	Math 61 HW#4	
	1. i) 8×4×5 5. i) No Citali	
	160 5×4×3= do 5×4×3=	
	ii) 2×2×2×2×2×2-1 60 selections	
	26-1 ii) Anelicis, Fridais not de de	
	[G3 characters] = 1×4×3=12 selections	
	iii) 6x6 4x1x3=12 selections	
	36 outcomes 4x3x1 =12 selections of	
	36 selections salt at	
	2. X= EA, D, C, D, E, F32 - 1 iii) Deather is chair or treasurer	4
	i) R=5, Besinul F, and w/ A 1x5x4= 20 selections	
	1×5×4×3×1 so selections	
	60 strings of sales for el adigno elles (40 selections) en adaption of	
	(i) l=5, Begin W/F, end W/A : and sold and the	
	1×6×6×6×1 - 1 tof synnet(1c relations	
	216 strongs a some door of xxx polices destrict	
1	111) R=5, Degin W/F, don't end w/EB	
	[ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	140 strings strength and all of diagonal non month of	T-0.3935
	20 20-1/2	
	3. i) Ispres: 1×3=3 selections 2(night)	
	Is not office: 3×2=6 selections 26=164 relations	
	9 selections ii) # of anti-symmetric relations	
6	ii) Is pres: 1×3=3 selections straight to [x x x] along the Issue: 3×1= 3 selections	
3	Is sec: 3×1= 3 selections	
	6 selections It was a come to diagonal, n2-none	
	1 mily den is real advanced to 20.3(2) + 11 d	
	4. i) ST: 6 mays Notice 11 23. 33 = 8.27 - 11712	
	SII: 2 ways make shallow old - on 1216 relations had a sold	
	8 ways and others on denied or de (ii) 2 (n2,0/2) and blood of months.	-
	ii) RZ: Sways	
	DZ: Sways Construct 1024 relations statisting of	-
	(0) 20.3(2)	
	(ii) R2:6 ways 24.3(6) =	
	DZ: 5 ways [11664 relations]	
	(11 ways)	46

	, and the second		
7	7. Beal17 chair: 125×4=20	11. X= {w,x,J,Z}	
	Abigail scc. : 5x1x4=20	C(4,0) = 4! = 4 confinctions	
	40 selections	WKY, WXZ, XYZ, WYZ	
	Both counted 2x		
	40-1 = 39 sclections	12. Urak-hei: ((10,4) = 6:4:	
		= 216	
	8. 1-10,000, divisible 155007	Hacorin: C(12,3)= 12:	
	10000/5= 2000	= 220	
	10000/7 = 1428	Nazgul: C(4,2) = 7:2:	
	5×7-> 35	= 6	4
	10000/35 = 285	210-230.6	
	2000 +1428 - 285 = 3142 numbers	277200 ways	
	9. i) permutations of a, b, c, d	AY C: .CI	
	abed, acdb, abde, acbd, adbe, add	1×1×1×48	
	bacd, bade, bdae, bdea, bead, beda,	148 hands	
- 7	cabo, cadb, cbad, cbda, cdab, cdba,	(1) Quads	
	dabe, dach, dbac, dbca, dcba, dcab	13 diff. quads	
	(1) 11!	48×17	
	[1,10.9.8.7.6.5.4.3.2.]	624 hands	
	39916800 permutations	iii) Spades Alush	
	(11) 11 =	$C(13,5) = \frac{8151}{121}$	
	11.10.9.8.7	1287 hands	
	S5440 permutations		
	33 4 10 Permutations	14. i) SALESPERSUNS, l=12	
	10, i) 5+5=(0 distact	412: = 7979200 strings	
•	(0! = 3628800 ways)	ii) BUDDARANTEAMAINÍTIEO	
	ii) 10 orderings / way in line that	Q= 21 → 212121212121	
		2.66×1617 strings	
	are equal	111) QLOGUZMO RUGIMO ER A C'OL	
	362880 LO	l= 19 -> 5[3:2:2:2:2.	
_	362 8 0 Ways		
N		1.056×1013 st(1095)	
			. 1
		15. C(10,1) = 10! = 10 mays	310
	I and the second		