicted output Y is close to -18 when the Reactant level is set to 6.
- D. Over 85 % of the variation of the Energy Consumed is explained by the Reactant via this Linear Regression.

ANSWER: C D

QUESTION NO: 8

Which element of waste best describes the cost of a resource being in the queue?

- A. Waiting
- B. Motion
- C. Inventory
- D. Correction

ANSWER: A

QUESTION NO: 9

The generation of a Regression Equation is justified when we _____. (Note: There are 4 correct answers).

- A. Expect the relationship to be Linear between the output and inputs
- B. Know that there is a non-linear relationship between output and input(s)

- C. Need to understand how to control a process output by controlling the input(s)
- D. Experience several process defects and have no other way to fix hem
- E. When it is very expensive or too late to measure the output

ANSWER: A C D E

QUESTION NO: 10

Inferential Statistics is largely about Significance. There are both Practical and _____ Significance to consider during an analysis of data in a Lean Six Sigma project.

- A. Problematic
- B. Impractical
- C. Usable
- D. Statistical

ANSWER: D