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QUESTION 1

A set of data from a process has 8 readings per sample and 50 samples. The mean of the 50 sample means is 12.62. The mean of the 50 ranges is 0.18.Find control limits for the R chart.

A. 0.10 and 0.25

B. none and 0.33

C. 0.02 and 0.33

D. none of the above

Correct Answer: C

Explanation: The formula required to calculate control limits for the R chart are as follows:

$$UCL_{\overline{R}} = D_4 \overline{R}$$

= 1.864 x 0.18 = 0.33

$$LCL_{\overline{R}} = D_3 \overline{R}$$

= 0.1111 x 0.18 = 0.02

n	D_4	n	D_4	n	D_4
2	3.267	7	1.924	12	1.717
3	2.574	8	1.864	13	1.693
4	2.282	9	1.816	14	1.672
5	2.114	10	1.777	15	1.653
6	2.004	11	1.744		

QUESTION 2

The validity of the decision made with Hypothesis Testing is dependent upon all of the following except _____.

A. Beta risk

B. Range of data

C. Alpha risk

D. Sample size

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Correct Answer: B

QUESTION 3

When we compare short-term and long-term Capability which of these is true?

A. Cp is better for the short term

B. Both short-term and long-term performance are alike

C. Performance tends to improve over time

D. Cp is better for the long-term

Correct Answer: A

QUESTION 4

The two types of data that are to be used in Statistical Analysis are Attribute and Variance.

A. True

B. False

Correct Answer: B

QUESTION 5

A helpful time to use a Quality Function Deployment matrix is:

A. while planning for a new or redesigned process

B. while planning for new or redesigned parts

C. while planning for a new or redesigned product

D. all of the above E. none of the above

Correct Answer: D

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