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QUESTION 1

Accuracy can be assessed in several ways and a fairly accurate means of measurement is visual comparison.

- A. True
- B. False

Correct Answer: B

QUESTION 2

What dollar amount of savings would a project show if it reduced your outstanding Accounts Receivable by \$0.9 million dollars to \$3.5 million total and your organization's marginal cost of capital was 5.7%?

- A. \$49,250
- B. \$51,300
- C. \$117,500
- D. \$202,424

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. The Alternative Hypothesis in the above example is?

- A. The Standard Deviation is equal to \$300.
- B. The Mean is less than \$4,320.
- C. The Mean is equal to \$4,060.
- D. The Mean is less than \$4,200.
- E. The Mean is greater than \$ 4,200.

Correct Answer: E

QUESTION 4

Three Standard Deviations on left and right side of the mean would include what % of the total data points in Normal Distribution?

- A. 68%
- B. 97%
- C. 99%
- D. 95%

Correct Answer: C

QUESTION 5

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- E. The Mean is greater than \$ 4,200

Correct Answer: E

QUESTION 6

If the production is for higher volume and monitoring and the Mean and variability is to be monitored for four machines producing product and the characteristic to be monitored is Variable Data, which SPC Chart is best to be selected?

- A. Xbar-R Chart
- B. Individual-MR Chart
- C. NP Chart
- D. CUSUM Chart

Correct Answer: A

QUESTION 7

Fractional Factorial designs are used to reduce the _____ because the number of runs has been lowered.

- A. Time and cost of experiments

- B. Number of people involved
- C. Number of data measurement points
- D. Output summary

Correct Answer: A

QUESTION 8

The distance between the Mean of a data set and the Point of Inflection on a Normal curve is called the _____.

- A. Curve Spread
- B. Standard Deviation
- C. Numerical Average
- D. Data Breadth

Correct Answer: B

QUESTION 9

When the Inputs, X 's, for your process are Normally Distributed about the Mean, the Outputs, Y 's, will be Normally Distributed.

- A. True
- B. False

Correct Answer: B

QUESTION 10

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. Critical-to-Process

Correct Answer: C

QUESTION 11

The two types of data that can be used in Statistical Analysis are Attribute and Variable.

- A. True
- B. False

Correct Answer: A

QUESTION 12

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 13

Which of the following is an element of standard work?

- A. Takt time
- B. Product cost
- C. Product value
- D. Maximum inventory

Correct Answer: A

QUESTION 14

The statistics that summarize a population are referred to as?

- A. categorical statistics
- B. descriptive statistics
- C. probabilistic statistics
- D. control statistics

Correct Answer: B

QUESTION 15

An x-bar and R chart has four part measurements per sample. The control limits on the averages chart are 2.996 and 3.256. Assume the process data form a normal distribution. What is the probability that the next part measurement falls outside the control limits?

- A. 0.00135
- B. 0.0027
- C. 0.0681
- D. 0.1362
- E. 0.2724
- F. none of the above

Correct Answer: D

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