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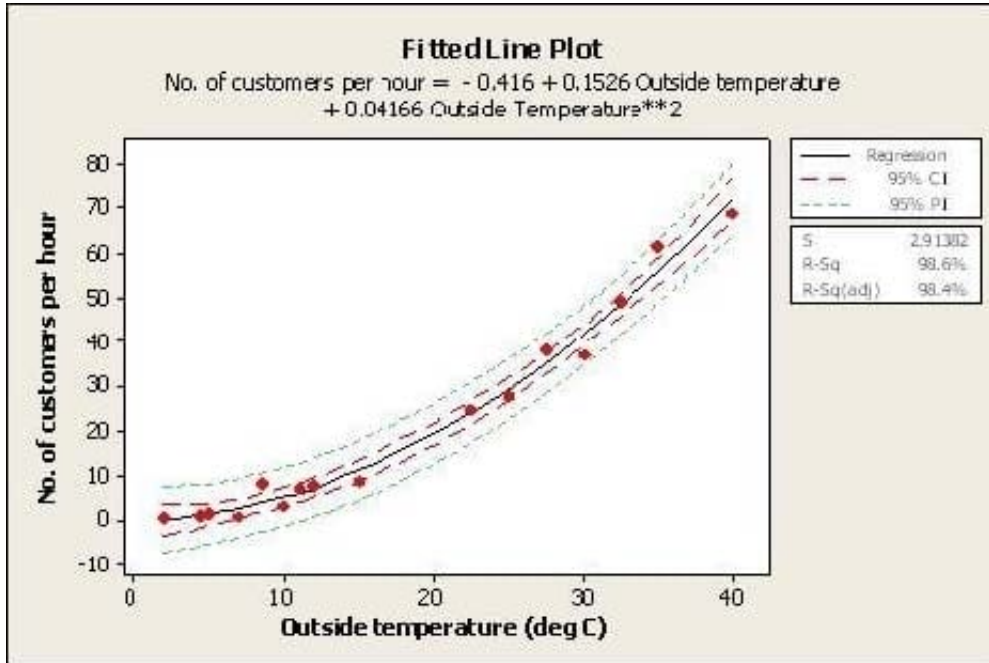
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QUESTION 1

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 2

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 3

What is correlation analysis?

- A. Testing of equality of means of two types of population
- B. To test the normality of a given set of data
- C. Equivalent to Gauge RandR study
- D. Power of linear relationship among variables

Correct Answer: D

QUESTION 4

Why do we use averages and sigma chart for large samples instead of averages and ranges chart?

- A. For large samples, a single extreme observation will have a significantly large effect on range, while its effect on standard deviation will be comparatively much less.
- B. Range is a better measure of dispersion than standard deviation.
- C. For large samples, calculation of range is laborious in comparison to standard deviation.
- D. None of the above.

Correct Answer: A

QUESTION 5

Poka-yoke is used to:

- A. Show the various alternatives possible and select an appropriate solution
- B. Quantify the decrease in perceived value of the goods by the customer once the quality decreases
- C. Identify and prevent incorrect components from being made or brought together
- D. Clarify several process steps and process flows which may not be understood clearly before

Correct Answer: C