* Charkshoet 9 : * pablem 1 = Pr (red) = 0.9 = P X=X10 + Xx , Xi= (P=0.9 = M=np= 900x0.9=810 == np(1-p)= 900x0.9x0.1=81 => X ~ N(810,81) Roverion besplang. X:= 51+ +5100 5:= 10 if not " " 10/50 a) E(x: /= xp= 100x 1 = 5 Nortx /2 x 6(1-6)= 100x1 x 10 = 19 6) 95%. Rodina 25 = upper boundon X, = M425 = 5+2/9 =5+419 (1) + (2-1)=0 Nord 1 = 13 (1) + 1 (-1-0) =) M= EZZ-Zby=100x0=0) = Var { 21-20 } = 100 x = 100) e) 991, Contidore iterral for /2,26/=1435=0+3(10)=30

due to absolute " I can't happen

problem 5 : P= 0.5 a) 8/9= \langle \langl b) 8td = \frac{\rho(1)}{n} = \frac{1}{4} = \frac{1}{2500} = \frac{100}{100} Problem 8 3 P=194 =0.388 X= X1+-+ 1500 = = Edx y= 0.388 500 = Edx y= 0.388 Percentage of all people yourd x 1 - PUL Vary 1/2 P(1-P) = 0.388x0612 = 0.00047 => 95.5% controlegae interval= 0.388+ 2 10.00047 =0.388+0.0433 problem 9 : what's important is the sharadoristies of the demographics - demographies are some -Sample Size ande Same => N= 1000} problem 10 , EdXil = 30+ 8491, 250 nation dide average Scare = X = Me + X1000 FOS=1X/3 = 8Hdfxf= 30 = 30 = 0,4488)

Problem 11 3 X= X1+ + 1/100 average numbers in the box = x1= +x100 = Edxil $=\frac{297}{100}=2.97$ b) vary x12-+1/100 /= varyxig acolourt have numbers and Sum So as contidens interes

