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Six Sigma ICBB

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QUESTION NO: 1

The _____ is the most frequently occurring value in a distribution of data.

A. Median

B. Mean

C. Center Point

D. Mode

ANSWER: D

QUESTION NO: 2

When conducting a Hypothesis Test using Continuous Data the proper sample size is influenced by the extent to which we need to assess a Difference to be detected and the inherent variation in the process.

A. True

B. False

ANSWER: A

QUESTION NO: 3

Kaizens or Kaikakus and Six Sigma projects are intended to create incremental process improvements versus breakthrough, significant improvements.

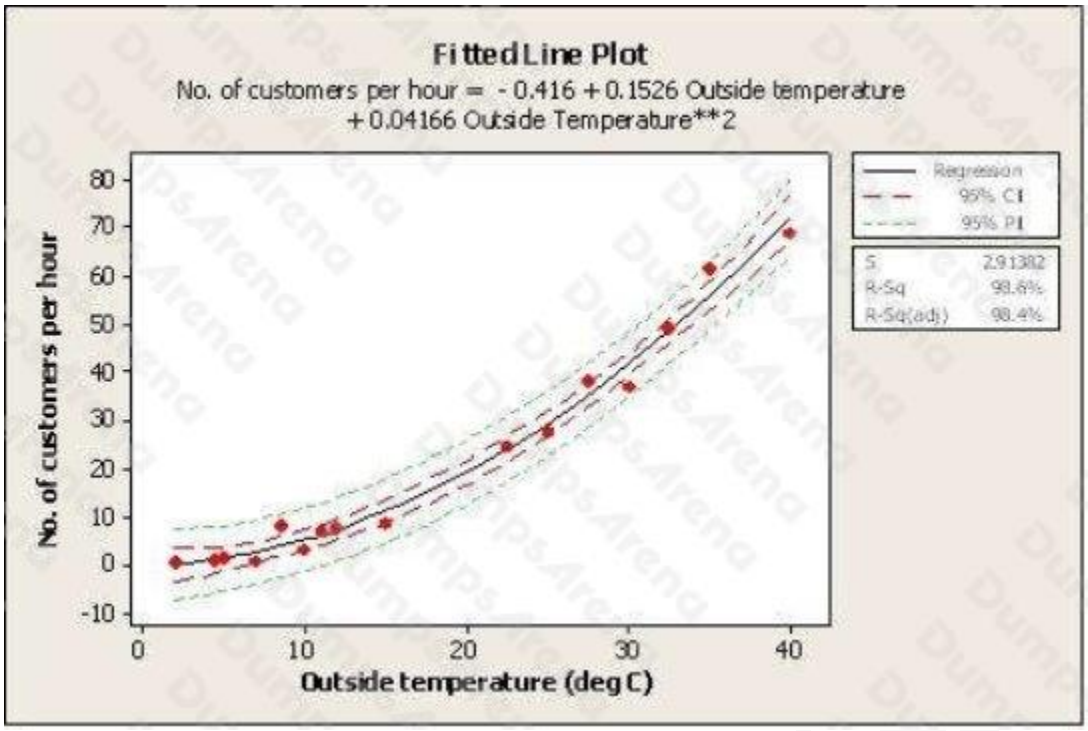
A. True

B. False

ANSWER: B

QUESTION NO: 4

Which statement(s) are correct about the Regression shown here? (Choose two.)



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: D E

QUESTION NO: 5

If an experiment has 5 factors and no replicates for a 2-level Experimental Design with 16 experimental runs which statement(s) are correct? (Choose three.)

A. The Main Effects for the 5 factors are not aliased or confounded but the 2-way interactions are confounded with the 3-way interactions

B. The Main Effects are confounded with only 4-way interactions

C. The Experimental Design is half-fractional

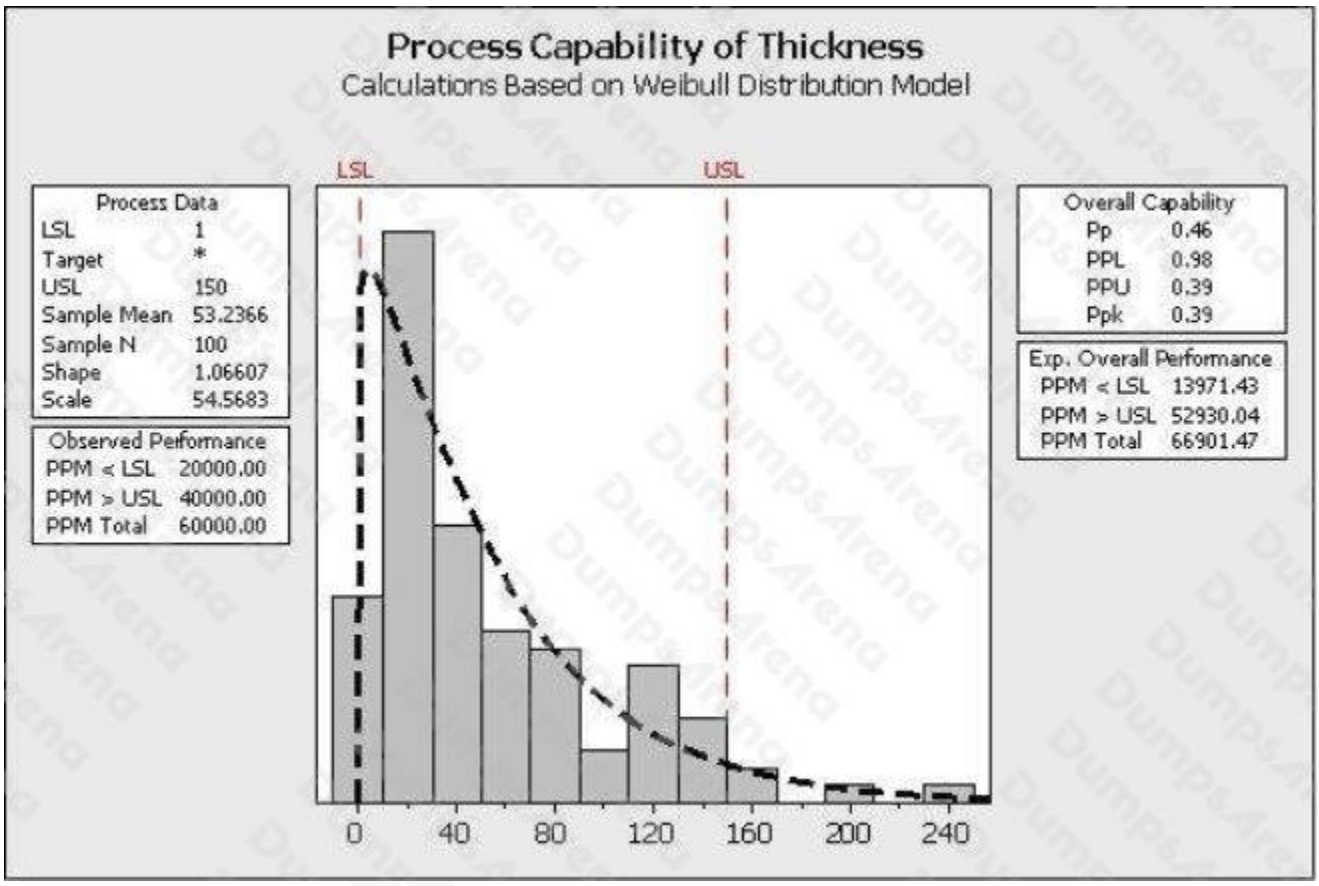
D. The experiment has 8 experimental runs with the first factor at the high level

E. The experiment has only 4 experimental runs with the 5th factor at the high level

ANSWER: B C D

QUESTION NO: 6

Review the analysis shown here.



Which statements are true about the process? (Choose three.)

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: B D E

QUESTION NO: 7

Which of the following statements emphasizes the importance of coded data in a six sigma project?

A. Coded data is the most important tool used in the statistical process control

B. All items of interest can be coded

C. Coded data is easily presentable

D. Coded data is essential for subsequent processes, analysis, and reporting

ANSWER: D

QUESTION NO: 8

The Mann-Whitney test is a powerful test and is unique to situations from which of the choices listed? (Choose two.)

A. Testing the identity of two populations

B. Focuses on equality of the Median of the two populations

C. Less powerful than the traditional “t-test”

D. More widely applicable than the traditional “t-test”

ANSWER: B D

QUESTION NO: 9

Which of the following is not a disadvantage of the 5 Whys?

A. The 5 Whys can be subjective

B. If the investigators do not possess enough skill and knowledge on the topic, they cannot find the causes of the problem

C. The 5 Whys cannot be easily learnt and applied as it requires no statistical analysis

D. The 5 Whys help to identify only one root cause of a problem

ANSWER: C

QUESTION NO: 10

What is calibration system?

A. Process of determining and adjusting an instrument’s accuracy to make sure it is within the manufacturer’s specification

B. Process of checking or adjusting the products accuracy

C. Process of allocating the goods

D. Process of determining the product's prices

ANSWER: A

QUESTION NO: 11

_____ creates fool proof method so that normal and abnormally are easily visualized in workspace.

A. Selketsu

B. Shitsuke

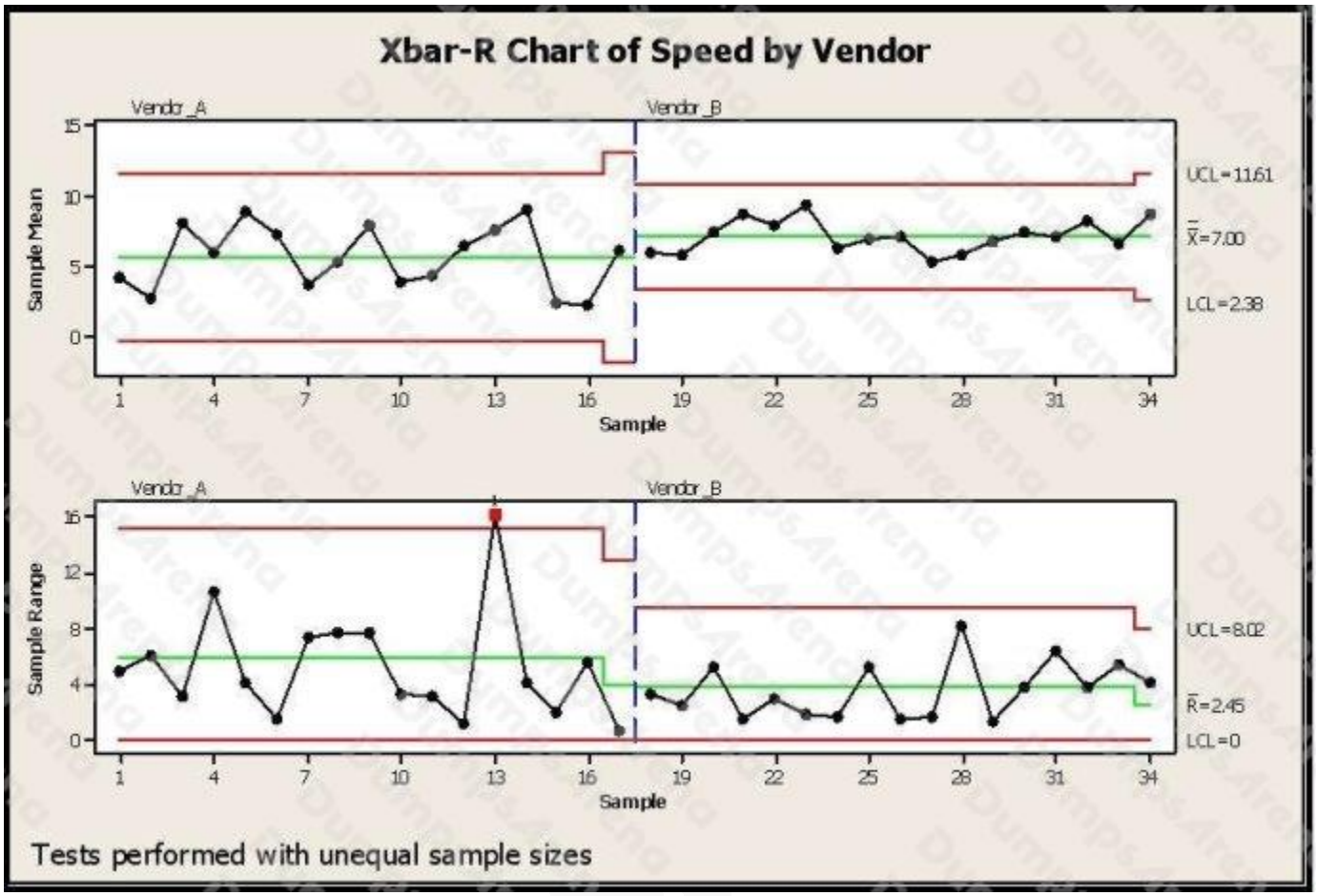
C. Seiri

D. Seiso

ANSWER: C

QUESTION NO: 12

SPC Charts are used extensively in different business and decision-making environments. In this example a vendor is being selected based on speed of delivery. Which of the conclusions would help you pick a vendor for your needs regarding lead-time of delivery from your vendors? (Choose four.)



A. Vendor A with a much shorter lead time in delivery

B. Vendor B as it has a better consistency (lower variance) on lead time

C. Vendor B as Vendor A shows a situation out of control as shown in red

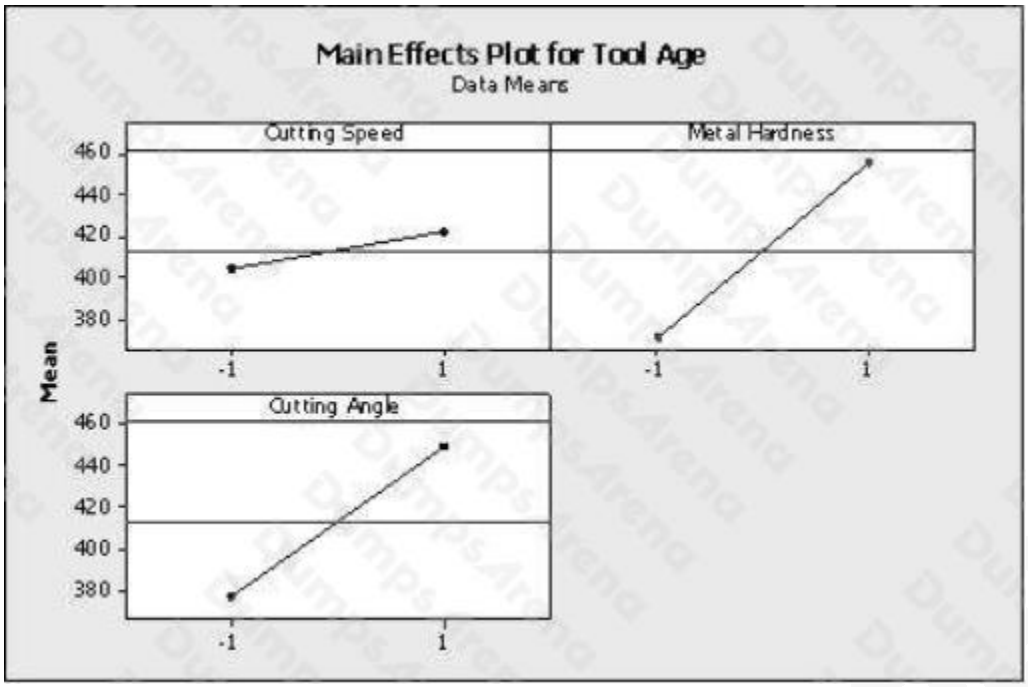
D. Vendor B as the Control Limits are much narrower than Vendor A

E. Vendor B with higher lead time, but a process with much narrower Control Limits

ANSWER: B C D E

QUESTION NO: 13

Which statement(s) are correct about the DOE Factorial plot output here? (Choose three.)



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

ANSWER: B C E

QUESTION NO: 14

A Full Factorial experiment using a 2 level 4 factor approach has been proposed to test the viability of an extrusion machine experiment. How many treatment combinations will this approach involve?

A. 8

B. 16

C. 32

D. 64

ANSWER: B

QUESTION NO: 15

Which item(s) listed would impact the Process Capability for a process with a continuous output?

(Choose four.)

A. Shape of process data distribution (e.g. Normal Distribution)

B. Process Technology

C. Process Standard Deviation

D. Presence of Special Causes or solely Common Causes

E. Seasonal variation in process

ANSWER: A C D E