HHHH, HHHT, HHTH, HHTT, HTHH, HTHT

HTTH, HTTT, THHH, THHT, THTT

THTH, TTHH, TTHT, TTH, TTTT

The probability of getting excally two head = 6

Twill make atable to aprove P(K) = (W) (1-6) - 10 pk

In this table i will write the probably of

In this table i will write the probably of

geting to head, head, 2 heads 3 heads) u heads]

tablec!): Find probabity of # heads from T diagram		
# heads excally	# of combination	probal:ty
0	1	16
1	4	4
2	6	<u>6</u> 14
3	4	16
4		16
		O head in 4 tossing

from the tabel the probality of 0 head in 4 tossing time = 16. We assume K=0, N=4, θ and we will apply those terms in $P(k) = \begin{pmatrix} N \\ K \end{pmatrix} \begin{pmatrix} 1-\theta \end{pmatrix} \begin{pmatrix} N-k \\ \theta \end{pmatrix}$ P(K=0,N=u,e) = P(tails) P(tails) P(tails) P(tails) $= P(tails) = \begin{pmatrix} N \\ 0 \end{pmatrix} \begin{pmatrix} 1-\theta \end{pmatrix} \begin{pmatrix} \theta \\ \theta \end{pmatrix}$ $= \begin{pmatrix} 1-\theta \end{pmatrix} \begin{pmatrix} N-k \\ \theta \end{pmatrix} \begin{pmatrix} N-k \\ \theta$

3.1 P(K=1 N=4) & Ep(heads) P(tail) P(tail) P(tails) (ombanitory = 4(6)(1-6)"= 46(1-6)3 Let do this for K=2 for excarly 2 head p(K=21 N=4, B)= p (heads) p (heads) p (bail) p (bail) (combaniton) = 60° (1-B) = 60° (1-0)= we can see from the above experiments P(K) = (N) (1-B) W-K De tossing when when we had rise to head rise to head rise to head rose to head tails to the raise to the nuber of of combution probably of k P (N-10) Eail P(: probably of two heads = [6] 62 (1-6)2 probally oc Combnuiton N- k Eails