1. 15 sholants & que stions a) students with more tran 1 question 8/15 for each shout answeing I agestion 6/15 1 question for each student + 1 Student onsuer 2 questions for I arestrum each + 2 stock 15 7/15 and 2 grestions each 12; 7! = [0.1012] 00000 - 99999 2 2 odd digits Conerate & #'s in saccession 5 xn x 2 x 6 x5 = 1700 0 dd 0 dd 2 : even

(3 4 0 0

3 5 6 (25) 4

5 7 9 6 Choires 6 9 V(suces)) = 4200 = 21 = 0.042 Plfzilive) = 479 500 (8) (31) 5 (475)3 ~ [U.00006,19]

3 SIX Sided Fair dice A = 2+ dia == 4+ B= all 3 dice are the same P(3) = 18 + 318 = 12 (0.5) = 1/8 V(B) = 6 . 2 . 1 = 1 IF :-dependent, V(BIA) = PCB) and PCA(B) = PCB P(A(B)= = 1 = 2 = P(A) PLB(A)= 3, 13. 6 = 3, = 12 + 3, = PCB) First one 2-0 3-0 must is 4th must be be some tre since as (st A is independed of B, but is is dependent

9. P(Flush) 9. $\binom{13}{6}$ = 9.1287 ≈ 60.001981 It's showe tric as each hand fillers
the same odd's as the last E(x) = 1 ~ 50 4.8485 p (FIGH) 0.001481 f505 hands 5. = - team that won 415 sames F = super star played P(F) = 3 = 0.75 => glayed P(F) = 1/4 = 0.25 => -+ played P(FIF) = P(FIF) P(F) P(EIF) P(F) P(EIF) 1 gnm = (trial Pluirring) = 0,7 P (1021) = 0,3 = Q Syporster is playing · · P(LIL & Sures) P(1,4 1 Short)
P(E1E) = (5) (0.5)4 (6.5)1 = 0.15 625 = proh. of Kan lodins

P(FIE) = P(FIF) P(F) P(FC) P(FC) = (0.31015) (0.75) + (0.156 W) (0.25) P(FIE) = 0.87365 = pnb. team non 4/5 sames when syperstra PCFIED = [87.315 %]