(3.) A sample of 100 students is taken from a large population. The mean height of the students in this sample is 160 cm. Com it be reasonably sugarded that, in the population, the mean height is 165 cm and the SD is 10 cm?

O.2 The mean breaking strength of the cables (5) Supplied by a manufacturer is 1800 with SD of 100. By a new technique in the manufacturing process, it is daimed that the breaking strength of the cable has increased. To test this claim, a sample of 50 cables is tested and it is found that the mean breaking strength is 1850. Can we support the claim at 1% Los?

Q.3 A random sample of 50 cleans gives the mean 6.2 and SD 10.24. Can it be regarded as drawn brom a normal population with near 5.4 at 5%. LOS!

Q.4 The mean height of a scandom sample of 1000 individuals from a population is 160. The SD of the sample is 10. Would it be heasonable to suppose that the mean height of the population is 165?

The mean value of a handom sample of 60 iten was found to be 145, with a standard deviation of 40. Find the 95% confidence limits for the population mean, what size of the sample is required to estimate the population mean within 5 of its actual value with 95% or more

Considense, using the sample mean?

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