



SNS COLLEGE OF ENGINEERING

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AN AUTONOMOUS INSTITUTION



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Topic: 1.4- Tutorial 1

1. A sample of 900 members has a mean 3.4 cm and standard deviation 2.61 cm. Is the sample from a large population of mean 3.25 cm and standard deviation of 2.61 cm?
2. The mean life time of a sample of 100 light tubes produced by a company is found to be 1580 hours with standard deviation of 90 hours. Examine the hypothesis that the mean life time of the tubes produced by the company is 1600 hours.
3. Two horses were tested according to the time (in seconds) to run a particular race with the following results. Test whether horse A is running faster than horse B at 5% level.

Horse A	28	30	32	33	33	29	34
Horse B	29	30	30	24	27	29	

4. A random sample of 10 boys had the following I.Q's:70, 120, 110, 101, 88, 83, 95, 98, 107, 100. Test whether the population mean I.Q may be 100.