

How to know if σ known or unknown :

σ known

- The population variance(σ^2)
- The population standard deviation..... (σ)
- It is normal distribution with variance(σ^2)
- It is normal distribution with standard deviation(σ)

σ unknown: (Use S instead)

- Sample variance..... (S^2)
- Sample standard deviation (S)
- If we have a sample of size ..(n),has mean (\bar{X}) with variance ...(S^2)
- If we have a sample of size ..(n),has mean (\bar{X}) with standard deviation ...(S)
