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Vendor:GAQM

Exam Code:CLSSBB

Exam Name:Certified Lean Six Sigma Black Belt
(CLSSBB)

Version:Demo

QUESTION 1

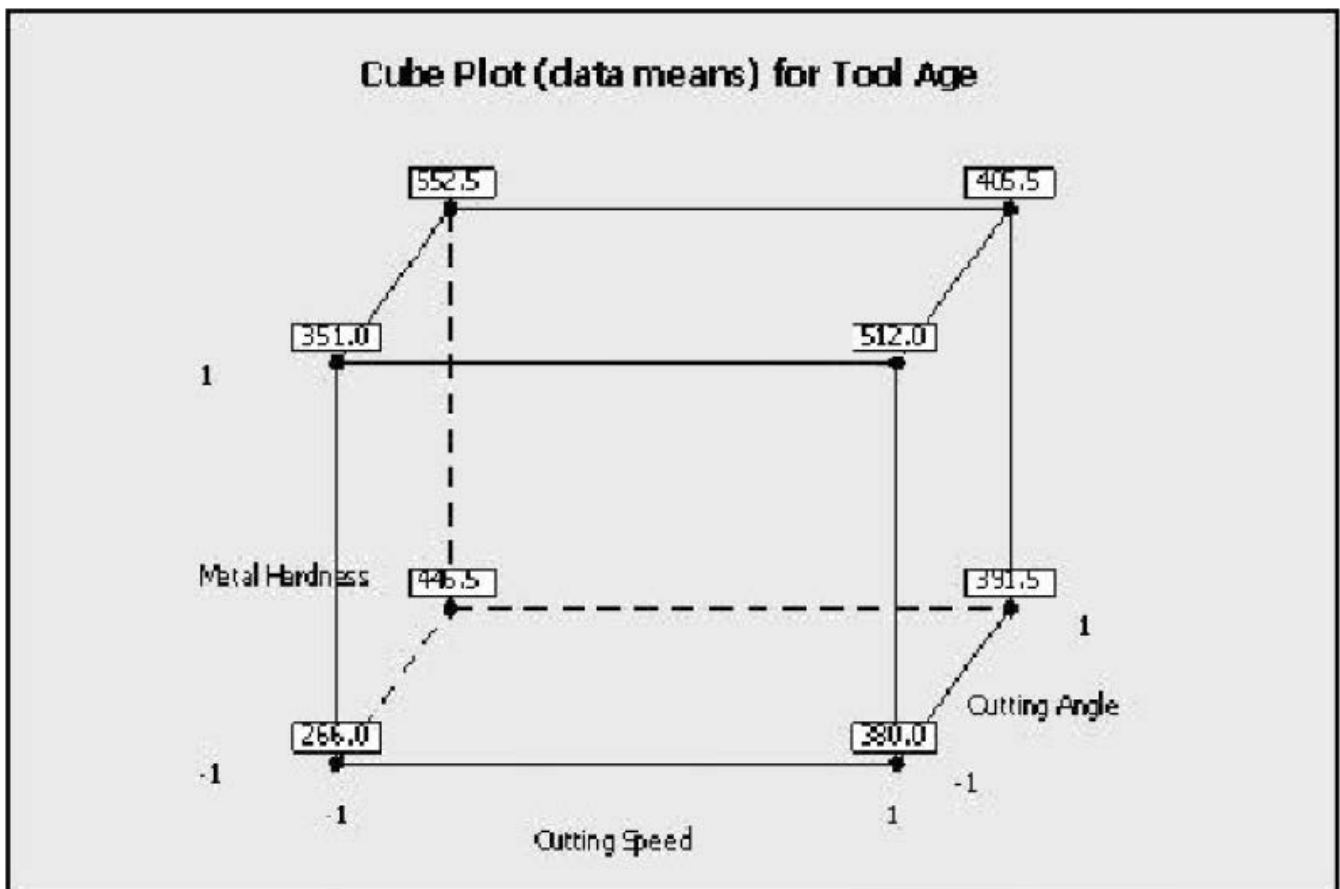
Sally and Sara sell flower pots at their garage sale. Sally motivates Sara mentioning that they will sell a minimum of 22 pots per day if the outside temperature exceeds 60o F. From a sample, whose population is assumed to follow a Normal Distribution, taken for 30 days at 60 degrees or more an average of 18.2 pots per day were sold with a Standard Deviation of 0.9 pots. What is the Z value for this sales process?

- A. 1.23
- B. 1.62
- C. 2.11
- D. 4.22

Correct Answer: D

QUESTION 2

Which statement(s) are correct about the Factorial Plot shown here? (Note: There are 3 correct answers).



- A. When the cutting speed increased from low to high level, the tool age increases

- B. The coefficient of the metal hardness is positively related to the output of tool age
- C. The coded coefficient is lower for cutting speed than the cutting angle related to the output of tool age
- D. These plots prove a statistically significance factor with 95% confidence
- E. These plots are an example of interaction plots

Correct Answer: ABC

QUESTION 3

Compared to a two-level factorial experiment, which of the following is an advantage of an experiment in three levels?

- A. Interaction effects can be estimated
- B. Curvature can be characterized
- C. The design can be augmented
- D. Efficiency is maximized in the experimental effort

Correct Answer: B

QUESTION 4

What is the value of the test statistic?

- A. 0.898
- B. 1.251
- C. 0.429
- D. 3.57
- E. none of the above

Correct Answer: E

Explanation: As per reference to the given table in the URL, the 0.05 at 6 is 2.447. Hence none of the answers are correct. Reference: <http://www.medcalc.org/manual/t-distribution.php>

QUESTION 5

An ANOVA used across many dependent variables could increase the Beta risk.

- A. True
- B. False

Correct Answer: B

QUESTION 6

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 7

A process can be defined as a repetitive and systematic series of steps or activities where inputs are modified or assembled to achieve a _____ result.

- A. Revenue total
- B. Customer desired
- C. Budgeted
- D. Financial

Correct Answer: B

QUESTION 8

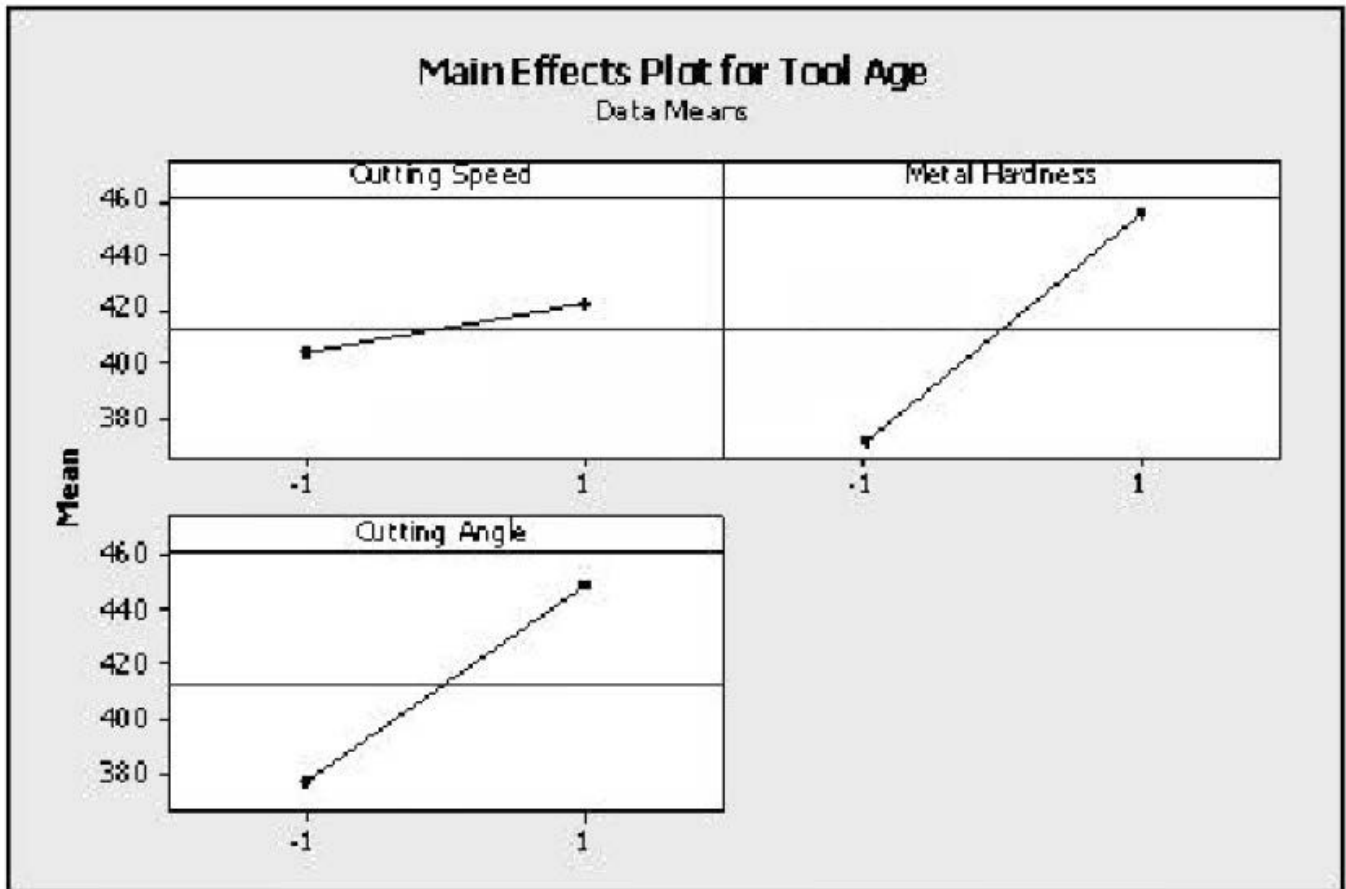
Fractional Factorial, _____ and Response Surface Method are types of planned experiments.

- A. Multi-Vari Analysis
- B. Baldrige Channels
- C. One Factor at a Time or OFAT
- D. Factorial Design

Correct Answer: D

QUESTION 9

Which statement(s) are correct about the DOE Factorial plot output here? (Note: There are 3 correct answers).



- A. Two factors were operated at 3 levels each
- B. The highest tool age was achieved with metal hardness at high level while keeping the cutting speed at the low level
- C. The design indicated above is a 32 factorial design
- D. The cutting speed and cutting angle are at the low level for the least tool age achieved
- E. All factors had 2 levels in the experiment

Correct Answer: BCE

QUESTION 10

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?

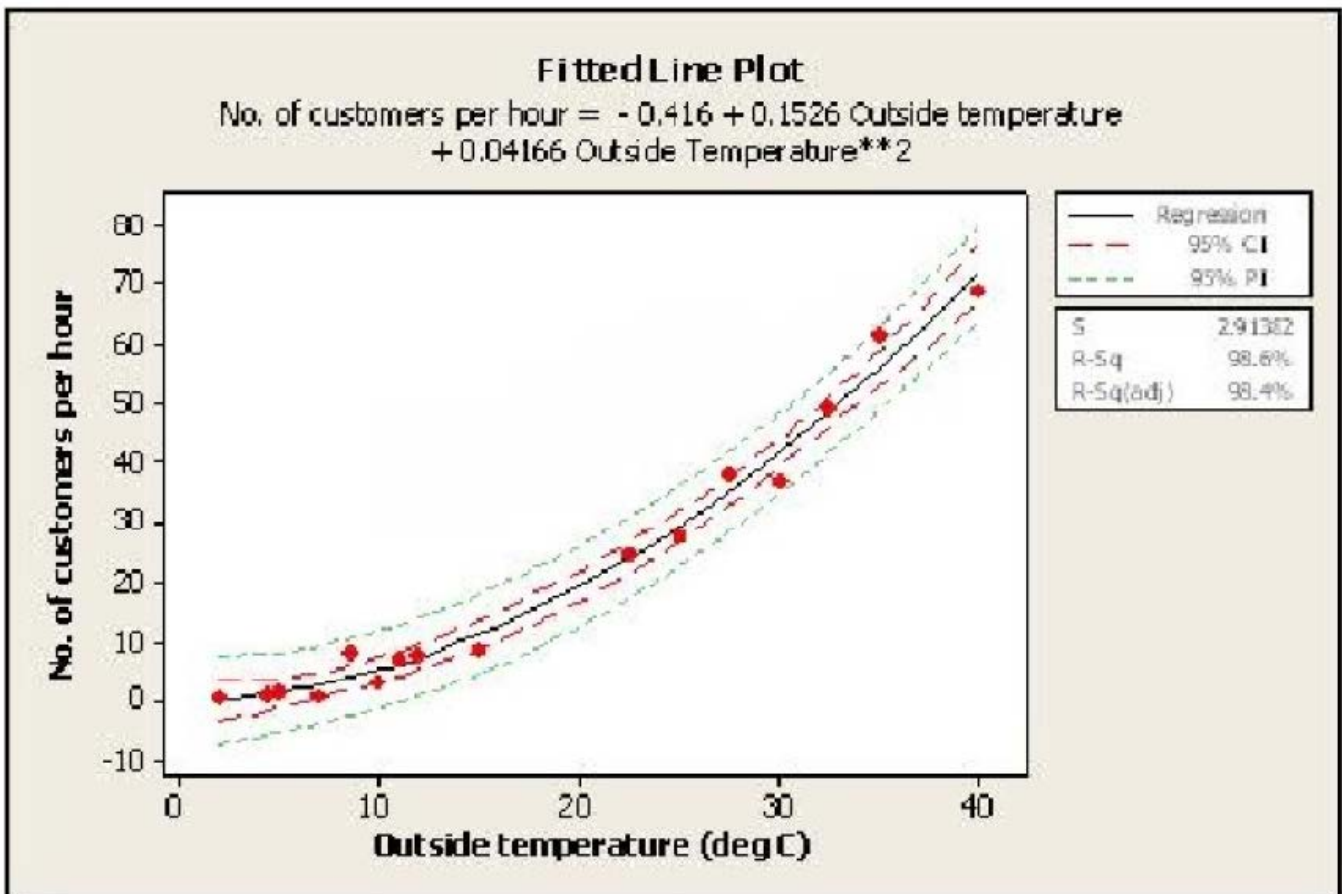
- A. The Standard Deviation is equal to \$300.
- B. The Mean is less than \$4,320.

- 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 11

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



- A. The dependent variable is the outside temperature
- B. The relationship between outside temperature and number of customers per hour is a Linear Regression
- C. The dashed lines indicate with 95% confidence where all of the process data should fall between
- D. The dashed lines indicate with 95% confidence the estimate for the Quadratic Regression Line
- E. The predicted number of customers per hour is close to 5 if the outside temperature is 10 deg C

Correct Answer: DE

QUESTION 12

In regression analysis, which of the following techniques can be used to reduce the higher- order terms in the model?

- A. Large samples
- B. Dummy variables
- C. Transformations
- D. Blocking

Correct Answer: C