22/ 22 Binomial Distribution for 4 -> *Por 5 PINS # 11 - #+ NSO #W=1, #1=4 * for 5 firs

2 Heads 065 coin flips 1) 1) + + + N=10] H++++ 6+++4 世しばしし 5 d 4 2 C) over-count + HH++ 7 + + + + + } which means there is two +4+4 Probabilities have the Same Probability ++HH+ 32 ++H+H+32 +++ ## 1 25 coins flips 3 48285 医进世山山 HULLING 3 × 2 × 1 m for the for the for the third one one 出进进山山与与人人的 5.4.3 MI = n(n-1)n-2)(n-1)t = KI (n-1)! 125 Coins 3 Deals 1256

P(H) = 0.5 P(XH) = 1 what is the Probability of number etherds educatly ence flip coin 5-lines 51 41 X11 5 \$ Size of truth table = 25 = 32 PLA = 5 32 SL if we change P(# A) = 3 51 31x21 = 10 =) PCA) = 10 =2 if we change P(H)=0.8 p(#+18ads)=1 AliP Coin 3times 31 21 ×11 = 3 3 + Ht. (A) = 0.8 × 0-2 × 0.2 × 3 = 2 P(H) =0.8 P(# H = A) Slip Ecin 5 times 5! - 5 HHHH+ 1! x 4! P(A) 30.8 ×0.2 × ×5 0.4096

FOR P(#H= 3) <u>51</u> 3 10 => 10 × 0-8⁷ × 0.2² = 2 Plip coin 12 times PXH2=9) 121. - 220 -) 220 x 0.8 x 0.2 L Summory: (n-K)! KI 3 for calcabe number of probabilities PK(1-P) n-k? for calc the probabilities of one dist we can use it to calc any events that have two out