Assume X1, X2 are independent=> p(x1, x2) = p(x1)p(x2)

	Covadance is 0 when independent
	COV [XI, Xa] = E[XIXa] - MINA = MINA = MINA = 0
	=> Var (X1+X2)= 512 + 52 26 X1X2 independent
	IF X Xn independent
	Var (X, + X, J = = Var (Xi) = no2
1	Var [XN] = Var [+Tn] = ha Var [Tn] = na Svar [xi] na no = no o
	E[Xn]=E[th]=the[Th]=thnun =>SE(Xn)=
	X~ Bin (n,p) X = X,++ Yn where
	E[X] = np E[X] = \(\Sigma\) \(\Sigma\)
	Var[X] = E[(X-W)] = \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} \) \(\frac{1}{x} \) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} \)) \(\frac{1}{x} \) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} \)) \(\frac{1}{x} \) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} \)) \(\frac{1}{x} \) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} \)) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - \text{np} \)) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - \text{np} \)) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - \text{np} \)) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - \text{np} \)) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - \text{np} \)) \(\frac{1}{x} - \text{np} \)^2 (\(\frac{1}{x} - np
	Vor[X] = ZVar[Xi] = no2 = np(1-p) = SE[X] = [Inp(1-p)]
	$X \sim Geom(P) = (I-P)^{X-1}P$
	ECXJ====
1	Var[X]=E[X2]-u2
1	= E(X2) - 12
1	ECX2 = 2 x2 (1-p)x-1p
1	nove to stort at 1, need togeta success, if you do 0 trooks want be able
1	to mue and successful trials

let d = x-1 => x = d+1 E[x2]= 2x2(1-p) = 2(a+1)2(1-p)p=2d2(1-p)p+2Za((1-P) \(\frac{2}{2} d^2 (1-P)^{d-1} \)
\[d=1 \]
\[\frac{1}{2} d^2 (1-P)^{d-1} \]
\[\frac{1}{2} d^2 (1-P) >[X2] E[X2] = (1-p) E(X2] + 2(1-p) + 1-p E[X2] - (1-P) E[X2] = 2(1-P)+P $E[X_5]b = \frac{3(1-b)+b}{b}$ $E[X^{2}] = 2(1-p)+p = 2-2p+p = 2-p$ Var[X] = E[X2] - pa $= \frac{2-P}{p^2} - \frac{1}{p^2} = \frac{1-P}{p^2}$ Xn Hyper (n, K, N) Nor [X] = Z (X-VX) (x) (x) (V-x) Wightmare... not in this class



