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---------- is a graphical method for determining whether sample data conform to a hypothesized distribution based on a subjective visual examination of the data.

- a. Probability plots
- b. Normal distribution
- c. Probability distribution
- d. Control charts

Clear my choice

⚑ Flag question

Suppose the probability of finding a nonconforming component is 0.1. An engineer selected a sample of 5 units. Calculate the probability that he/she will find at most one nonconforming unit.

.91854

⚐ Flag question

------------ are incurred when products, components, materials, and services fail to meet quality requirements, and this failure is discovered prior to delivery of the product to the customer.

- ⊙ a. Inspection

- ⦿ b. Internal failure costs

- ○ c. Production costs

- ○ d. Defective products

Clear my choice

An electronic product is composed of three identical and independent components. The component's time-to-failure is modeled satisfactorily by Exponential distribution with mean of 100 hours. Suppose that the components are arranged in a standby redundant configuration, calculate the probability that the system will survive 100 hours.

Mark 1.00 out of 1.00

⚑ Flag question

Sometimes a point will plot outside the control limits on both the I-MR charts. It is most likely an indication --------------- that the mean is out of control and not an indication that both the mean

○ a. that the variance is out of control and not an indication that both the mean variance of the process are out of control

◉ b. that the mean is out of control and not an indication that both the mean variance of the process are out of control ✔

○ c. process is incontrol

○ d. that both the mean and the variance of the process are out of control

Question **4**

Incorrect

Mark 0.00 out of 1.00

A mechanical product is composed of three identical and independent components. The component's time-to-failure is modeled satisfactorily by Weibull distribution with shape and scale of 0.5 and 100 hours. Suppose that the product requires all components to be operating in order to operate, calculate the probability that the system will fail 64 hours.

.016698

A process that is operating in the presence of ------- is said to be an out-of-control process

○ a. a run of less than 8 points

○ b. chance causes

○ c. random pattern

● d. assignable causes

Clear my choice

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A lot consists of 15 units and is subjected to acceptance testing. The lot contains 4 nonconforming units. The lot is accepted if at most one unit is found nonconforming in the sample. The engineer collects a random sample of 5 units; calculate the probability that the lot will be accepted.

.05933

Marked out of 2.00

P Flag question

Suppose that a component has a time-to-failure modeled by Weibull distribution with mean time to failure of 2400 hrs and scale parameter of 100 hrs. Calculate the probability that a component survives 80 hrs.

Answer saved

Marked out of 2.00

⚑ Flag question

The number of nonconformities on a unit is modeled by Poisson distribution with mean rate of 0.1 defect per unit. Calculate the probability that a randomly selected unit will contain at most one defect.
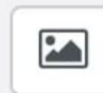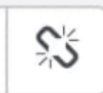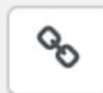
.9953

An engineer has decided to continue inspection till finding two nonconforming units. Suppose the mean of the number of units till finding two nonconforming units is 20. Calculate the probability that he/she will inspect exactly 20 units.

| ⤓ | A ▾ | **B** | *I* |

| ☰ | ☷ | 🔗 | 🔗 | 🖼 |

.02851

⚑ Flag question

The smallest allowable value for a quality characteristic is called the ---------------.

- ⦿ a. lower specification limit
- ○ b. lower control limit
- ○ c. rework or scrap
- ○ d. target

Clear my choice

Previous page

Marked out of 1.00

🏳 Flag question

------------- are often evaluated relative to specifications.

○ a. Process

○ b. Quality control

○ c. Nonconforming products

◉ d. Quality characteristics

Clear my choice

Question **9**

Not yet answered

🏴 Flag question

Customers obviously want products that perform satisfactorily over a long period of time. This is related to ------------- quality dimension.

- ○ a. performance
- ⦿ b. durability
- ○ c. reliability
- ○ d. features

Clear my choice

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☰   🌐   👤   ▼

All costs of investigation and adjustment of justified complaints attributable to the nonconforming product are considered -------------

○ a. warranty costs

○ b. liability costs

◉ c. external failure costs

○ d. internal failure costs

Clear my choice

Question 5

Suppose the probability of finding a nonconforming component is 0.05. An engineer has completed the inspection of 20 units. If another 5 units will be inspected, calculate the probability that component number 25 will be the first nonconforming unit.

↧   A ▾   B   I

.04072

-------------- involve the set of activities used to ensure that the products and services meet requirements and are improved on a continuous basis.

○ a. Quality assurance and improvement

○ b. Conforming products

○ c. Quality planning

⦿ d. Quality control and improvement

Clear my choice

☰   🌐   👤 ▼

Suppose the probability of finding a nonconforming component is 0.05. An engineer has decided to continue inspection till finding two nonconforming units. Calculate the probability that he/she will inspect exactly 20 units.

⬇   A ▾   **B**   *I*

☰   ☰   🔗   ✂🔗   🖼

.01886

A ------------- has one or more defects, which are nonconformities that are serious enough to significantly affect the safe or effective use of the product.

- a. acceptable product
- b. nonconforming product
- c. Upper specification limit
- ⦿ d. defective product

Clear my choice