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QUESTION 1

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 2

A statistical test or Hypothesis Test is performed to reject or fail to reject a stated hypothesis and it converts the Practical Problem into a Statistical Problem.

- A. True
- B. False

Correct Answer: A

QUESTION 3

Goodness of fit is determined by _____.

- A. Coefficient of determination
- B. Coefficient of variation
- C. Sigma value
- D. RPN

Correct Answer: A



QUESTION 4

Bias refers to:

- A. The variation in the average when the same product or service is measured by different operators using the same measuring equipment.
- B. The way measurements are clustered around the center.
- C. The variation between the average measurement value and the actual value of the reference standard under analysis.
- D. The variation of a measurement against a standard or a quality tool which is accepted as a point of reference.

Correct Answer: A

QUESTION 5

Choose those characteristics of a Simple Linear Regression (SLR) Analysis that are applicable. (Note: There are 3 correct answers).

- A. The Correlation Coefficient is always greater than the Regression Coefficient in a SLR
- B. General Regression Analysis deals only with Continuous Data
- C. Non-linear Regressions can explain curvature when with more statistical confidence than Linear Regressions
- D. SLR can help quantify the significance of variation in X that influences the variation in Y via a mathematical equation
- E. A Correlation does not explain causation but a Regression Analysis with a statistically valid mathematical equation does explain causation

Correct Answer: ADE

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