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Question 1

Question Type: MultipleChoice

A Non-parametric Test should be used if just one distribution is not Normal out of the two or more gathered.

Options:

A- True

B- False

Answer:

A

Question 2

Question Type: MultipleChoice

An ANOVA used across many dependent variables could increase the Beta risk.

Options:

A- True

B- False

Answer:

B

Question 3

Question Type: **MultipleChoice**

The relationship between a response variable and one or more independent variables is investigated and modeled by use of which of these?

Options:

A- X-Y Matrix

B- Baldridge Assessment

C- Critical X's Definition

D- Analysis of Variance (ANOVA)

Answer:

D

Question 4

Question Type: MultipleChoice

Sally and Sara sell flower pots at their garage sale. Sally motivates Sara mentioning that they will sell a minimum of 22 pots per day if the outside temperature exceeds 60o F. From a sample, whose population is assumed to follow a Normal Distribution, taken for 30 days at 60 degrees or more an average of 18.2 pots per day were sold with a Standard Deviation of 0.9 pots. What is the Z value for this sales process?

Options:

A- 1.23

B- 1.62

C- 2.11

D- 4.22

Answer:

D

Question 5

Question Type: MultipleChoice

Sally and Sara sell flower pots at their garage sale. Sally motivates Sara mentioning that they will sell a minimum of 15 pots per day if the outside temperature exceeds 60o F. From a sample, whose population is assumed to follow a Normal Distribution, taken for 30 days at 60 degrees or more an average of 13.6 pots per day were sold with a Standard Deviation of 0.7 pots. The statistical Degrees of Freedom for this example are?

Options:

A- 1

B- 29

C- 30

D- 31

E- 2

Answer:

B

Question 6

Question Type: **MultipleChoice**

Sally and Sara sell flower pots at their garage sale. Sally motivates Sara mentioning that they will sell a minimum of 15 pots per day if the outside temperature exceeds 60o F. From a sample, whose population is assumed to follow a Normal Distribution, taken for 30 days at 60 degrees or more an average of 13.6 pots per day were sold with a Standard Deviation of 0.7 pots. For the sales accomplished above, what test would validate if they met their requirements?

Options:

A- F Test

B- Test for Equal Variance

C- Chi Square Test

D- One-Sample t-Test

Answer:

D

Question 7

Question Type: MultipleChoice

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. In order to increase the Long Term Z value to 4, what is the maximum long term variation in pricing the Belt can accept for his upgraded critical raw material component?

Options:

A- $20

B- $35

C- $70

D- $110

Answer:

B

Question 8

Question Type: **MultipleChoice**

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 $2,800 in order to stay within budget. Using a sample of 55 first article components, a Mean of the new product upgrade price of $2,240 and a Standard Deviation of $120 was estimated. Based on the data provided, the Z value for the data assuming a Normal Distribution is?

Options:

A- 2.33

B- 4.67

C- 6.48

D- 8.28

Answer:

B

Question 9

Question Type: MultipleChoice

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. The Alternative Hypothesis in the above example is?

Options:

A- The Standard Deviation is equal to $300

B- The Mean is less than $4,320

C- The Mean is equal to $4,060

D- The Mean is less than $4,200

E- The Mean is greater than $ 4,200

Answer:

E

Question 10

Question Type: **MultipleChoice**

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.

Options:

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

Answer:

C

Question 11

Question Type: MultipleChoice

Which of these might contribute to similar distributions having Unequal Variance?

Options:

A- Extreme tails

B- Outliers

C- Multiple Modes

D- All of the above

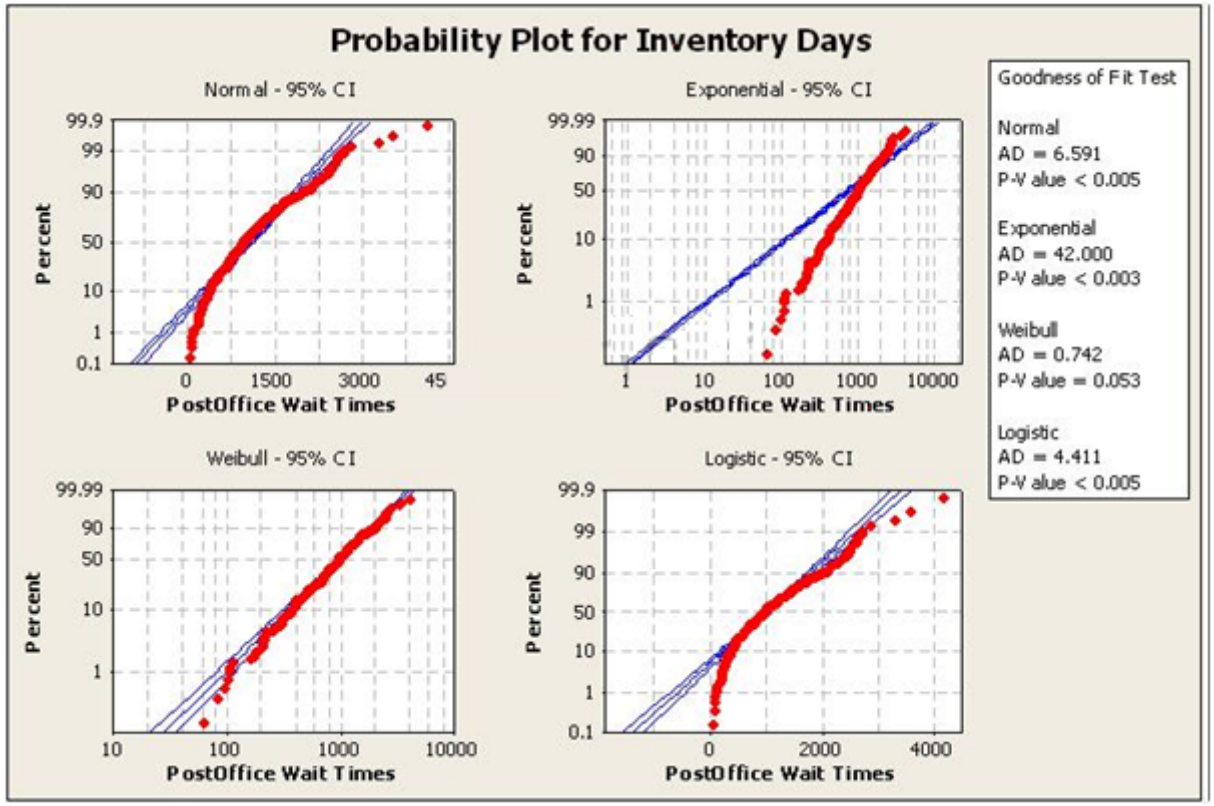
Answer:

D

Question 12

Question Type: **MultipleChoice**

A Lean Six Sigma project is attempting to reduce inventory days. The Process Capability will be monitored as part of the Control Phase to track the sustainability of the improvement.



Which distribution type is best used for performing the Capability Analysis?

Options:

A- Weibull Distribution

B- Normal Distribution

C- Exponential Distribution

D- Logistic Distribution

E- Gaussian Distribution

Answer:

A