

# DUMPSQUEEN

## IASSC Lean Six Sigma – Black Belt

Six Sigma ICBB

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## QUESTION NO: 1

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: 2

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

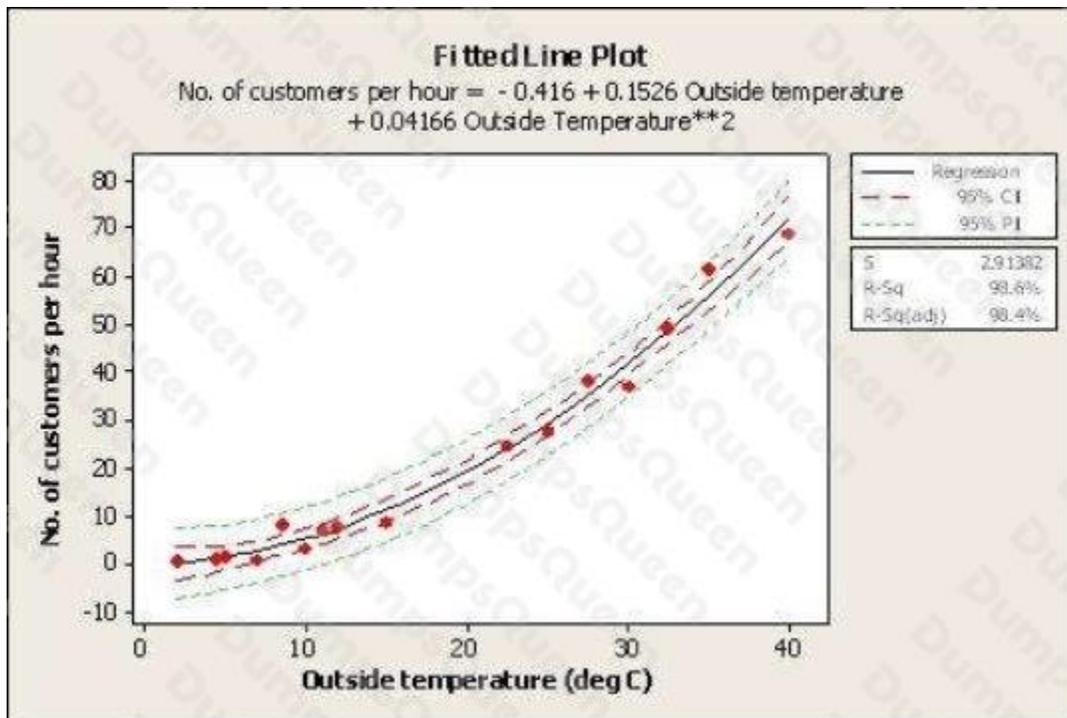
(Choose four.)

- 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**

## QUESTION NO: 3

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: 4

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: 5**

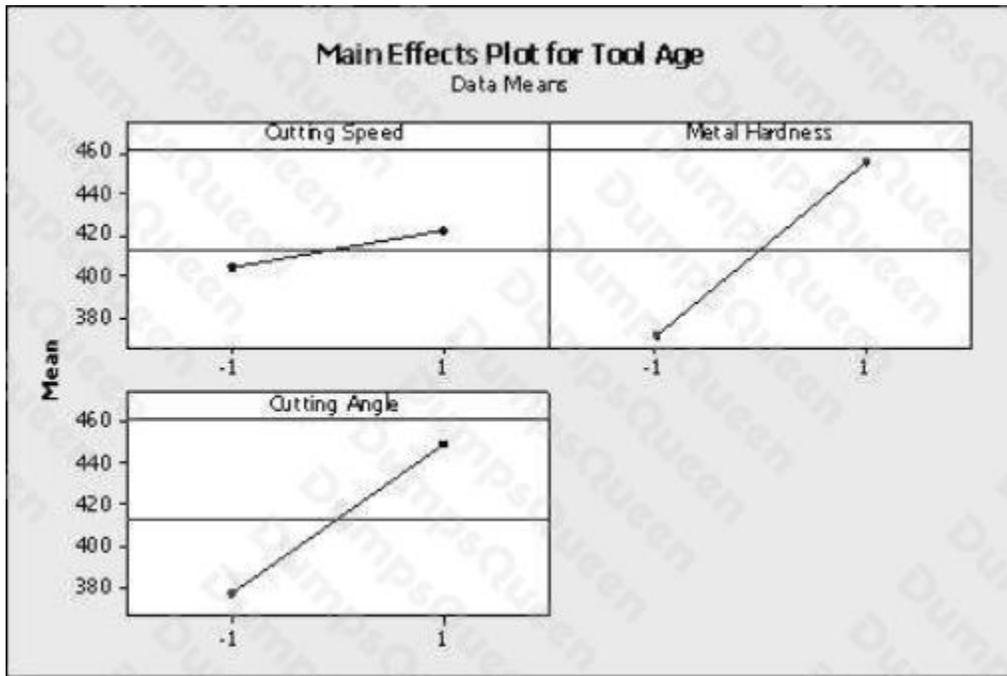
\_\_\_\_\_ creates fool proof method so that normal and abnormally are easily visualized in workspace.

- A. Selketsu
- B. Shitsuke
- C. Seiri
- D. Seiso

**ANSWER: C**

**QUESTION NO: 6**

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: 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

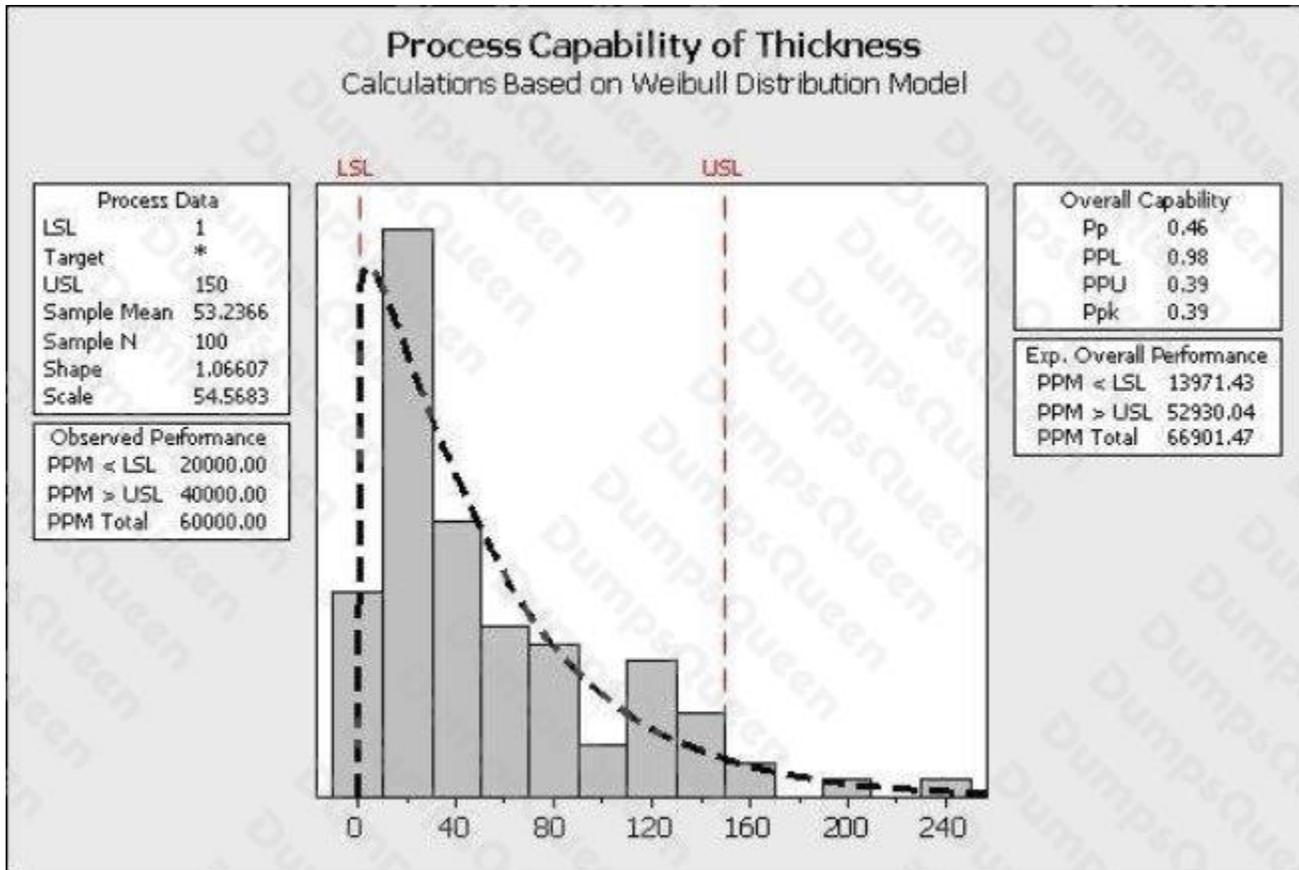
If an experiment has 5 factors and no replicates for a 2-level Experimental Design with 16 experimental runs which statement(s) are correct? (Choose three.)

- 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: 9

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: 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

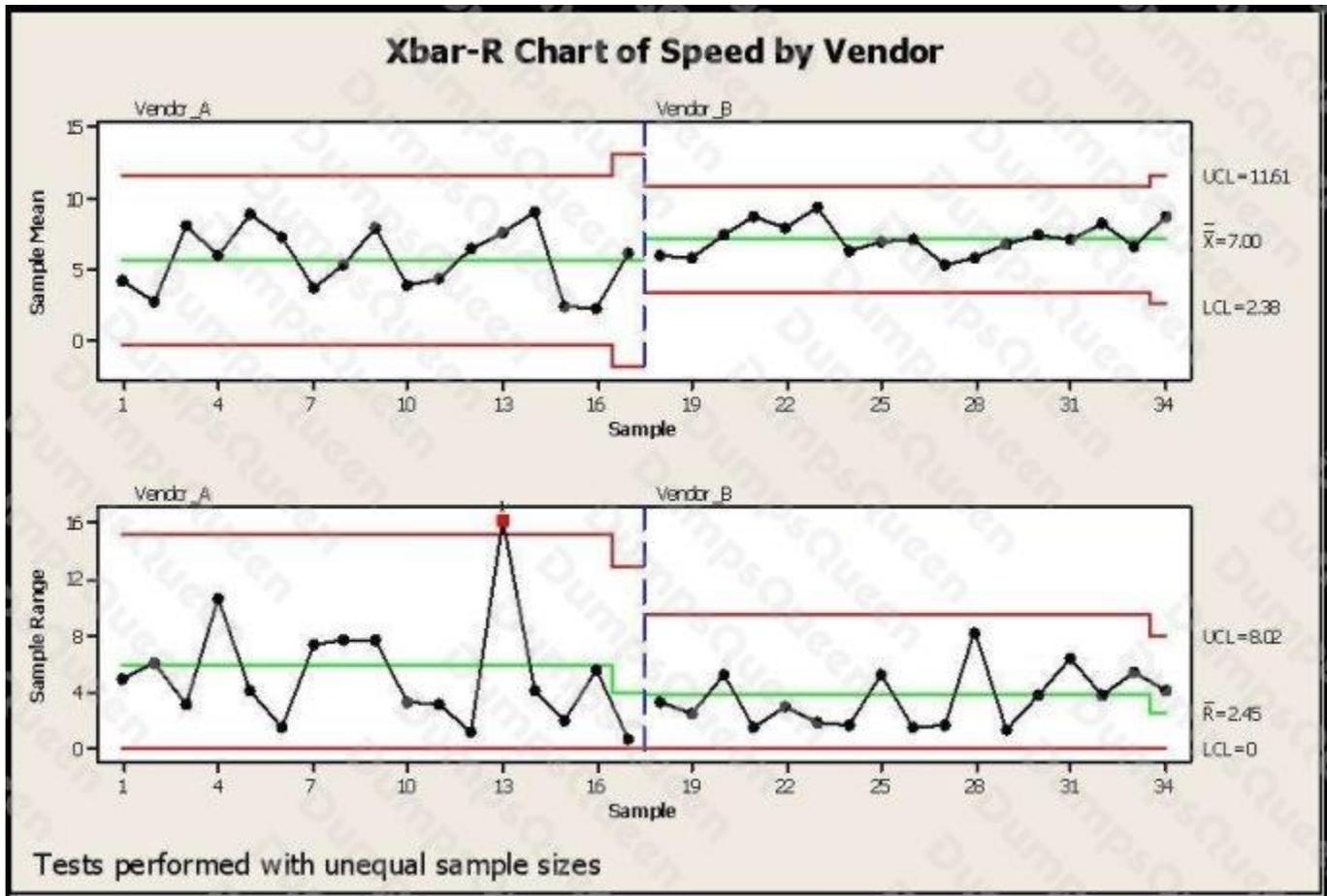
Which of the following is not a disadvantage of the 5 Whys?

- 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: 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**

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: 14

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: 15

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**