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QUESTION 1

Examples of Mistake Proofing for a laptop computer include which of these? (Note: There are 2 correct answers).

- A. USB connection for a mouse
- B. Open/Close button for CD Drive
- C. Battery alignment pins
- D. On/Off switch for computer

Correct Answer: AC

QUESTION 2

When constructing a Fishbone Diagram using the _____ approach is the most classic arrangement.

- A. 6M
- B. 4M
- C. 5M
- D. Alphabetical

Correct Answer: A

QUESTION 3

When analyzing a data set we frequently graph one metric as a function of another. If the slope of the Correlation line is -2.5 we would say the two metrics are _____ correlated?

- A. Positively
- B. Not
- C. Negatively
- D. None

Correct Answer: C

QUESTION 4

The difference between the largest observation and the smallest observation in the data set is known as the _____.

- A. Breadth



- B. Range
- C. Spread
- D. Median

Correct Answer: B

QUESTION 5

Voice of the Customer is a Lean Six Sigma technique to determine _____ attributes of a product or service.

- A. At least 6
- B. The profitable
- C. Critical-to-Quality
- D. The majority of the

Correct Answer: C

QUESTION 6

Process Capability is a function of which of these?

- A. Customer requirements
- B. Process performance
- C. Output over time
- D. All of these answers are correct

Correct Answer: D

QUESTION 7

Six Sigma refers to a process whose output has at least 80% of its data points within +/- 6 Standard Deviations from the Mean.

- A. True
- B. False

Correct Answer: B

QUESTION 8



The higher the sigma level of a process the better the performance.

- A. True
- B. False

Correct Answer: A

QUESTION 9

After a Belt has put data through the smoothing process which chart would be used to look for trends in the data?

- A. Moving Average Chart
- B. Multi-Vari Chart
- C. X bar Chart
- D. Pareto Chart

Correct Answer: A

QUESTION 10

Measurement System Analysis is a procedure used to quantify all _____ in the method or system used for taking measurements.

- A. Totals
- B. People involved
- C. Variation
- D. Summations

Correct Answer: C

QUESTION 11

Lean focuses on the sequence of activities and work required to produce a product or a service. This flow is called a _____.

- A. Value-add Flow
- B. Production Map
- C. Value Stream
- D. Operating Procedure

Correct Answer: C



QUESTION 12

Skewed, or Mixed, Distributions occur when data comes from several sources that are supposed to be the same yet are not.

- A. True
- B. False

Correct Answer: A

QUESTION 13

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.

Correct Answer: AD



QUESTION 14

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

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

Correct Answer: A

QUESTION 15

The deviation of the measured value from the actual value regardless of the operator is known as _____.

- A. Linearity
- B. Bias
- C. Repeatability
- D. Movement

Correct Answer: B

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