Independent vs. Conditional	Probabili+12S.	
,	Probabilities.  P(IM) = 90%  P(M/S) = 60%  P(S1M) = P(IM/S)  = 0.667  = 0.667	
1)	P(M) = %%	5) a) P(0]F) = 12 P(F) = 15 : P(F) + P(0 F)
	P(M/S)=60%	P(F)=15
	P(SIM) = P(NVIS)	P(F) + P(OIF)
	= 0.0	fulling and dimensions enter 7 independent events
	= 0.667	h) P(NAE) = P(F)-POUF)
	=61.7%	= (15).(2)
		· Sailing and chapping and independent events. b) P(DNF) = P(F) - P(O)F) = (古)·(立) = 30
2)	a) P(HBP/DE)= P(HBP/DE)  - 3000  - (1993)	
,	2 And (VE)	6) a) art independent
	= 0,833	h) independent
	- 100 - 183 3%	() MILL in do Dandon +
	-83,3% b) p(DE   71BF) = P(HBP/DE) = 2000	b) independent C) nut independent d) nut independent
	2300 (187)	Or Hart (Least Means)
	= 0.500	Flat indianales I have into all 1 - O(110)
	= 50.0%	L) D(A10) - P(A18)
		1) (VIIO) - PB
3/	$0) i) \rho(LP) = \frac{n(LP)}{n(CS)}$ $= \frac{133}{446}$	7) a) independent because $P(A) = P(A B)$ . b) $P(A B) = \frac{P(A B)}{P(B)}$ $= \frac{3}{2} \frac{1}{2}$ $= \frac{1}{2}$
	W W ((LF) - 1/18)	- 12
	- 406 - 6.328	nut independent became P(A) = P(A B)
	- 0.328	81.1010071000 9/31
	-32.8/0(D)) - N(D))	8)a) p(F/7) = p(F) · p(7) = = = = = = = = = = = = = = = = = = =
	(c) P(UV) - (ns) 231	52 52
	=32.8% ii) f(ON) = (NON) = (31) = (32) = (	- 160
	~ U, U07	11.0150 A) - 0151 01115)
	iii) ρ(LΡΛLN) = n(LPΛLN)	6) P(E) (1) = P(E) · P(A) E)
	= 56.9% <u>n(LP)(N)</u> iii) P(LP)(LN) = ncs) = 123.00	= 169  independent. 80  b) PLEN A) = P(E), PLATE)  = 52 · 51  = 63  101+2 relevant.
	- 406 - (1) 2 - 2	- 003
	- U. Ses	10+(NULPERAMY)
	:u) 0(1 D11 u) - P(LINUV)	C) P(N/N) - P(N) · r(N/N)
	- 0.263	= (50) (S1)
	- 466 =0.363 =30.3% iv) P(LP1LIV) = P(LP1LIV) = 0.263 0.431 = 0.703	= 663  Notindependent,  C) P(K/K)=P(K) · P(K/K)  = (50) · (31)  = 701  Notindependent,
	= 6.763 = 70.3%	nut independent,
		(1) . 1 Yes
	b) They are not independent because P(LP) = P(LPILIV)	1) n//( 1(4)) a h(4) a h(0)
4)	r) 0//10\ = 36%	b) n((c,p,ca)) = n(c) · n(0) · n((a) = 2 · 6 · 62
9)	E) P(GIR) = 36% E) P(GIV) = 59% E) P(BIR) = 64% EV) P(BIV)=41%	- 624 - 624
	(U (UTIV) - 0770 222 DIO 10 - 1400	- 00T
	DU T(BIK) = 0% (0	C) P(H) 6/1 (5/2) = P(H) - P(B) - P(K) = (2) · (6) · (6/2) = 1/66 d) P(T) (A) = P(T) · P(A)
	W) P(15((V)=9(/0	-(2),(5),(62)
	b) P(N/B)=P(N)·P(BIN)	- 166 - 10170 A) - 100 A(A)
	=(0.7)(0.41)	$\begin{array}{c} (0) \gamma(1/16/4) = \gamma(1) \cdot \gamma(6/4) \\ = (1) \cdot \gamma(2) \end{array}$
	= 0.187	$= (-\frac{1}{2}) \cdot (\frac{2}{52})$ $= \frac{1}{62}$
	=28.7%	2 0/40 (24) 24(1) 24(1)
		e) $P(0 \cap 0 \cap 6) = P(0) \cdot P(0) \cdot P(0)$ $= (\frac{1}{6}) \cdot (\frac{28}{52})$ $= \frac{2}{52}$ $5) P(E \cap 24) = P(E) \cdot P(24)  \text{g) } P(3) = (\frac{1}{2}) \cdot (\frac{4}{52})$ $= (\frac{1}{2}) \cdot (\frac{1}{6})  = \frac{1}{156}$
		= はり・(で)・(節)
		(1) 1/2 - 1 / 1/2 / 4 1
		31 (E/) 24) = r(E) · r(24) 9 (P(S) = (2) · (6) ( 82)
		= (12) · (15) = 156