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 the control limits for a median chart.

Options:

A- 12.52 and 12.72

B- 12.54 and 12.70

C- 0.02 and 0.33

D- none of the above

Answer:

A

Question 2

Question Type: MultipleChoice

A quality engineer employed by a hospital is asked to improve the process of medication storage in locked cabinets near patient doors. One defect that occurs rarely is that the medication caddy is left out when the cabinet is relocked. The engineer installs a gravity activated arm that will not permit the door to close when the caddy isn't inside. This improvement is best described by which approach to problem solving?

Options:

A- 5S

B- Poka yoke

C- Kaizen

D- PDCA

E- Re-engineering

Answer:

B

Question 3

Question Type: **MultipleChoice**

Calculate the main effect of factor A:

	A	B	Res.
1	−	−	20
2	−	+	30
3	+	−	40
4	+	+	50

C- 30

D- 40

E- none of the above

Answer:

A

Question 4

Question Type: **MultipleChoice**

Find the value of b or b0:

Options:

A- 3.33

B- --3.33

C- 4.08

D- --4.08

E- 1.24

F- --1.24

Answer:

B

Question 5

Question Type: **MultipleChoice**

Find the value of m or b1:

Options:

A- 0.25

B- 0.63

C- 0.75

D- 1.22

Question 6

Question Type: **MultipleChoice**

What percent of population falls below the lower specification limits?

Options:

A- 9.18%

B- 22.66%

C- 6.68 %

D- 1.83%

Answer:

A

Question 7

An full factorial experiment has three factors. Each factor has three levels. The number of test combinations or runs is:

Options:

A- 9

B- 6

C- 27

D- 36

E- 33

Answer:

C

Question 8

An experiment is conducted by checking the effect that three different pressures have on the surface appearance of a product. Ten items are produced at each of the three pressures. The number of replications, factors and levels are:

Options:

A- 10, 3, 2

B- 10, 2, 3

C- 2, 3, 3

D- 10, 1, 3

E- 10, 3, 1

Answer:

D

Question 9

Question Type: **MultipleChoice**

An x-bar and R chart is used to monitor a process. One week ago a new type of raw material was introduced and since that time 60 points have been plotted on the xbar chart and all are in the middle third of the chart. The corresponding 60 points on the R chart are all below the average range. This indicates that:

Options:

A- the operator has been plotting the points incorrectly

B- it is time to recalibrate the gage used

C- it is time to recalculate the control limits

D- the material manager should be asked to go back to the previous raw material so the charts will more accurately reflect the process

Answer:

C

Question 10

Question Type: MultipleChoice

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 the control limits for a median chart.

Options:

A- 12.52 and 12.72

B- 12.54 and 12.70

C- 0.02 and 0.33

D- none of the above

Answer:

A

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