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QUESTION 1

Find the upper control limit for a range chart if $n = 4$ and the average range is 2.282.

- A. 2.282
- B. 4.564
- C. 5.208
- D. 3.423

Correct Answer: C

Explanation: The following formula is for calculating upper control limit for a range chart $n = 4$

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

= $2.282 \times 2.282 = 5.208$ Use the following constants (D_4) in the computation

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

For her injection molding project a Belt needed to track the percentage of defectives of a particular sample set so she used a _____ to display the data?

- A. Individual Chart
- B. C Chart
- C. Xbar Chart
- D. P Chart

Correct Answer: D

QUESTION 3



Find the value of (1) in the ANOVA table. Assume:

$$\alpha = 0.10;$$

ANOVA Table

Source	SS	df	MS	F ratio	F crit	P-value
x	1.48	1	(1)	(2)	(3)	(4)
Y	18.6	1	(5)	(6)	(7)	(8)
xxY	12.2	1	(9)	(10)	(11)	(12)
Error	2.1	4	(13)			

- A. 16.4
- B. 3.2
- C. 18.6
- D. 23.2
- E. 4.54
- F. 12.2
- G. 0.525
- H. 2.82
- I. 1.48
- J. 35.4
- K. 0.10