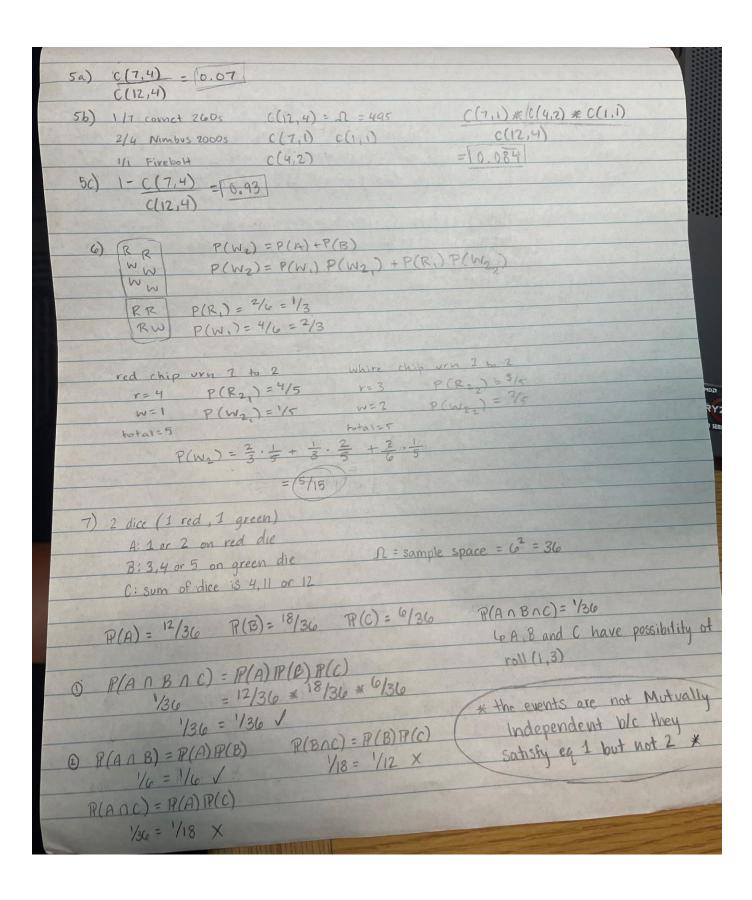
	and an Alba
Stat 330 HW1	Neha Maddali
$1a) \Omega = 2^3 = 8$	NO CONTRACTOR OF THE PARTY OF T
EHHH, TTT, HTT, HHT, TTH, THH, THT, HTHE	
	E ac
1b) i) A exactly 2 tails = {HTT, TTH, THT } - 3 possibile	HES
ii) Bat least 2 tails = STTT, HTT, TTH, THT }	4 possibilities
iii) clast two tosses heads = {HHH, THH} - > 2 possibility	ics
. 7	and the same
Ic) i) A = {HHH, TTT, HHT, THH, HTH} -> 5 poss	ibilities
ii) AUB = 3 HTT, TTH, THT, TTT3 = 4 possibilities	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
iii) An B = SHIT, TTH, THT 3 - 3 possibilities	
iv) Anc = 303 -00 possibilities	
	1.219
12a) R (MB V HD) = P(MB) + P (HD) - P(MB O HD) = 1	1
0.35 + 0.3 - 0.2 = 0.45	
P(MnH) = 1-0.45 = (0.55)	A Francisco Act
26) 1-P(MUH) (0.45)	The State of the S
126) 1-11 (MUH) W	The state of the s
3a) 12-71:10 = [1320] possibilities	The state of the s
3a) 12.11.10 = 15201 post	OF SCHOOL STREET
3b) 12C3 = 220 possibilities	
3c) 3.2.1 = 6 possibilities	
4) total possible = 658 26 + 26 + 10 + 3 = 658 possi	ble passwords
4) total possible = 658 26 + 26	The last to the last
da uppercase = 37	
Totale wild lower case - J	-2.8
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ase = 20
positive digits	= 100
possible w/o special chars= 628 m/ only digits possible w/o special chars= 628 m/ only special	1 = 38
w/o uppercase + lowercase = 138 = 658 - 398 -	398-558-628+
w/o upper 4 digits = 29^8 = $65^{\circ} - 30^{\circ} - 30^{\circ}$ = $13^8 + 29^8 + 30^{\circ}$	368+298+368+528-
10 1/9 1	310 721 100
268-268	-108-38
W/o lower + digits = 298 260 - 260 260 - 260 = 65552253	13) possible possinords
ula lower & special chars	13) possible passinords
w/o digits + special chars = 528 = (6.5 × 10	Man de man de la



= 0.15 * 0.95 (people with disease) + (1-0.15) * 0.10 (people w/o disease) = 0.2275 8a) positive test P(positive) = (22.75%) 0.1425 _ 0.6264 = (62.641) 86) (0.15) (0.95) 0.2275 (0.15)(0.95) + (0.85)(0.10) 8c) P(no disease | positive test) = (1-0.15) (0.10) = 0.3736 0.2275 =(37.36%) 9a) A + B are in a series, so reliability = P(A) P(B) = 0.95 × 0.9 = (0.855) 96) AOB are in a series parallel to series C+D P(AAB) = 0.855 P(CAD) = 0.56 1-P(ANB)'P(CND)' = 1-(1-0.855)(1-0.56)
= 1-(0.145)(0.44) = (0.9362) 90) 1- (1-0.95) (1-0.9)(1-0.8) 1-0.001 €0.999