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QUESTION 1

What is the Ppk of a process with a spread of 24 units, an average of 68, an upper limit of 82 and a lower limit of 54?

- A. 1.68
- B. 2.00
- C. 4.00
- D. 4.42

Correct Answer: C

QUESTION 2

Customers make their decisions based on Features, Integrity (of the seller) Delivery and _____?

- A. Color
- B. Expense
- C. Season
- D. None

Correct Answer: B

QUESTION 3

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 \$4,200 in order to stay within budget. Using a sample of 35 first article components, a Mean of the new product upgrade price of \$4,060, and a Standard Deviation of \$98 was estimated. Select the answer that best states the Practical Problem.

- A. If the average cost per component is \$4,200 or less, then the purchase manager will introduce the new product upgrade with new components
- B. If the average cost per component is greater than \$4,200, then the purchase manager will introduce the new product upgrade with new components
- C. Only if the average cost per product upgrade is \$4,060, will the purchase manager introduce new product upgrades with new components
- D. If the average cost per new product upgrade is less than \$180, then the purchase manager will introduce the new product upgrade with new components

Correct Answer: C

QUESTION 4

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

- A. True
- B. False

Correct Answer: A

QUESTION 5

What aspects of Measurement Systems Analysis (MSA) studies are applicable when the process used to measure does not damage the part?

- A. Destructive variable gage RandR and Crossed Study
- B. Destructive variable gage RandR and Nested Study
- C. Nondestructive variable gage RandR and Crossed Study
- D. Nondestructive variable gage RandR and Nested Study

Correct Answer: D

QUESTION 6

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

- A. Median
- B. Mean
- C. Mode
- D. Center Point

Correct Answer: C

QUESTION 7

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 8

If item A is more likely to be detected than item B which will have the highest Detection value?

A. item A

B. item B

C. cannot be determined

Correct Answer: B

QUESTION 9

Screening experiments are the proper choice when a Belt is faced with the situation of highly Fractional Factorial Designs.

A. True

B. False

Correct Answer: A

QUESTION 10

A stable, normally distributed process with specification 3.50 ± 0.03 has $\bar{x} = 3.51$ and $\sigma = 0.016$. What percent of the production violates specification?

A. 16.43%

B. 12.62%

C. 18.58%

D. 11.18%

Correct Answer: D

QUESTION 11

A team wants to make a schedule for a project showing which tasks must be done sequentially and which may be done simultaneously. Which tool is most appropriate?

A. matrix diagram

- B. cause and effect diagram
- C. process decision program chart
- D. affinity diagram
- E. activity network diagram
- F. tree diagram
- G. prioritization matrix
- H. matrix diagram
- I. interrelationship digraph

Correct Answer: E

QUESTION 12

A medicine with efficacy of .52 is given to five patients. Find the approximate probability that at least one of the patients is cured. (Hint: Use the binomial formula.)

- A. .975
- B. .480
- C. .531
- D. .416
- E. none of the above

Correct Answer: A

QUESTION 13

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 14

Which statement is most correct for the Regression Analysis shown here?

Regression Analysis: Turbine Output versus Air-Fuel Ratio, % stream, ...

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	0.004
StreamExitTemp	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	P	F
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 15

It would be more likely than not for a Belt conducting a Regression Analysis to find that the _____.

- A. r² value is smaller than the absolute value of r
- B. Correlation Coefficient equals r²
- C. Coefficient of Determination is less than r²
- D. Correlation Coefficient equals r divided by 2

Correct Answer: A

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