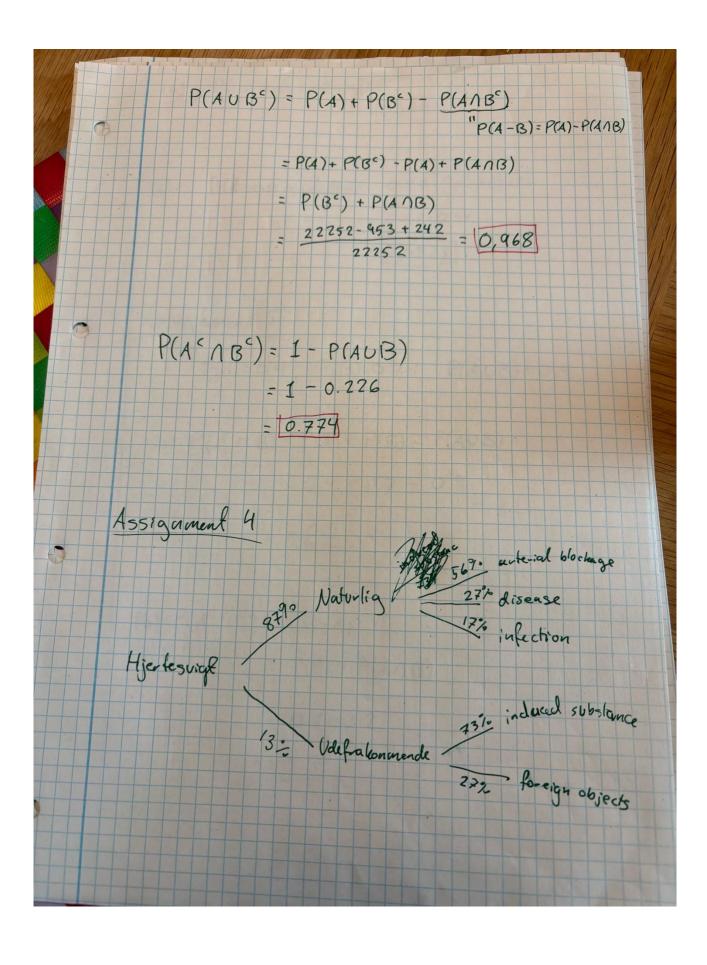


Assignment 2 (a) Antal 4-cifrede tal lauet af cifrene 2, 3, 5 uden genbagelse Permutation P6 = 6.5.4.3 = 30.12 = 360	, 6, 7, 9
(b) Strderende skal besvare 8 vd af 10 sporgsmål bil eksamen Kombination C'0 = 10! = 10.9 = 5.9 = 45	
(C) Numme plader m. to forskellige bogsta herefter 5 forskellige (ifne (0-9) Muligheder for bogstaver $P_2^{26} = 26$ Muligheder for tal: $P_5^{10} = 10.9.8.7$	
Total until mulique numme-plader: P26 P50 = 650.30240 = [

	(d) Lo	to the folar	e ikhe	vighia		
				3 3		
	Ko	ombina	tion			20 - 2 - 2 - 2
		36	36!	361	7 36.35	·34·33·32·31·30 6·5·4·3·2·1
		7	7: (36.	7.20		
					= 8,34	17,680
	(e) Sa.	dsymli	ghed fo	- at vic	role i Ci	Ho
	(0 = 73	47680	= 0,000	00012	
		83	4700			
	A	. 13				
	Assignm					
	4 600	shelling	e hospit	aler i C)K.	
7		1	2	3	4	Total
-					4329	22,252
	Total	5292	6991			0.02
	LUDG	195	276	246	242	953
	LWBS					111195
	Admitted	1277	1558	666	984	4485
	Not admitted	3820	5163	4728	3103	16,814
	Not admitted	3020				

Handelse A: besøg på hospital 1 Hundelse B: LWB5 XAT 1A ABI = [195] |A"| = 22252-5292 = 16960 AUB = [AI+ [B] - [ANB] = 5292 + 953 - 195 - 6050 (b) Handelse A: be socy på hospital 4 Handelse B: LW135 P(ANB) = 242 = 0,0109 $P(A^c) = \frac{22252 - 4329}{22252} = 0.805$ P(AUB) = P(A) + P(B) - P(A AB) = 4329+953-242 22252 = [0.226]



P(induced substance) = 0.13.0.73 = 0.0949 (6) P (disease or infection) = 0.87 (0.27+0.17) = 0.87.0.44 = 0.3828 Assignment 5 P(A)=0.4, P(B)=0.7, P(AUB)=0.9 (a) P(A 1 B) = P(A) + P(B) - P(AUB) = 0.4 + 0.7 - 0.9 = 0.2 (6) P(A'NB) = P(B-A) = P(B) - P(ANB) = 0.7 -0.2 = 0.5

(C) P(A-B) = P(A) - P(ANB) = 0.2 (d) P(A'-B) = P(A') - P(A' AB) = 1 - P(A) - P(A n B) = 1 - 0.4 - 0.5 = 0.1 (e) P(A'UB) = P(A') + P(B) - P(A' 13) = P(AC) - P(AC) B) + P(B) = P(A'-B) + P(B) = 0.1 + 0.7 = 0.8 P(A1 (BUA')) = P(A) + P(A'UB) - P(AUA'UB) = 0.4 + 0.8 - 1 = 0.2

Assignment 6 A, B, C, D hold i en turnerina P(A) = P(B) P(C) = 2 P(D) P(AUC) = 0.6 Da hun ét hold han vinde P(AUC) = P(A) + P(c) = 0.6 P(BUD) = P(B) + P(D) = P(AUC) = 1-0.6 = 0.4 P(0) = 0.4 - P(B) = 0.4 - P(A) P(c) = 0.6 - P(A) = 2 . P(D) 0.6 - P(A) = 2. (0.4 - P(A)) 0.6 - P(A) = 0.8 - 2P(A) P(A) = 0.8-0.6 = 0.2 P(A) = P(B) = 0.2 P(c) = 0.6 - P(A) = 0.4 $P(0) = \frac{1}{2} \cdot P(A) = [0.2]$ P(A) + P(B) + P(C) + P(D) = 0.2 + 0.2 + 0.4 + 0.2 = 1