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**Vendor:**ASQ

**Exam Code:**CSSBB

**Exam Name:**Six Sigma Black Belt Certification -  
CSSBB

**Version:**Demo

**QUESTION 1**

If the results from a Hypothesis Test are located in the "Region of Doubt" area, what can be concluded?

- A. Rejection of the Alpha
- B. We fail to reject the Null Hypothesis
- C. The test was conducted improperly
- D. We reject the Null Hypothesis

Correct Answer: D

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**QUESTION 2**

If a process has subgroups for Variable data and the process runs for a long period of time, then the best pair of SPC Charts to use would be an Xbar and \_\_\_\_\_.

- A. NP Chart
- B. Individuals Chart
- C. R Chart
- D. C Chart

Correct Answer: C

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**QUESTION 3**

The English words used for the 5S's are Sorting, Straightening, \_\_\_\_\_, \_\_\_\_\_ and Sustaining. (Note: There are 2 correct answers).

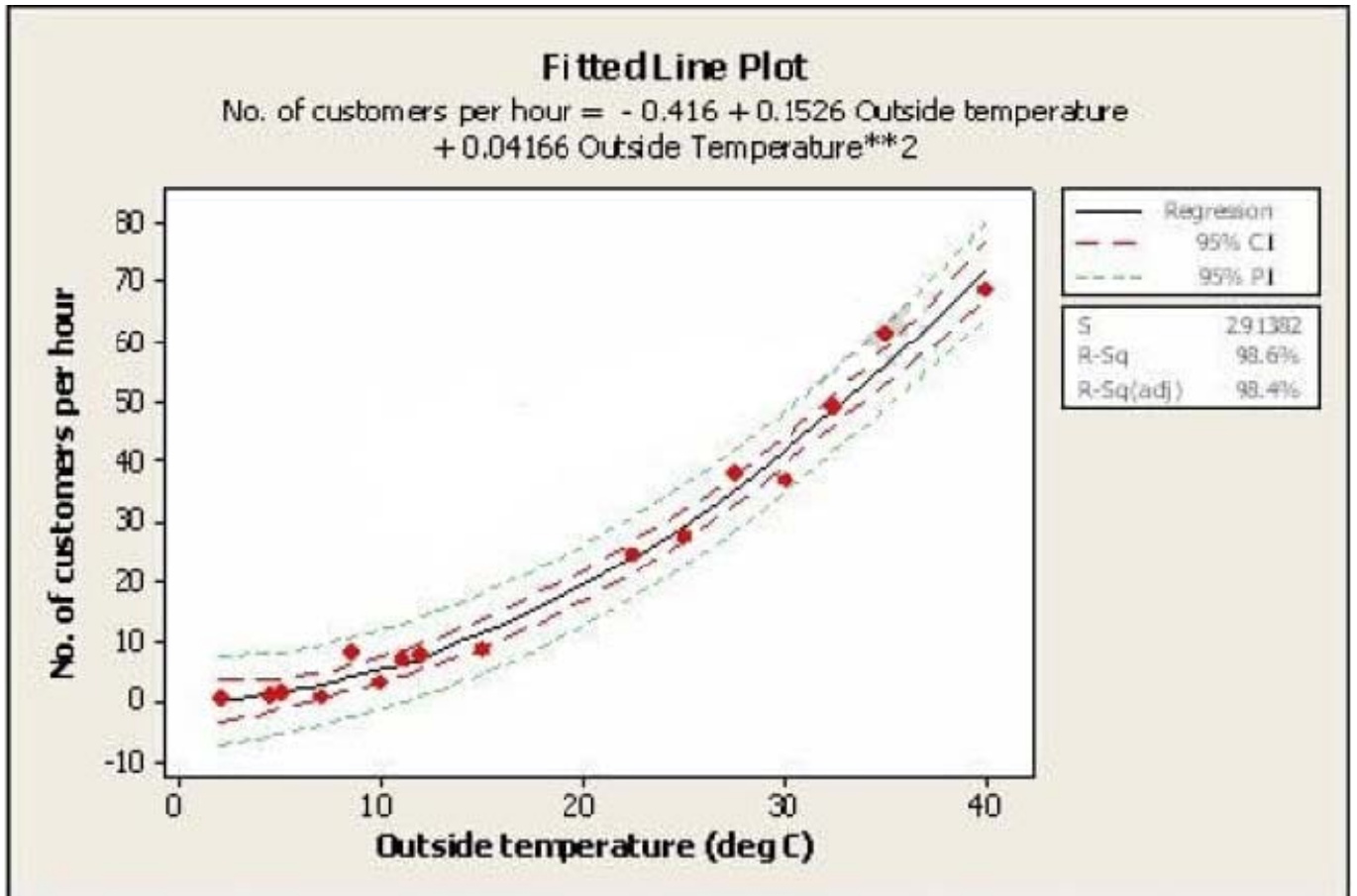
- A. Shaping
- B. Shining
- C. Standardizing
- D. Signing

Correct Answer: BC

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**QUESTION 4**

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 5

Which of the items listed do not define what an X-Y Diagram is?

- A. Created for every project
- B. Based on team's collective opinions
- C. Updated whenever a parameter is changed
- D. Used to show each step in a process

E. A living document throughout project lifecycle

Correct Answer: D

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### QUESTION 6

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. Select the answer that best states the Practical Problem.

- A. If the average cost per component is \$4,200 or less, then the purchase manager will introduce the new product upgrade with new components
- B. If the average cost per component is greater than \$4,200, then the purchase manager will introduce the new product upgrade with new components
- C. Only if the average cost per product upgrade is \$4,060, will the purchase manager introduce new product upgrades with new components
- D. If the average cost per new product upgrade is less than \$180, then the purchase manager will introduce the new product upgrade with new components

Correct Answer: C

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### QUESTION 7

A natural logarithmic base is not required for which of these distributions for probability calculations?

- A. Weibull
- B. Binomial
- C. Poisson
- D. Normal

Correct Answer: D

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### QUESTION 8

The reported Cpk for a process with an average of 104 units, a spread of 18 units and upper and lower specification limits of 122 and 96 units would be?

- A. 0.5
- B. 0.89
- C. 1.00

D. 2.00

Correct Answer: B

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### QUESTION 9

If an experiment has 5 factors and no replicates for a 2-level Experimental Design with 16 experimental runs which statement is incorrect?

- A. The Experimental Design is half-fractional
- B. The Main Effects are confounded with only 4-way interactions
- C. The Main Effects for the 5 factors are not aliased or confounded but the 2-way interactions are confounded with the 3-way interactions
- D. The experiment has 8 experimental runs with the first factor at the high level

Correct Answer: C

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### QUESTION 10

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

#### Regression Analysis: Turbine Output versus Air-Fuel Ratio, % steam, ...

The Regression Equation is

$$\text{TurbineOutput} = 16.5 + 3.21 \text{ Air-Fuel Ratio} + 0.386 \% \text{ methane} + 0.0166 \text{ SteamExitTemp}$$

Predictor	Coef	SE Coef	T	P
Constant	16.488	2.918	5.65	0.000
Air-Fuel Ratio	3.2148	0.2377	13.52	0.000
% methane	0.38637	0.07278	5.31	0.000
SteamExitTemp	0.016576	0.004273	3.88	0.004

S = 0.508616 R-Sq = 98.6% R-Sq (adj) = 98.2%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	3	170.003	56.668	219.06	0.000
Residual Error	9	2.328	0.259		
Total	12	172.331			

Source	DF	Seq SS
Air-Fuel Ratio	1	159.048
% methane	1	7.062
SteamExitTemp	1	3.892

- A. The air-fuel ratio explains most of the TurbineOutput variation
- B. The Regression explains over 98% of the process variation
- C. This Multiple Linear Regression has three statistically significant independent variables
- D. If the air-fuel ratio increases by 1, the TurbineOutput more than triples

E. The SteamExitTemp explains the most variation of the TurbineOutput

Correct Answer: DE

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**QUESTION 11**

An operator is measuring the distance between two points. Which is most likely to be influenced by the operator?

- A. Precision of the measurement
- B. Accuracy of the measurement
- C. Calibration of the instrument
- D. All of these answers are correct

Correct Answer: D

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**QUESTION 12**

Which of these items contribute to what is necessary for successful Kaizen events?

- A. Analysis tools
- B. Management support
- C. Operator support
- D. All of these answers are correct

Correct Answer: D