



# Free Questions for **ICBB** by **braindumpscollection**

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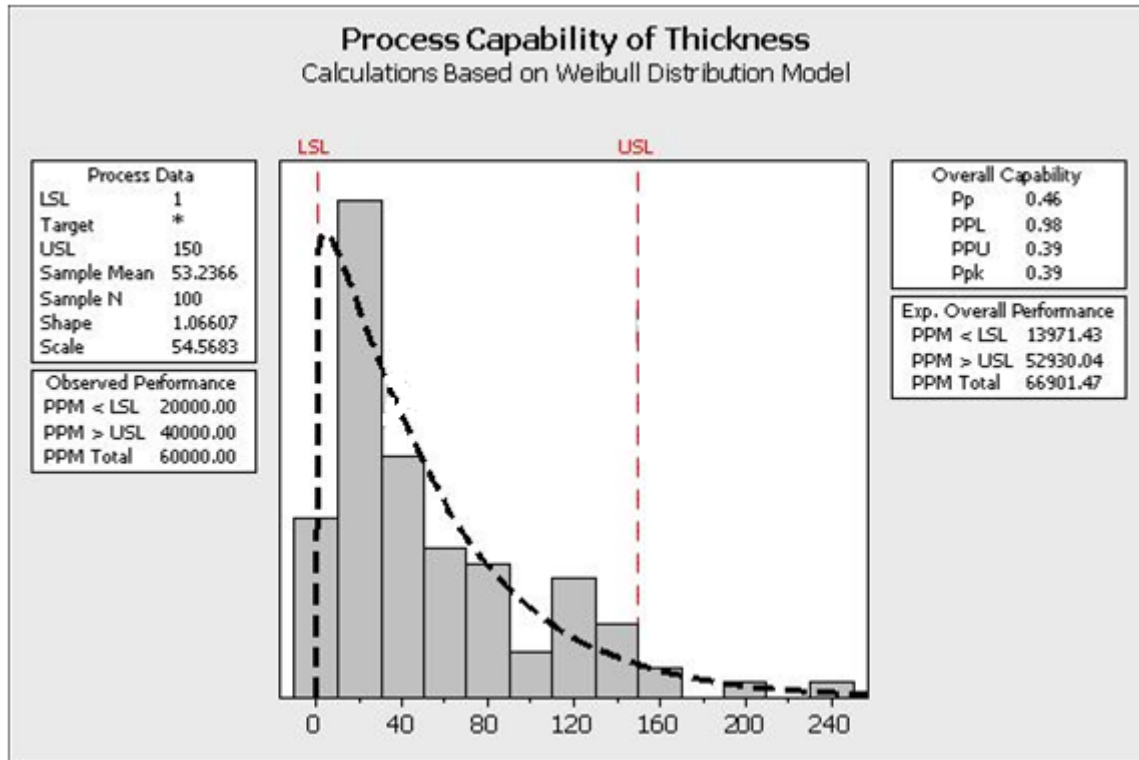
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# Question 1

## Question Type: MultipleChoice

Review the analysis shown here. Which statements are true about the process? (Note: There are 3 correct answers).



### Options:

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- A- The initial focus for this project would be to determine why the thicknesses are so frequently too low
- B- The majority of the process is closer to the lower specification limit
- C- This process is described with the Weibull Distribution
- D- The process has more problems with Variation than Centering
- E- The process follows a non-normal distribution with the given data

### Answer:

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B, D, E

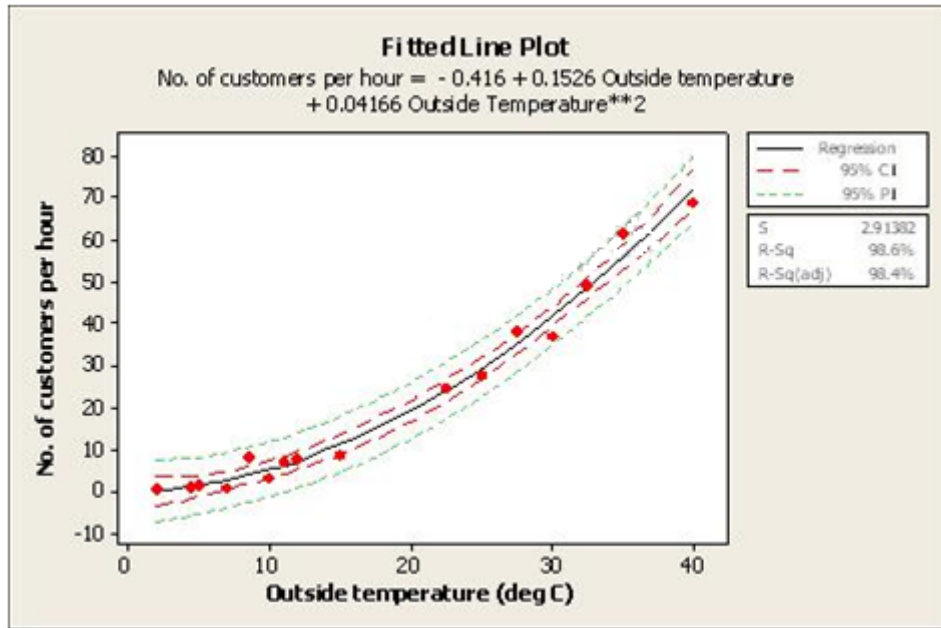
## Question 2

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**Question Type:** MultipleChoice

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



### Options:

- 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

**Answer:**

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D, E

## Question 3

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**Question Type:** MultipleChoice

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A valid mathematical Regression represents all of the characteristics shown except \_\_\_\_\_.

**Options:**

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- A-** All of the standardized residuals will be within 3 Standard Deviations
- B-** The sum of the residuals is zero
- C-** The residuals when plotted follow a Normal Distribution
- D-** Most standardized residuals are within 2 Standard Deviations
- E-** The Residual is equal to the difference between the observed and predicted values

**Answer:**

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A

## Question 4

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**Question Type:** MultipleChoice

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

### Options:

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

### Answer:

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A

## Question 5

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**Question Type:** MultipleChoice

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Contingency Tables are used to test for association, or dependency, between two or more classifications.

**Options:**

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**A-** True

**B-** False

**Answer:**

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A

## Question 6

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**Question Type:** MultipleChoice

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The calculation of Column Total times Row Total divided by Grand Total yields expected values from what type of chart?

**Options:**

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- A- Pareto Chart
- B- Sakami Table
- C- Contingency Table
- D- None

**Answer:**

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C

## Question 7

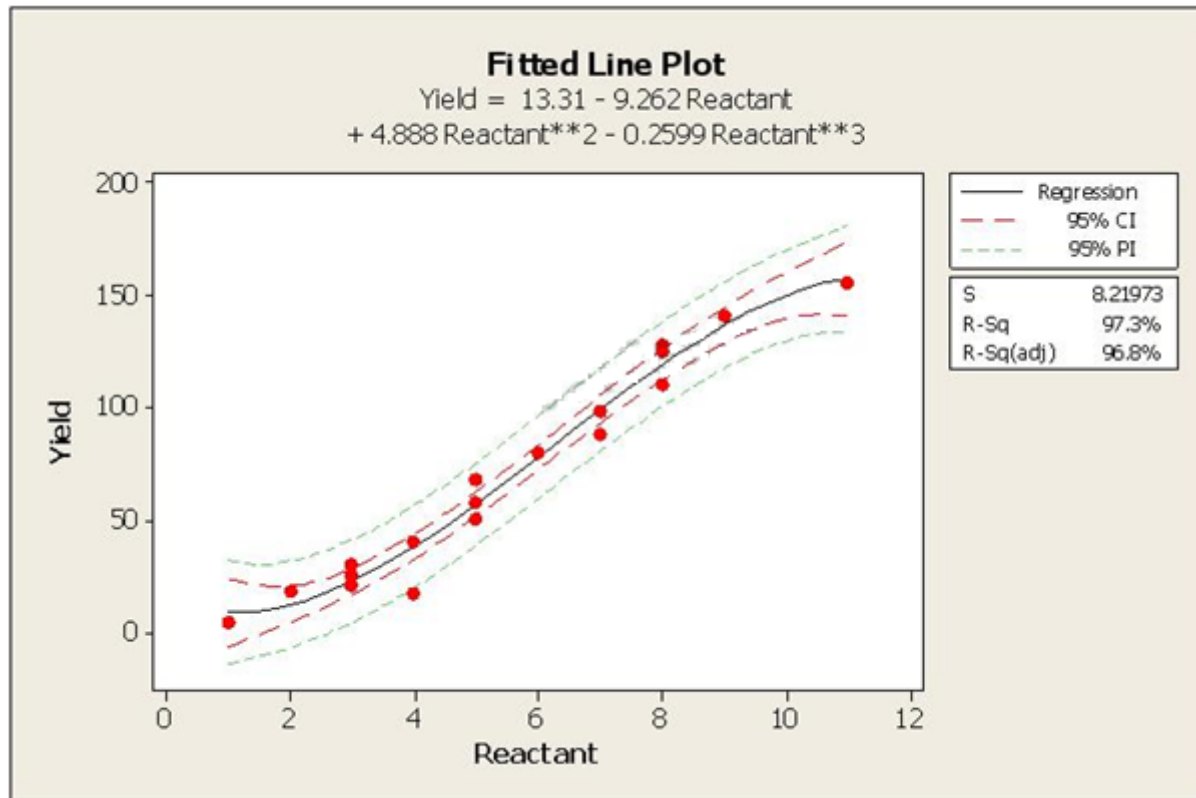
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**Question Type:** MultipleChoice

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Which statement is NOT correct about the Fitted Line Plot shown here?





**Options:**

- A-** The independent variable is the reactant
- B-** If the reactant was 10 units, with 95% confidence we would expect a minimum yield of 148 units
- C-** With at least 95% confidence, we can expect less than 10 units of Yield when the reactant is at a value of 1

- D- A reactant value between 6 and 8 units yields around 40 to 60
- E- When the reactant increases, the expected yield would increase

**Answer:**

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D

## Question 8

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**Question Type: MultipleChoice**

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A valid Multiple Linear Regression (MLR) is characterized by all of these except?

**Options:**

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- A- It is an assumption that the X's (inputs) are not correlated to each other
- B- The X's (inputs) are assumed to be independent of each other
- C- The Residuals from MLR analysis have to be Normally Distributed
- D- MLR is conducted based on a deliberate form of experimentation
- E- It is not possible to evaluate interactions in a MLR analysis

**Answer:**

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D

## Question 9

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**Question Type:** MultipleChoice

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

**Options:**

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- 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

**Answer:**

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A, D, E

## Question 10

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**Question Type:** MultipleChoice

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When a Belt properly analyzes the results of an experiment he must examine the Residuals in expectation of finding all of the following except \_\_\_\_\_.

### Options:

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- A- Some Residuals higher than others
- B- Residuals will represent a Linear Regression
- C- All Residuals within 2 Standard Deviations of the Mean
- D- Some Residuals lower than others

### Answer:

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B

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