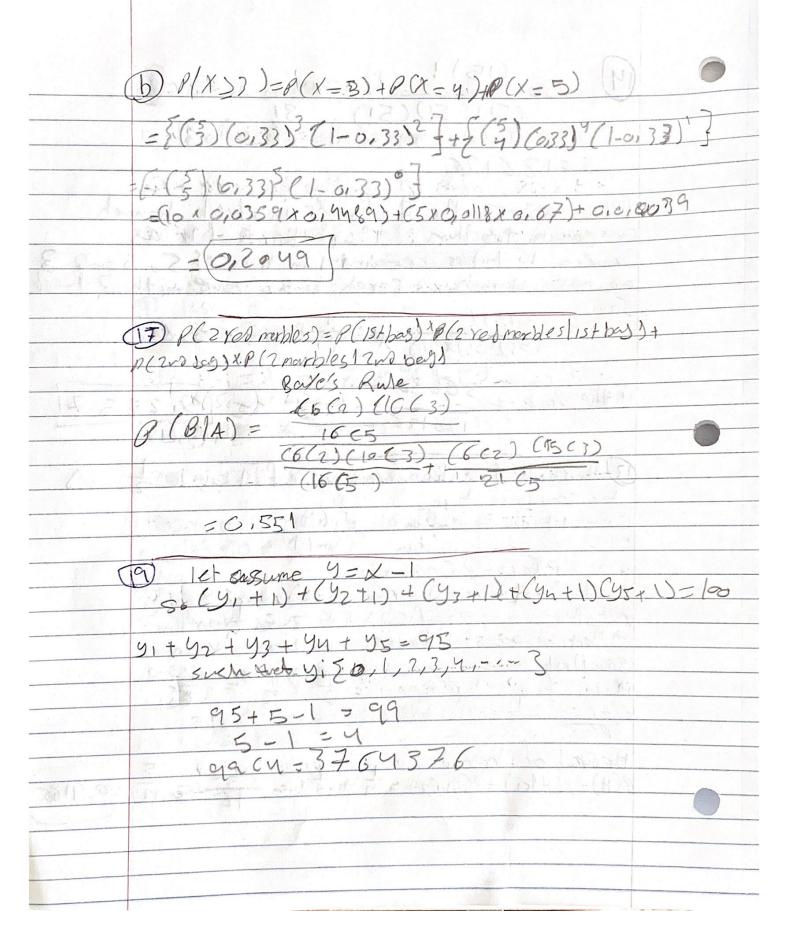
- Huz -Dom Arishi Dy Coffee THes: 2 OFF For Croom of No Croom 2 1 for sugar or 1 Sugar 2 1, milk or vo milk So; token of rest= 4x3x2x2x2=98 2): The order in this case metter believe we bout to 12 Pg = 12.11.10.9, 8, 7, 6, 3, = 19958400 99: 20 Black Phones 30 white is it molores takes to roundomly.

@ p(4 Black) = (20C4) (30C6) = 0.280 (50 C10) 0 P(less Hem. 3 Black) = (1) (20 C2) (30(8)+(200,) (30(9)+(20(8)) (30(10 0.139 7) 9: 50 Students the Probis the complement of Prof choosing not Choosing me or Joe. not enousis me or Joe)=1- 48 (15= 0,857

- Dam Arishi

	1 No of letters = 13
	# 61 repeated letters with count;
*	a=2 5+4 += 2
490	301 normber of wests: 131 -64864800
of total	(21x4/X51)
a states in	1 Wsing Binomial Law. ON Probserve & neads arteril) = 20 (8 pg (1-P)
tal 2007 P	= 125970P8(1-P)12
	Delobserve & news & tails)
	700g P7(1-P) + 20 C10 P10(1-P)+
	7011P"(1-P)= 167960P19(1-P)"+18.47.568"(1-P)"+1679808"(1-P)9
	(10) for sensor (0,0) to send messade to the Sensor at (20,10) It will have sens to only 20 horizonal sensors and any 10 hertical
	Sensors; plus this is a premutation of 30 objects (steps) out of 20 are of other kins.
	= 201 = 300 450 15
4.78 12.3	20, X101, 300 days
	13 The Chapter of the

5=176126 cur sorah tosopher so If no other of It as 504 (51,)x(51,)x(31,) * 11 the 866 b -Samplarly get nes P(cz) the arrob of 12 30,4166 111



ninzm3 ny=(1)(5)(4)(3)=60(1 ning ny 15 (2)(4) (1) (3)= 96 Since these cases are motorly exclusive then the total number of even four-digit = 60 + 96 = 156 2.18) sine the armond and distinguisherde, It's Deprosperation Poblem, Die to fail monder of scull Points = 25 Pg - 25! - 25! - 25x 24228 < 13,800 as the total of diaces of offices with out on one the triction 50P2 = 50! = (50) (49) = 2450 it A selected es - bhe prosident, which Yields 49 Possibol ii): officers are sciedled from the remaining of People without A which ves for number of chaces 235-72, so the total number choices 49+2352=2401 O number of Beletion both Base serve together is 2, the number of selection when both Bord c are not choosen is usle = 27 56, therefore, the toutal number of choises in this core is 23 + 2256 = 225#

solection D primber of when D. some of officer but not E 115 (2) (48) = 96, where 2 is the Polision : D the # of selection & serve us officer and Disako, (2) Cus = 95 both E as D not choosen is 4282=2236 total #of Chaices = (2)(ar) + 2250 = 2448 total # of arrangement = 101, = 12,600 the mumber of Portifier - (41) = 361 = 5. 2211 total number of Possible Portition 2,33(a) On ooch & Os an he ares in Muds MXMX MX MXM

2.37 5-B-5-B-5-D-5-B-5-B
5 girls at & Slot for them So, 51 med 31
Seme with posts the wrote in stotaso, MI wass. 5! x !! - 120 124 = 2280 news.
a choosing 3 Republican from 50 Republican
is Sec = Soxyaxus = Soxyaxus = 19,600 mots Choosis y Democrates form yo Democrats
15 40CH= 40×39×38×37=10×17×19×37=91,390 mg
30, Hol my +selecting exactity 3 R and 4 D is 50c3
1 40e y = (19,600) (91,390) = 1,791,249,000 mets
5) P (50) R (Ma) No, 66 mls 7 0 5007. 4000
5 2 50c6, 40c1 5 2 50c5, 40c2 4 3 50c4, 40c3
total No of MI selecting manjority of personats (50c 7 × 40co) + (50c6 × 40co) + (50c5 × 40co) + (50cg × 40cg)
= 4,663,509.200 nels
- 34

