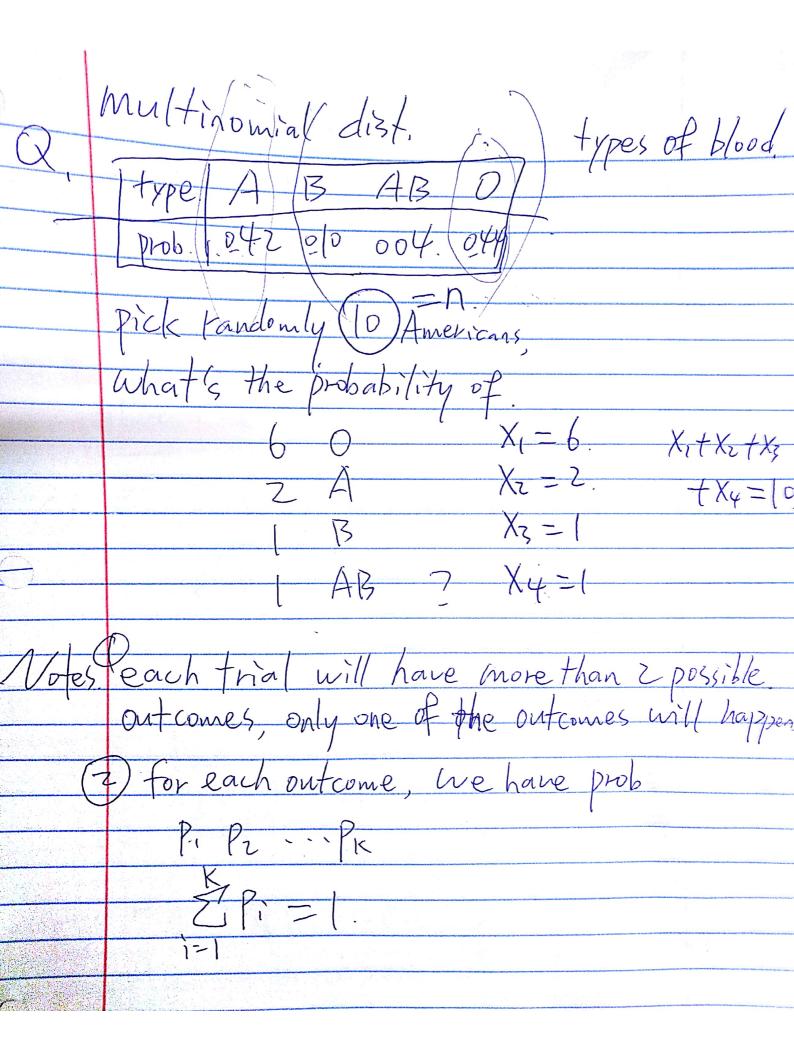


independent XI, XZ. What is the dist of Sum, X, +Xz? $\chi_{i} + \chi_{i} \sim P_{o}(\lambda = \lambda_{i} + \lambda_{i})$ (000 XS. X2 Po(X) birthrate ~ Po(2.3) Perhour. birthrate ~ Po(1.6) perhour. What's the prob that in total 7 births From A and 13.



E(X)=n-P. Var=np(1-P). $(1-p)^{k}$ multi nomial. X, Xz, ... X_K
Z, X; = n. Var=nP,(1-P) E(Xz) = n.Pz. Var=n.Pz(1-Pz) T-(XK)= N.PK