$$E(x) = N \cdot p \text{ (teoretic)} = \frac{x_{1} + \dots \times x_{m}}{m}$$

$$\int \hat{P}(x_1,...,x_m) = \frac{x_1 + ... + x_m}{N \cdot m} \rightarrow val. aproximata$$

Prox p

METODA VEROSIMILITATII MAXIME

$$P(X=x) = C_{N}^{x} p^{x}(1-p)^{N-x}, x \in \{0,1,\dots,N\} \rightarrow prob. intr-un panet$$

$$L(X_{1}-X_{m};P) = \prod_{i=1}^{m} P(X=X_{i}) = \prod_{i=1}^{m} C_{N}^{x_{i}} p^{x_{i}}(1-p)^{N-x_{i}} = \left(\prod_{i=1}^{m} C_{N}^{x_{i}}\right) p^{\sum x_{i}} \cdot (1-p)^{\sum N-x_{i}} = \left(\prod_{i=1}^{m} C_{N}^{x_{i}}\right) p^{\sum N-x_{i}} \cdot (1-p)^{\sum N-x_{i}} = \left(\prod_{i=1}^{m} C_{N}^{x_{i}}\right) p^$$

$$\frac{\partial enL}{\partial p} = \frac{1}{p} \sum_{i} x_{i} - \frac{m \cdot N - \sum_{i} x_{i}}{1 - p}$$
 apoi il occare pe p

FUN INONIA

3 71,68, xx, 69,65 N/(M, 62) 95% interval de încredire

> a) meda multe formule transfet

(5) mo 35 om (2350 de e2) pt 80 km/h (provider)

X100 = 49 m

€ T = 1 m -> pt. exantion

(-0, xm - 6 - 2 x) = (-0, 49 + 10 · 2,36) = (-0; 49,236)

> mu e mai performant ca mo & (00,49,236) am respins postesar Ho in fautle b) 6 = 2 mm -> a tuturor (radio)

$$\frac{2}{4} = 0.06 + 9 = 90$$

$$\frac{2}{49 - 50} = \frac{1}{100} = \frac{2}{10}$$

$$\frac{2}{5} = \frac{2}{10}$$

20.06 = -1,55

conclusia e ca 2 × 2 « respinge Ho in Javoarcea lui H,

$$\frac{\overline{X_{100} - 000}}{\frac{6}{5m}} \leqslant -1,55 \iff \overline{X_{100}} \leqslant \frac{49,69}{100}$$
 $\Rightarrow \text{ max medic} = 49,69$