**How to know if σ known or unknown :**

**σ known**

* The population variance ………(σ2)
* The population standard deviation…….. (σ)
* It is normal distribution with variance …..(σ2)
* It is normal distribution with standard deviation …..(σ)

**σ unknown: (Use S instead )**

* Sample variance….. (S2)
* Sample standard deviation ….. (S)
* If we have a sample of size ..(n),has mean ( ) with variance …(S2)
* If we have a sample of size ..(n),has mean ( ) with standard deviation …(S)