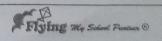
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	COSM chapter-4
	Probability
0	steps outcomes
	3
	2 2
	3 4
	Now many exposimental outcomes exists for the
	entire experiment?
	> # 1 1 - 2000 1 - 2 VO 1 1
	-> Total experimental outcomes = 3 x2 x h
	= 24 OUt comps
(2)	MON many ways can those stems be selected
	from a group of SIX Items?
	$\frac{6!}{3} = \frac{6!}{3!(6-3)!} = \frac{6 \times 5 \times 4}{3 \times 2} = \frac{20}{3}$
	$\frac{1}{3} = \frac{3!(6-3)!}{3 \times 2}$
	Then are 20 ways to select 3 items from a group of 6 items
	trom a group of bitems
	Given A, B, C, D, E & F and 6 tim items



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Flying M. Solve Poulse @

	Combinations?	(AD,F), (B) (BLF), (B) (CEF) 3	DP), (BDE), DP), (CDE),	(BEF), (BCF), (CDF), (DEF)
(3)	Now many selected from	gorm vta Kons	of 3 item	s Can be
	selected from	on a grov	P 0+6	
	> 60	61	- (V	CV 1 2 120
	$-)$ 69 $ 6!$ $ 6\times5\times4$ $ 120$ $(6-3)!$			
		(V		
	There are	120 Personut	ation of 3	items can be
	Selected fore	om a group	of6	items can be
0				
(9)	Tree Days	gM		
	Stop 1	5400	Stop 3	Einal outlomer
	31(1		4	HHH
				инт
	N		n	HTH
			7	NTT
		1 1	n	TNH
	T			THT
		T	M	TTH
				TIT

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(b) Experimental outromes (nnn), (HHT), (HTH) (HTT) (THT), (THT (TTH) (TTT) 3 O Probability for each experiment outlone D O Outcomes: E, E2, E3, En, Es Asigning Probabilities: Probability for Ex to occur = = = = 0.2 Similarly for Ex 1E3, En and Es = 0.2 that satisties equation his which eas leach expersimental outcomes is always between 8 and 1 ie. 0 = p (Ei) = 1 for all ; Also adding Probality of each experiments outcomes gives 0.2 to 0.2 + 0.2 + 0.2 + 0.2 = 1

that satisfies equation his which says some of probabilities of all the experimental out comes is equal to 1.0

ie. P(E) +P(E2) +--. P(En) =/4



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Experiment	outcomes
El	20
EL	13
E3	17
	So

Assigning Probabilities:

 $E_1 = 20 / 50 = 0.4$ $E_2 = 13 / 50 = 0.26$ $E_3 = 17 / 50 = 0.34$

here, relative frequency method is used as the data and available to the estimate the proportion of occurance.

& Given subjectively assigned probability.

P(E1) = 0.10 P(E2) = 0.15 P(E3) = 0.40 P(En = 0.20

The subjectively assigned probabilities and not Valid because it must satisfy two basic requirement of equation (4.3) and (4.3)

P(E) + P(E2) + P(E3) + P(E4) = 0.81

PSO HM sum of all probability for by experimental outcomes is not 1, it is not valid.

