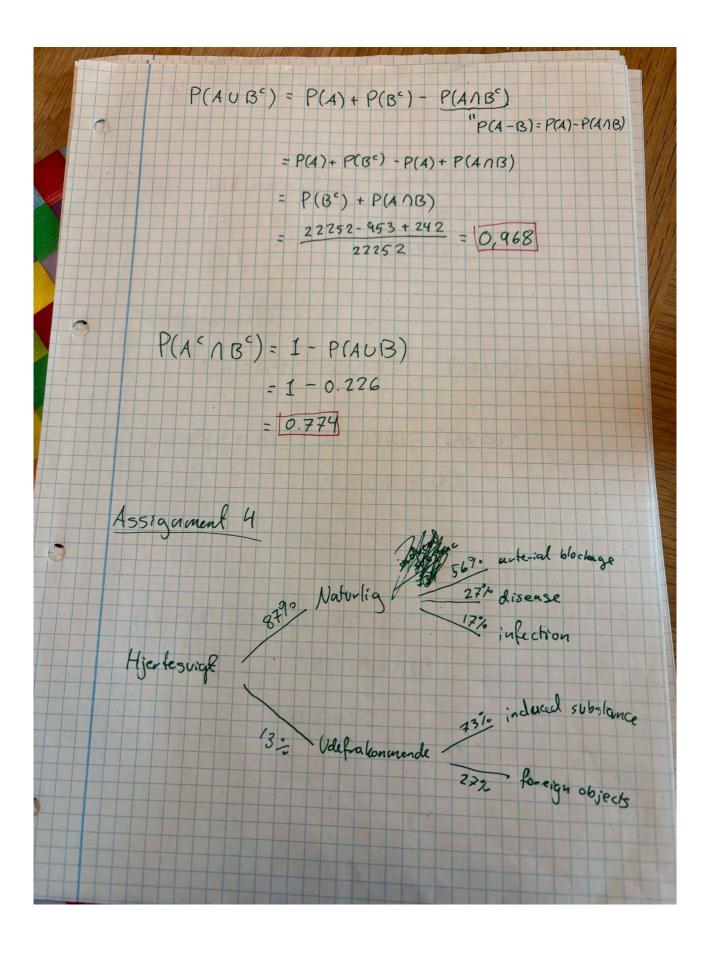


Assignment 2 (a) Antal 4-cifrede tol lauet af cifrene 2, 3, 5, 6, 7, 9 uden gentagelse Permutation P6 = 6.5.4.3 = 30.12 = 360
(b) Strderende skal besvare 8 vd alg 10 sporgsmål bil eksamen Kombination
(C) Nummer plader m. to forskellige bogstaver (A-E) herefter 5 forskellige cifne (0-9)
herefter 5 forskellige (ifre $(0-9)$) Muligheder for bogstaver $P_2^{26} = 26 \cdot 25 = 650$ Muligheder for tal: $P_5^{10} = 10.9.8 \cdot 7.6 = 30240$
Total untal mulique numme-plades: P26 P50 = 650.30240 = [19656000]

		ikhe	vigng		
K	ombina	tion	246	36.35	34.33.32.31.30
	C7 =	7! (36-	7)! 7! 29!	7 7.6	34.33.32.31.30
					17,680
				0,	
(0) 5	0 1-	4000	- at vin	-0.	.,
					tho
	0= 120	1 7680	- 0,0000	50012	
	83.	1700			
Assigna	rent 3				
		hasait	aler i D	IK.	
1 10	, or y				
	1	2	3	4	Total 22,252
Total	5292	6991	5640	4329	20,00
	10.5	276	246	242	953
LWBS	195	240			4485
Admitted	1277	1558	666	984	4485
Not admitted	3820	5163	4728	3103	16,814

Handelse A: besøg på hospital 1 Hundelse B: LWB5 XAT 1A NB1 = [195] |A'| = 22252-5292 = 16960 AUB = | AI + | BI - | 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(ANB) 4329+953-242 = [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'NB) = 1 - 0.4 - 0.5 = 0.1 (e) P(A'UB) = P(A') + P(B) - P(A' 13) = P(A') - P(A') + P(B) = P(A'-B) + P(B) = 0.1 + 0.7 = 0.8 P(An(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