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**QUESTION 1**

The reported Cpk for a process with an average of 104 units, a spread of 18 units and upper and lower specification limits of 122 and 96 units would be?

- A. 0.5
- B. 0.89
- C. 1.00
- D. 2.00

Correct Answer: B

QUESTION 2

Based on the data given below, which of the following control charts would you like to use to devise a control mechanism?

Day	Number of reports to be delivered	Number of reports delivered on-time
1	500	495
2	550	543
3	625	618
4	700	692
5	550	544
6	450	446
7	525	520
8	620	614
9	475	471
10	575	570

- A. p
- B. np
- C. c
- D. u

Correct Answer: A

QUESTION 3



Use this data to calculate the Z Score. Average of: 92, Standard Deviation: 2, Upper Spec Limit: 101

- A. 0.75
- B. 1.5
- C. 2.25
- D. 4.50

Correct Answer: D

QUESTION 4

What is the Ppk of a process with a spread of 24 units, an average of 68, an upper limit of 82 and a lower limit of 54?

- A. 1.68
- B. 2.00
- C. 4.00
- D. 4.42

Correct Answer: C

QUESTION 5

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
- E. 2

Correct Answer: B

QUESTION 6



A _____ is used primarily to track the stability of the average value of a metric of interest.

- A. NP Chart
- B. Xbar-R Chart
- C. I-MR Chart
- D. C Chart

Correct Answer: B

QUESTION 7

Two samples are drawn from two normal types of population. Which of the following test statistics can be used to show that the two types of population have the same mean while both have the same variance?

- A. F test
- B. Two sample pooled t-test
- C. Two sample z-test
- D. Two proportion z-test

Correct Answer: A

QUESTION 8

Time is always the metric on the horizontal scale of a(n) _____ Chart.

- A. Pareto
- B. Xbar
- C. Multi-Vari
- D. NP

Correct Answer: C

QUESTION 9

Why do we use averages and sigma chart for large samples instead of averages and ranges chart?

- A. For large samples, a single extreme observation will have a significantly large effect on range, while its effect on standard deviation will be comparatively much less.
- B. Range is a better measure of dispersion than standard deviation.
- C. For large samples, calculation of range is laborious in comparison to standard deviation.



D. None of the above.

Correct Answer: A

QUESTION 10

Using this partial Z Table, how many units from a month's production run are expected to not satisfy customer requirements for the following process? Upper specification limit: 7.2 Lower specification limit: 4.3 Mean of the process: 5.9 Standard Deviation:

0.65 Monthly production: 450 units

A. 3

B. 7

C. 10

D. 12

Correct Answer: C

QUESTION 11

Handling of warranty returns, process improvement team meetings and rework to meet customer expectations are all examples of business costs that are classified as _____ .

A. Nuisance

B. Non-value Add

C. Necessary

D. Unavoidable

Correct Answer: B

QUESTION 12

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 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 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?

- A. 1
- B. 29
- C. 30
- D. 31
- E. 2

Correct Answer: B

QUESTION 14

Time is always the metric on the horizontal scale of a(n) _____ Chart.

- A. Pareto
- B. Xbar
- C. Multi-Vari
- D. NP

Correct Answer: C

QUESTION 15

If an experiment has 5 factors and no replicates for a 2-level Experimental Design with 16 experimental runs which statement(s) are correct? (Note: There are 3 correct answers).

- 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

Correct Answer: BCD

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