

$$S_{24} = X_1 + X_2$$

$$E(S_{24}) = 84 \quad Var(S_{24}) = 70$$

$$S_{24} \approx W(84, 70) \quad W \approx W(84, 70) \quad W \approx W(84, 70)$$

$$E(S_{24}) = 84 \approx P(W \in [75, 75])$$

rmam

dram

pmam

P(S247,84)= 1- pmnm(84,...)

P(N < 85)-P(N < 84)

prom (85) - prom (84)

$$Y = \begin{cases} 1ni & S_{24} = 84 \text{ (areeparlow p)} \\ 0 \text{ simm} \end{cases} = \begin{cases} 1-p \\ 0 \text{ simm} \end{cases} = P - p^{2} \\ = p(1-p) \end{cases}$$

$$S_{N}^{r} \sim \mathcal{N} \left(P, \frac{p(n-p)}{N} \right) \notin \left(S_{N}^{r} \right) = p \quad \text{Var} \left(S_{N}^{r} \right) = \frac{N(p(n-p))}{N^{2}}$$

$$S_{N}^{r} = \frac{y_{n} + \dots + y_{N}}{N}$$

$$\left(S_{N}^{r} \right) \in \left[P - \frac{1}{2} \frac{p(n-p)}{N}, P + 2 \frac{p(n-p)}{N} \right] = 0.5$$

N=10°
$$S_{N}^{*} \sim \mathcal{N} \left(\beta, \frac{p(n-p)}{N} \right) \notin \left(S_{N}^{*} \right) = p \quad \forall \text{av} \left(S_{N}^{*} \right) = \frac{p(n-p)}{N}$$

$$S_{N}^{*} = \frac{y_{n} + \dots + y_{N}}{N}$$

$$\left[\left(S_{N}^{*} \right) \in \left[p - \frac{2 \left[p(n-p) \right]}{N} \right] + 2 \left[\frac{p(n-p)}{N} \right] \right] = 0.55$$

S, P[SN ∈ [p-1, p+1])-1-1 P(n-r)

 $\mathbb{P}\left[p\in\left(S_{N}^{*}-1,S_{N}^{*}+1\right)\right]$

$$\times v = \frac{(b-a)^2}{12} + 176$$

$$\pm (x) = 1776$$

$$Var(x) = \frac{(b-a)^2}{12} = \frac{4}{3}$$

$$5_{18} = \frac{x_0 + \dots + x_{18}}{18}$$

$$\pm (S_{18}) = 1776$$

$$Var(S_{18}) = \frac{Var(x)}{18} = 0.074$$

$$7_{318} = \frac{x_0 + \dots + x_{18}}{18} = 0.074$$

