: Xi ~ Binemial (40,0) and IID · Pxc% = (40) 6x (1-0)40-x Pz (x0 = (401)8 (T xi) (40-xi) !5" (1-0)320 ( = 5) 5 xi we can find Tix = 20%; is sufficient solutionic for 6 assure &= X then E[ê]=E[X]=8 unbiased Var(6) = 6(1-6) 2 lay 2 (0;x) = 30 lay P2(X/6) = 2xi - 540-xi) Fisher Information I(x) = - E (DEX) - \frac{\frac{2(40-\text{7i}}{1-6})}{1-6}] = <u>320</u> = 0(1-6) · : Craver-Raw Lower Band  $= \frac{1}{6[6-6]} = \frac{1}{7[0]} = \frac{6(1-6)}{320} = \text{Vor}(6)$ :  $\hat{\theta} = \frac{\pi}{n}$  is the estimater which minizes MSE