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QUESTION 1

For a batch manufacturing process, while assessing short term process variation, which variation category (ies) should one need to focus on? (Note: There are 2 correct answers).

A. Variation within consecutive pieces

B. Variation among consecutive batches

C. Variation among groups of pieces

D. Variation among the completed product

Correct Answer: AB

QUESTION 2

= 0.05 The average weight of castings produced at the Nebraska foundry is 3.7 lbs. A new supplier from Kansas has submitted a batch of castings known to have normally distributed weights. A random sample of 10 has an average weight of 3.6 lbs. and standard deviation 0.06 lbs. Do these data indicate that the Kansas foundry produce lighter castings on average?

A. yes

B. no

Correct Answer: A

QUESTION 3

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

QUESTION 4

Which of these graphical presentations displays the values of each individual reading?

A. Histogram

B. Box Plot

C. Stem and Leaf Plot

D. X-Y Diagram

Correct Answer: C

QUESTION 5

On a _____ one can see a pattern from the graphed points such that conclusions can be drawn about the largest family of Variation.

A. Multi-Vari Chart

B. Weighted Scale

C. X-Y Matrix

D. Poisson Chart

Correct Answer: A

QUESTION 6

A process shows the following number of defects. Each sample size for this process is

85. 3 8 2 7 7 6 8 8 9 5

What control chart should be used?

A. x-bar and R

B. median

C. individual and moving range

D. p

E. np

F. c

G. u

H. none of the above

Correct Answer: F

QUESTION 7

Dr. Joseph M. Juran: A. lectured in Japan after World War II

B. was an author of several books in the US

C. lectured widely in the US

D. is considered an expert is the quality field

E. all of the above

F. none of the above

Correct Answer: E

QUESTION 8

size			
.500	.625	.750	.875
Nut	146	300	74	41
Washer	280	276	29	32
Bolt	160	214	85	55

This table displays the inventory of fasteners in a storage cabinet. An item is selected at random from the fastener cabinet. Find the approximate probability it is a 1/2 inch bolt.

A. .65

B. .30

C. .09

D. .35

E. none of the above

Correct Answer: C

QUESTION 9

To be an effective Lean Six Sigma practitioner one must understand the difference between
_____.

A. ANOVA and the Analysis of Variance

B. Nonparametric tests and tests of Non-normal Data

C. F-test and test of variances of 2 samples

D. Practical and Statistical significance

Correct Answer: D

QUESTION 10

Nominal Group Technique is used to:

A. help a group reach consensus

B. generate a group on new ideas

C. provide a consistent stable group leadership

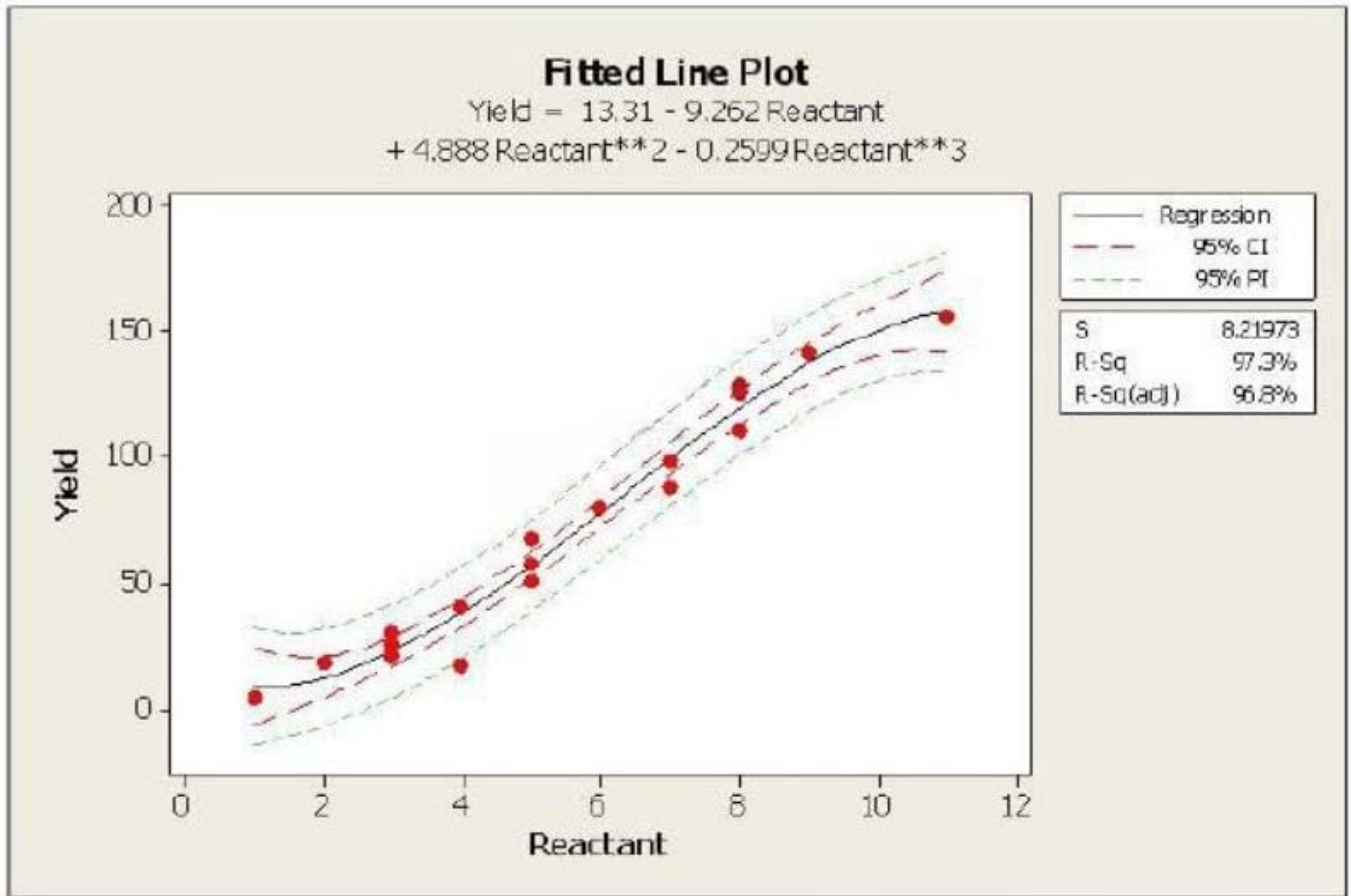D. provide a name for the group

Correct Answer: A

QUESTION 11

Each of the items listed would impact the Process Capability for a process with a continuous output except
_____.

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

B. Process Technology

C. Process Standard Deviation

D. Seasonal variation in process

Correct Answer: B

QUESTION 12

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

A. The independent variable is the reactant

B. If the reactant was 10 units, with 95% confidence we would expect a minimum yield of 148 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 6 and 8 units yields around 40 to 60

E. When the reactant increases, the expected yield would increase

Correct Answer: D

QUESTION 13

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?

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

Correct Answer: E

QUESTION 14

Measurement _____ is defined as the difference between the observed and the expected values for a given set of data.

A. Bias

B. Linearity

C. Range

D. Breadth

Correct Answer: A

QUESTION 15

An operator checks that all boxes being packed contain enough products to fill the box. However, each box getting filled has a different number of products in it. This is a Reproducibility problem, not a Repeatability problem.

A. True

B. False

Correct Answer: B

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