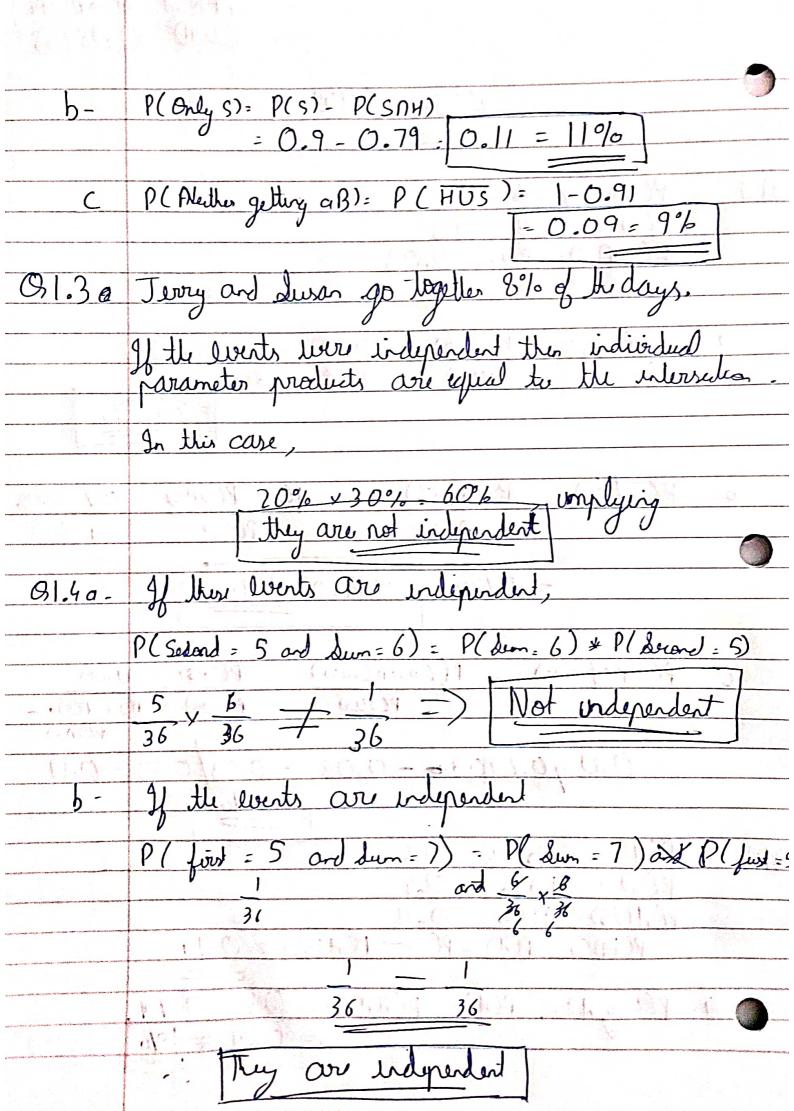
HARSH.S. AGRAWAL CWID - 10475285

| | CS:513 (HW-1) |
|--|---|
| Helikida kushiya kopini da sakika wa 1990 - Maja wa 1990 wa 19 | |
| | |
| 01.1 | P(J) = 20% = 0.2 |
| | P(s) = 30% = 0.3 |
| | PCJNS)= 8% = 0.08 |
| | Les I be 198 will go and by gather police |
| 77 | |
| 0- | P(J/s) = P(JNS) 0.08 = 8 2 0.267 |
| | P(S) 0.3 30 |
| 14. | = 26.7% |
| | 3.017 |
| | 0(7) 0(504) 5 2 2 2 2 |
| b- | PCJ/3) = P(JAS') = PCJ)-PCJAS) = 0.2-0.08 |
| | ρ(ςι) 1-0.3 |
| | 12/2 21210 170 |
| | = 12/70 = 0.171 ~ 17°10 |
| | 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | P(Jns/Jus) = P((Jns)n(Jus)) = P(Jns) = 0.08 |
| | P(JOS/JUS) = P(JOS) n(JUS)) = P(JOS) = 0.08 |
| 1 | 6(202) |
| A 2200 - 40-400 | = 0.08/0.2+0.3 = -0.08 = 0.08/0.42 = 0.19 |
| | = 0.08/0.2 + 0.3 = -0.08 = 0.08/0.42 = 0.19 |
| <u> </u> | |
| 012 | P(H) = 00% = 0.8 |
| 01.2 | P(S) = 90% = 0.9 |
| | P(HUS)- 9190: 0.91 |
| | : P(H)S) = P(H) + P(S) - P(H)S) = 0.79 |
| 80 | |
| Q- | P(ONLyH) = P(H) - P(H)S) = 0.8 - 0.79 |
| | = 0.01 \(\alpha \) 0/0 |
| | |
| | |



P(00 4Tx), 30% Q 1.5 a. P(chase Tx): 60% P(oil is NJ) = 10% P(chase N): 10% P(a) in A k) = 20% : P(dor AK): 30% P(Oil)= P(Oil/Tx) × P(Tx)+ P(Oil/AK) × P(AN) + P(oil/NJ) × P(NJ) =0.30 x060 + 0.2 x 0.3 + 0.1 x 0.1 = [48ac4 0.18 + 0.06 + 0.0] PCTX/oil) = P(TX/Oil) P(oil) 0.3 × 0.6 1490 & = 0.677 Os 60 - P(& Not survive)=)= 2201 ≈ 67.7% P(First class) = 325 = 14.8% ~ 0.148 203/711 P(FC/surviy). P(FC) surviy P(survior = 0.185 228.5%

d- P(survival)= 1-0.677 = 32.3% -0 P(first class) = 14.8% : (1) × (3) guies us 4.78 % P(FCNS) = 203 _ 9.22% Here they are not independent C-P(Firstortchild/Survived) = P(First n child n Survive) P(survive) = 6/7/1 ≈ 0.00 B4 brough it has see couls i minusta 101.840/6! F- P(Adult / Survived) = P(Adult 1) Survive) P(survives - 654/711 = 0.9198 = 91.98% 9: P(adult 1) Harconied): 197 = 0.089 P(child n frist) = 6 = 0.0027 P(dulu) = 57/2201, P(Eint) = 203/2201 P(adull): 654/2201 P(chid) × P(Firm) = 57x203/(2201)? = 0.0023 P(adult) x P(Eins) = 197x203/(2201)2 10.00B) Dirie P(adult P find) I P(adult). P (first) =) Adult and first clars are not independent.

Que that passenger survives derie P(child P First) 7 P(child). P(First) =) Uild and first class are not independent gives that passenger survived. h while the down