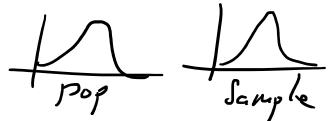
-> Central Limit Themen: Assignation



-> Degree of Freedom: (D-0-K)

D-0-F = N. of independent obs - No of parameters

Sal Age ~ N-1

-> Bhi-Sque Dist (X)2

Lo 24, 22, .... In from N(U, T)

$$\sum_{i=1}^{n} \left(\frac{\lambda_{i} - \mu}{\sigma}\right)^{2}$$

For N-1 D-0-F

$$\sum_{i=1}^{n} \left( \frac{\lambda_{i} - \lambda_{i}}{\sigma} \right)^{2} = \frac{n s}{\sigma^{2}}$$

-> Estimating Population Daniance ( -2)

Ls  $s^2 = \frac{1}{n} \sum_{i=1}^{n} (x_i - \overline{x})^2$  Eyel in large samples

$$s_{1}^{2} = \frac{1}{n-1} \sum_{i=1}^{n} (2i - 3i)^{2} \quad \text{large samples}$$

$$-5 (ase I: Small Cample (n < 10))$$
Dist Stat:  $\frac{(n-1)s_{1}^{2}}{\sigma^{2}}$  with  $3-0-7(n-1)$ 

$$\left(\frac{(n-1)s_{1}^{2}}{\chi_{\alpha/2}^{2}}, \frac{(n-1)s_{1}^{2}}{\chi_{1-\alpha/2}^{2}}\right) \quad \text{Introd}$$

$$\int_{-\alpha}^{2} = 0.35$$

$$\int_{-\alpha/2}^{2} = 27.587 \quad \int_{-\alpha/2}^{2} \int_{1-\alpha/2}^{2} = 0.672$$

$$\left(\frac{(n-1)s_{1}^{2}}{\chi_{\alpha/2}^{2}}, \frac{(n-1)s_{1}^{2}}{\chi_{1-\alpha/2}^{2}}\right)$$

$$= \frac{17 \times 1.62 \times 1.62}{27.577}, \frac{17 \times 1.62 \times 1.62}{8.672}$$

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$$=$$

-> Proportion: 
$$\frac{1}{n} = \pi$$

Sérror for pupation =  $\sqrt{\pi (1-\pi)/n}$ 

Sampling Reporting  $P = \frac{h}{n}$ 
 $Z = \frac{1L - n\pi}{2\pi (1-\pi)} = \frac{p - \pi}{\sqrt{\pi (1-\pi)/n}}$ 

When n = 30 or nT = 5 as well as n (1-T) = 5