The whole that the cord is red, therefore our comple 2. P(cord is heart) = 13 + 1 Air Possible even outcomes: {2,4,6} P (number = 2) AG. B(B) = P(Br) = 1/2 { begin are chosen randomly: P(Helb) = 1/2 { Fair win } P(H|B2) = 1. { double - headed win } Oring Rayes' Theorem :-P(B2/H) = P(H|B2), P(B2) P(HIBI)-P(BI) + P(HIBI), P(BZ) 1/2 13/4 P(B2/H) =

	PAGE No. DATE
AT	Let P(D) = 0.001 (probability of directe)
	P(TTD) = 0.999 (probability of no dices.
	P(+ (~D) = 0.01 (calle positive)
	Ving Bayer Theorem :-
	P(DITT) = P(TID) - P(D) 1949 SHING!
	$P(T^{\dagger} D) \cdot P(D) + P(T^{\dagger} D) \cdot P(D)$
	= 0.99 x 0.001
	(0.99x0.001) + (0.01 x 0.999)
i di sin	· [P(D) = 0.0902) (20.02 · ()
A8	Let P(R) = m.7 (Digos Drobability of mile)
A	P(F) = 0.7 (probability of rain give
	TITTED - VOX given no son
	We want P(RIF), the publishing it rained also
	We want P(RIF), the probability it rained give
1000	1. (28/18) 7 (28) (28/18) 1 (28/18) 4 (28/18)
	Using Bayer Theorem :-
	P(RIF) (FIR). PCR)
	P(FIR), P(R) + P(FINR), P(NR)
	$= 10.9 \times 0.7$
	$(0.9\times0.7)+(0.2)(0.3)$
	1 1 (21 (21) (1) (1) (1)
	(RIF) = 0.913 2 91.3-1.5

	PAGE No DATE / /
49	let P(prep) = 0.7 (students who prepared) P(~prep) = 0.3 (students who do not prepare) P(pay Prep) = 0.9 (shelents who pair given they prepare) P(pay ~Prep) = 0.3 ("" "they do not prepare
	Villag Bayer Theorem ?-
	P(Pay Pay Pep) . P(piep) P(Pay Pap) . P(piep) + P(Pay ~ Piep) . P(piep)
	$= 0.9 \times 0.7$ $(0.9 \times 0.7) + (0.3 \times 0.3)$
	: P(Prep Pay) = 0.87 [2 87.5 %]
Alo	$\frac{P(Boy)}{P(virt)} = 0.6$
	P(Math Boy) = 0.7 P(Math Will) = 0.5
	Using Rayer Theorem :-
	P(Roy Math) = P(Math Boy), P(Boy) P(Math Boy), P(Roy) + P(Math Will), P(Will)
	$= (0.7 \times 0.6)$
	$(0.7\times0.6) + (0.5\times0.4)$
	. ° P(Boy Math) \$ 0,6774