FORMULA SHEET FOR EXAM 4

•	if	χν	N(4,¢)	, Then	Xn	NN	Cu,	Ox Jn)
	V							•	

· y X v bin (n,p), then E(x) = np V(x) = np(1-p) Ox = Jnp(1-p) and if a large, X can be approximated by N(4, Inp(1-p))

· X r bin (n, p) then for large n & (sample proportion)
has the probability distribution:

pNN(p, (P(1-P))

C.I. for $u: \overline{\chi_n + Z_{\underline{a}}}(\overline{\overline{m}})$ C can use S_x for $\overline{U_x}$ $y_{n \ge 30}$

·(1-2)% (.I. for p: \$= \frac{1}{p} + \frac{7}{2} \langle \frac{p(1-p)}{n}

· choosing sample size:

- when estimating $u: E = maximum to levable error = Z_{1/2} \frac{U_X}{V_N}$ - when estimating $p: E = "" = Z_{1/2} \left(\sqrt{\frac{P(1-p)}{N}} \right)$

· small sample estimation for u: Trutty (5x)

TO ESTIMATE CTEST) POPULATION MEAN:

NOT NORMAL US & NON-PARAMETRIC TESTS