Quiz-3

Ans. 10 Q. 10. 1

Given, the most confidence level is 95%.

, a= 0.05.

We know, confidence interval = point estimate + margin

From the lets -
$$\frac{1}{36}$$

From the data,
$$\bar{\chi} = \frac{\frac{36}{5}\pi_1}{\frac{5}{7}} = \frac{\frac{36}{5}\pi_1}{\frac{5}{30}}$$

and,
$$S_{x} = 8.98$$
 $\left[S_{x} = \frac{\sum_{i=1}^{35} (\bar{x} - x_{i})^{2}}{30 - 1}\right]^{\frac{35}{25}}$

: Confidence interval =
$$\frac{1}{2} \pm \frac{1}{29,1-4/2} \times \sqrt{\frac{3.98^2}{2900}}$$

Ans: 10.0807, 13.0527

This is the confidence interval for mean of items sold.

Ans. to Quo. 2 (a)

In military mean cost, we true inventory system, we have to measure the mean cost.

Since, the dunation is assumed to be long, we take this event as non-terminating simulation.

The parameter need to be steady state parameters.

Ansito Quo. 2(b)

Here, the system fallows a cycle and we estimate the throughput over a cycle.

So, the parameter is steady state cycle parameters and the event is non-terminating:

Ansto Q.no. 2(0)

As, the estimation is done over 120 months, the event is a terminating event.

The terminating event E, is that the ordening event is cancelled and the inventory evaluation is cancelled.