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QUESTION 1

The DMAIC approach to problem solving stands for Define, Measure, Analyze, _____ and Control.

A. Improve

B. Identify

C. Itemize

D. Initiate

Correct Answer: A

QUESTION 2

With a Fishbone Diagram we use the legs to define each source of a potential defect and along the legs we enter each potential means by which a defect could be introduced into our process.

A. True

B. False

Correct Answer: A

QUESTION 3

The design and code review effort is high (process is effective) in a project, and it results in less number of defects injected in UAT phase. Identify the appropriate type of correlation between review effort and number of defects. (Assume that "r" value is good).

A. Positive Correlation

B. Strong Negative Correlation

C. Non linear Correlation

D. Strong Positive Correlation

Correct Answer: B

QUESTION 4

One of the primary objectives of constructing an X-Y Diagram is to separate the vital few X\\'s from the trivial many X\\'s.

A. True

B. False

Correct Answer: A

QUESTION 5

What percentage of data is included in +/- 1.5 Sigma?

A. 43.32 %

B. 86.64 %

C. 68.24 %

D. 0 %

Correct Answer: C

QUESTION 6

You are a Project Manager wanting to compare on time delivery (%) of Team Leads across 4 teams, your choice of technique would be?

A. Hypothesis Testing

B. Histograms

C. Pareto chart

D. Box Plots

Correct Answer: D

QUESTION 7

Upon completion of a project a Belt must complete the Documentation Plan then transfer responsibility for this to the _____.

A. Project Review Committee

B. Division Manager

C. Sales Team

D. Process Owner

Correct Answer: D

QUESTION 8

For a Normal Distribution the Mean, Median and Mode are the same data point.
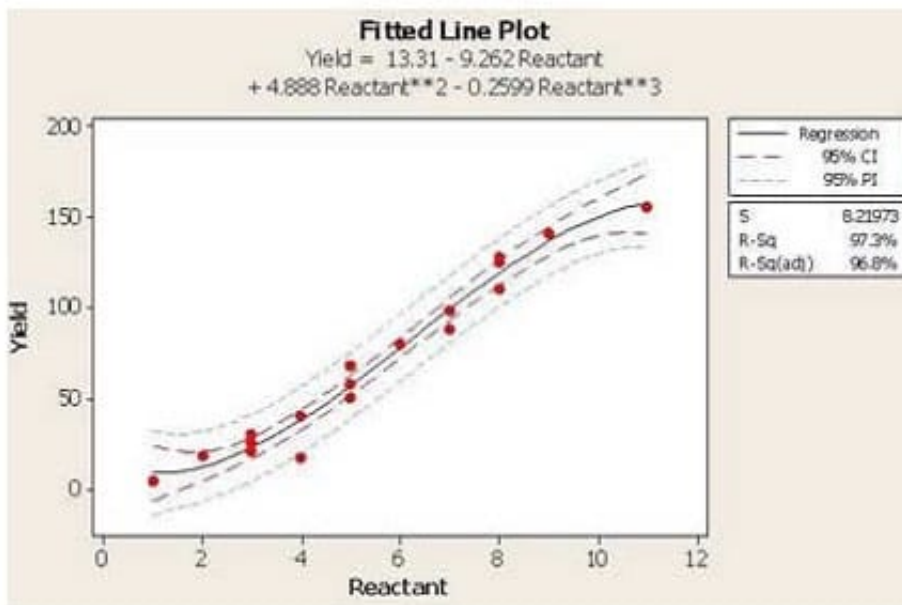
A. True

B. False

Correct Answer: A

QUESTION 9

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

A. The independent variable is the reactant

B. If the reactant was 6 units, with 95 % confidence we would expect a minimum yield of 100 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 2 and 4 units yields around 20 to 40

Correct Answer: D

QUESTION 10

_____ helps to understand Process behavior for parametric distribution.

A. Median

B. Range

C. Mean

D. Variance

Correct Answer: C

QUESTION 11

In a process FMEA, one must first:

A. Reduce the probability of occurrence

B. Reduce the severity

C. Increase the probability of detection

D. All of the above

Correct Answer: B

QUESTION 12

The length of wooden beams being sawed is measured by a line operator. Which is least likely to be influenced by the instrument?

A. Calibration of the instrument

B. Actual temperature of the liquid

C. Recording the measurement

D. Reading of the instrument

Correct Answer: C

QUESTION 13

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 60?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?

A. 1

B. 29

C. 30

D. 31

Correct Answer: B

QUESTION 14

A _____ is a graphical presentation of sample data that shows the number of times that a data point is a specific number.

A. Fishbone Diagram

B. Histogram

C. Pie Chart

D. Box Plot

Correct Answer: B

QUESTION 15

Due to excessive pollution, GREEN Solutions Inc. is considering subsidizing public transportation to work for its employees. According to the manager it takes an average weekday commute of 39 minutes with a Standard Deviation of 7 minutes for the employees to get to work while they use their personal vehicles for their office commute while the management set a policy of not more than 40 minutes for their daily one-way commute. A survey conducted one day on 70 employees showed an average of 34 minutes commuting time using the metro public transportation system with a Standard Deviation of 21 minutes. Assuming a Normal Distribution for the commute times by either personal or public transportation, which of these is true?

A. The probability that they would arrive on time using personal vehicles is much higher than using the metro public transportation system (MPTS)

B. The probability that they would arrive on time using the MPTS is much higher than using their personal vehicles

C. The two probabilities are about the same excepting in one case the consistency is higher than the other

D. We need to compile more data around weekends to incorporate for traffic differences

Correct Answer: B

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