$$P(\hat{\Theta} = \Theta) = 0 \qquad \hat{\Theta} = T(X_{1...} X_{n})$$

$$\lambda = 0.05$$

$$1 - \lambda = P(L < \Theta < U)$$

Confidence interval for the population mean - Known

2)
$$\chi_{1}$$
, χ_{36} (3.5, 3.7)
$$\overline{\chi} = 3.6$$

$$\int_{-0.72}^{3.7} = \overline{\chi} - Z_{oly2} \cdot \overline{m}, \quad Z_{oly2} = 0.1 \cdot 6$$

$$\int_{-0.72}^{20/2} = \overline{\chi} - Z_{oly2} \cdot \overline{m}, \quad Z_{oly2} = 0.797$$
(1-2) 100%

$$= 594\%$$

31. X; ~ M (M, (0.43)) $M \in (X - Z_{2} = X + - 1)$ 95% $M \in (2.9 - 1.96.\frac{0.95}{5}; 2.9 + -1/-)$ $\chi = 0.05$

3.2).2. $M = X + Z_{2} = \sqrt{m}$ (2. 81; 2. 99) 2.99 2.9 (1-d).100% = 68%

 $P(-\infty < 2 < 1) = 0.841$ 2 = 1 - 0.841 = 0.159 $2 \approx 0.32$

Confidence Interval for population proportion

95% C.T $P \in (\hat{p} - Z_{M_2}, \sqrt{\hat{p}, \hat{q}}, \hat{p} + - //-)$ 1963 0.025 PE(0.8-1.90/200) 0.8+-11-) PE(0.35-1961 200 ; 0.35+-11)

 $\sigma \tau^{0}$ (Version from the class in another group)

$$\frac{1363}{160} = P$$

$$2 = 0.05 \qquad (1 - 0.05).100\% = 95\%$$

$$P \in \left(\hat{p} - Z_{12} \cdot \sqrt{\hat{p} \cdot \hat{q}} \cdot \hat{p} + Z_{12} \cdot \sqrt{\hat{p} \cdot \hat{q}} \right)$$

$$P(0.35-1.96\sqrt{\frac{200}{255.065}},0.35+-11)$$

 $V_3 = V_m \sim \mathcal{F}(\mathcal{M}_2, \mathcal{G}_2^2)$ VN (M, 62) X-KN (M,-M2 6, 4 63)

$$\frac{9-4}{\sqrt{5}-0}$$

$$\frac{\sqrt{5}-0}{\sqrt{5}+m}$$

$$\frac{\sqrt{5}+m}{\sqrt{5}+m}$$

$$\frac{\sqrt{5}+m}{\sqrt{5}+m}$$

$$\frac{\sqrt{5}+m}{\sqrt{5}+m}$$

$$\frac{\sqrt{5}+m}{\sqrt{5}+m}$$

The popular proportions

$$\lambda_{1} = \lambda_{1}$$
 $\lambda_{1} = \lambda_{1}$
 $\lambda_{2} = \lambda_{1}$
 $\lambda_{3} = \lambda_{4}$
 $\lambda_{4} = \lambda_{1}$
 $\lambda_{5} = \lambda_{1}$
 $\lambda_{6} = \lambda_{1}$
 $\lambda_{7} = \lambda_{1}$
 λ_{7