

STATISTICAL QUALITY CONTROL

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STATISTICAL QUALITY CONTROL

General

Final S2021- 50% Quality Control I

Time left 0:11:00

Thirty samples were collected; with variable sample sizes. A control chart for the fraction nonconforming is to be established. The sum of nonconforming was 90 and the sum of the sample sizes = 180. Using the average sample size, the 2-sigma UCL is -----.

- ☐ 1.1123
- ☐ 0.9082
- ☐ 6
- ☐ 0.6476
- ☐ None

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Time left 0:

A control chart is constructed to monitor total number of nonconformities in a fixed sample size inspection unit of two units. The CL of the control chart was 4. Suppose that this chart will be used to monitor total number of nonconformities when four units are collected in each sample. Then, the UCL of the modified control chart ----

- ☐ 17
- ☐ 7
- ☐ 10
- ☐ None
- ☐ 13

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Time left 0:07:38

The \bar{x} -bar and R chart was used to monitor process. Twenty samples were collected each of sample size = 9. The estimated process mean and standard deviation are 112 and 2, respectively. Specification on the critical characteristic is $USL = 119$, $target = 111$, $LSL = 106$. Then, the appropriate capability index will be -----,

- ☐ $C_{pk} = 0.894427$
- ☐ $C_{pm} = 0.894427$
- ☐ $C_p = 1$
- ☐ $C_{pk} = 1$
- ☐ $C_{pm} = 0.745356$

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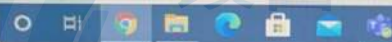
Time left 0:20:27

Twenty samples were selected randomly, each sample consists of four items. The sum of total nonconformities = 80. Suppose that the inspection unit was defined as four items. The UCL for appropriate 4-sigma control chart for monitoring this inspection unit is -----

- ☐ 16
- ☐ 10
- ☐ None
- ☐ 12
- ☐ 8

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Time

Consider the following information:

Individual chart: Center line = 600

MR-chart: Center line = 4

The UCL of Individual control chart will be -----

- ☐ 14.744
- ☐ 589.36
- ☐ 610.64
- ☐ 13.068
- ☐ None

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Time left 1:01:04

A manufacturing process was controlled with a fraction nonconforming control chart; $CL = 0.1$. The procedure called for taking daily samples of 100 items. Then, the 4-sigma UCL of the corresponding and equivalent control chart for monitoring the number nonconforming is ----

- ☐ 0.22
- ☐ 0.1
- ☐ None
- ☐ 22
- ☐ 10

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Time left 1:02:20

The \bar{x} -bar and R charts are used to monitor weight (Specifications 102 ± 9). Twenty samples were collected ($n=4$). Given (standard values are unknown):

\bar{x} -bar: CL = 100

R chart: CL = 8

Assume $d_2=2$, The probability of detecting the shift by the first sample when process mean shifts to 102 and the standard deviation becomes 8 is -----

- ☐ 0.02275
- ☐ 0.81859
- ☐ 0.18141
- ☐ 0.88887
- ☐ None

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Time left 1:08:00

Question 1
Not yet answered
Marked out of 1.00
Flag question

The \bar{x} -bar and S charts (standard values are known) are used to monitor weight (Specifications 100 ± 9). Twenty samples were collected ($n = 4$). Given:

\bar{x} -bar: CL = 101

s chart: CL = 9

The values of process standard deviation and mean are -----

- ☐ mean = 100, standard deviation = 9.788
- ☐ mean = 100, standard deviation = 9
- ☐ None
- ☐ mean = 101, standard deviation = 9.788
- ☐ mean = 101, standard deviation = 8.2917

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Time left 1:04:07

Quiz

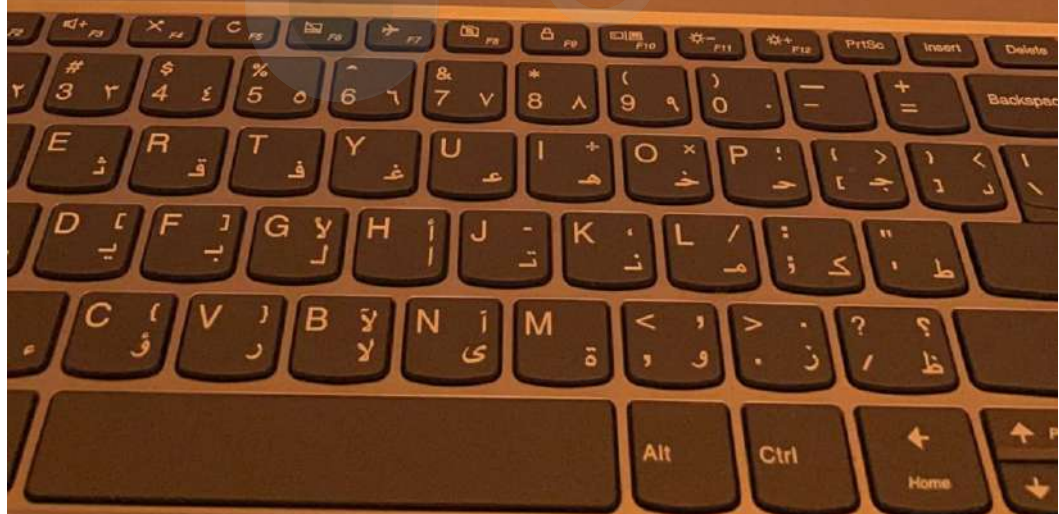
The x-bar and s chart was used to monitor a new critical process. The standard values of the mean and standard deviation are 100 and 2, respectively. Specification on the critical characteristic is at most 118. Then, the minimal recommended value of process capability index is -----

- ☐ 1.6
- ☐ 1.67
- ☐ 2
- ☐ 1.45
- ☐ None

Finish attempt

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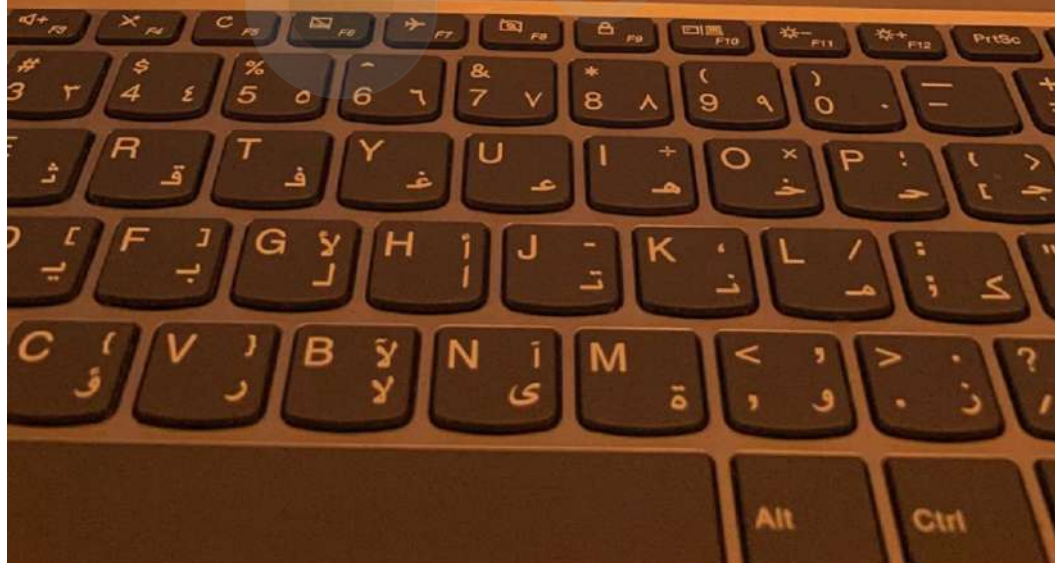
Time left 0:06:43

A control chart is to be established to monitor average nonconformities **per unit**. Twenty samples are collected each of nine units. The total of the number of nonconformities is 180. Calculate the UCL of this control chart.

- ☐ c chart, UCL = 30.73
- ☐ None
- ☐ U chart, UCL = 2
- ☐ c chart, UCL = 2
- ☐ c chart, UCL = 31

Finish attempt ...

rch



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Time left 0:46:59

A control chart for the fraction nonconforming is to be established using a center line of 0.10 and 2-sigma control limits. What sample size is required if we wish to detect a shift in the process fraction nonconforming to 0.30 with probability 0.50?

- ☐ 25
- ☐ 36
- ☐ 9
- ☐ 100
- ☐ None

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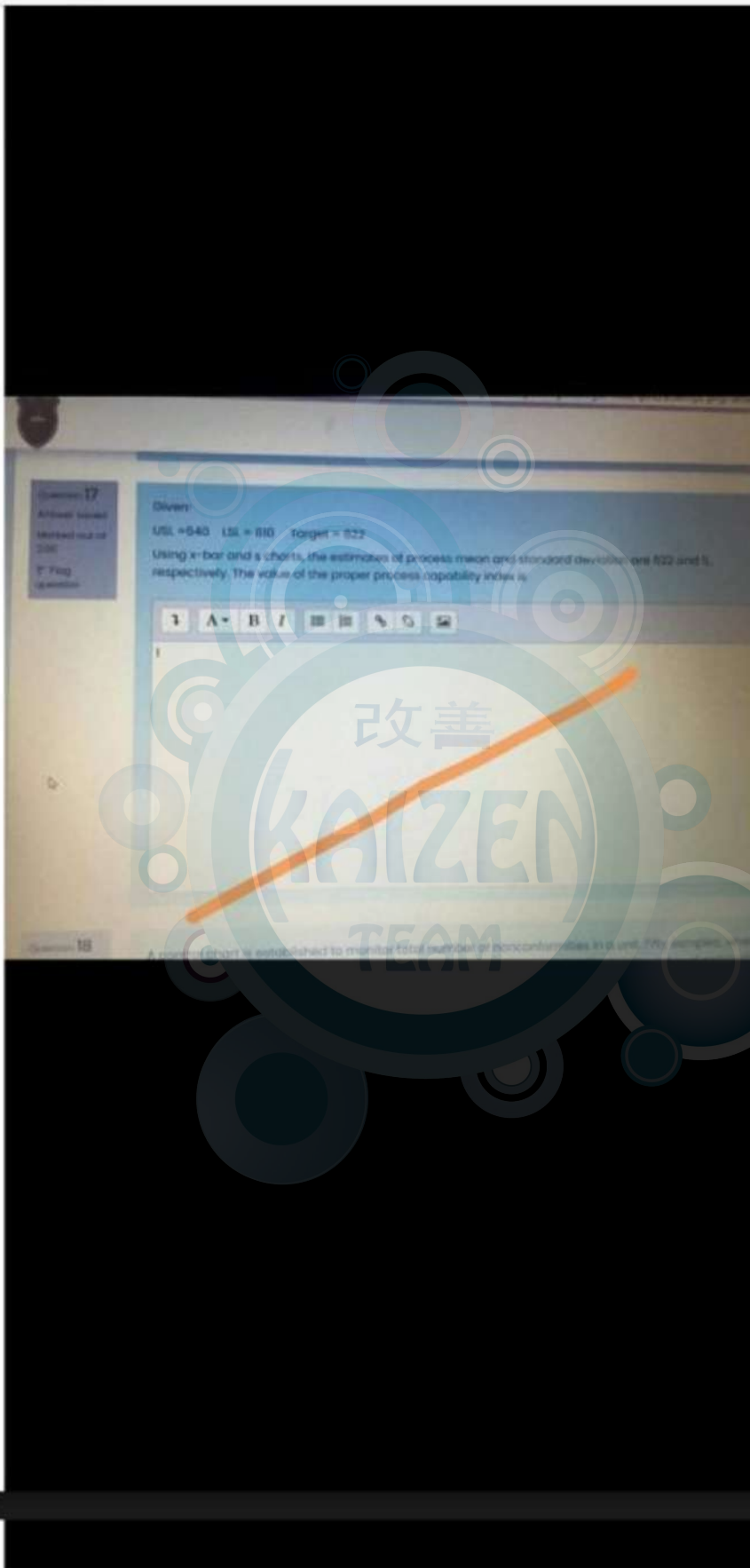
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A control chart is developed to monitor the number of nonconforming units. Twenty samples were collected, each of sample size of 50 units. The sum of nonconforming units is 100. The UCL of the proper 2-sigma control chart will be -----

A B I

1





Twenty samples are collected; each sample of size of 5 bottles. Given:
average of sample averages = 625
Average of sample ranges = 9
The UCL of the 4-sigma x-bar chart will be -----

1 A B I

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Twenty samples are collected; each sample of size of 6 bottles. Given:
average of sample averages = 620
Average of sample standard deviations = 9

The UCL of the 2-sigma s chart will be -----

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3:42



AA

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nonconformity Time left 0:59:32
established in conjunction
with final inspection of a
device. The inspection unit is
to be a group of 18 devices.
The average number of
nonconformities per radio
has, in the past, been 0.5. The
two-sigma of the
appropriate control chart for
this size inspection unit is ---

☐ 18☐ 9☐ 1.21☒ 15☐ None

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The \bar{x} -bar and used to monitor process.

Time left 1:01:22

The following are calculated:

\bar{x} -bar chart: $CL = 90$ $UCL = 102$ ($n=4$)

Specifications are 89 ± 15

The value of the potential process capability index is --

- ☐ a. 0.667
- ☐ b. None
- ☒ c. 0.625
- ☐ d. 0.583
- ☐ e. 0.625

[Clear my choice](#)

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Time left 0:43:42

The fraction nonconforming control chart was constructed ($n=100$). The UCL and CL are calculated as 0.19 and 0.1, respectively. Then, the LCL is -----

- ☐ 0.01
- ☐ -0.01
- ☐ 0.09
- ☐ 0.07

☒ None

Clear my choice

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