Assignment-00

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-01-27, 23:59 IST.

1) The thickness of the blade of a fan is specified to lie between 4 cm and 6 cm. The length of the blades must lie between 10 cm and 20 cm. A fan blade randomly selected from a sample of 100 blades has a thickness of 5 mm and a length of 21 cm. The number of defect(s) the blade has is _______________.

- One
- Two
- Three

No, the answer is incorrect.
Score: 0

Accepted Answers:
One

2) A pair of dice is rolled until a sum of 7 or an even number appears. Find the probability that a 7 appears first.

- \(\frac{1}{6}\)
- \(\frac{1}{2}\)
- \(\frac{1}{4}\)
- \(\frac{1}{3}\)

No, the answer is incorrect.
None of These

No, the answer is incorrect.
Score: 0
Accepted Answers:
None of These

The sample mean is an estimate of the population mean.

No, the answer is incorrect.
Score: 0
Accepted Answers:
The sample mean is an estimate of the population mean.

The distance between the upper acceptable limit and the lower acceptable limit is 6 times the standard deviation of the process.

No, the answer is incorrect.
Score: 0
Accepted Answers:
The distance between the upper acceptable limit and the lower acceptable limit is 6 times the standard deviation of the process.

0.9973
0.9192
0.9500
0.9371

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.9192

The data mentioned in question # 06, suppose that we can reenter the manufacturing

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.9192
process, perhaps by adjusting the machine, so that the process mean is exactly equal to the nominal value of 0.2500, then what fraction of the shafts produced conform to the specifications?

- 0.9973
- 0.9192
- 0.9500
- 0.9371

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.9973

8) Which of the following statements is/are TRUE?

I. Probability distribution functions are only for continuous events.
II. For the discrete case, the probability distribution is termed as Probability Mass Function (PMF).
III. For the continuous case, the probability distribution is termed as Probability Density Function (PDF).

- Only II
- Only III
- Both II and III
- All statements are True

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both II and III

9) Which Statistical Process Control tool provides an accurate representation of the distribution of a continuous variable?

- Cause and Effect Diagram
- Check List
- Histogram
- Pareto Chart

No, the answer is incorrect.
Score: 0
Accepted Answers:
Histogram

10) In quality control, it often represents the most common sources of defects, the highest occurring type of defect, or the most frequent reasons for customer complaints, and so on. The purpose of the ____________________________ is to highlight the most important among a (typically large) set of factors.

- Cause and Effect Diagram
- Check List
- Histogram
- Pareto Chart

No, the answer is incorrect.
Score: 0
Accepted Answers:
Pareto Chart