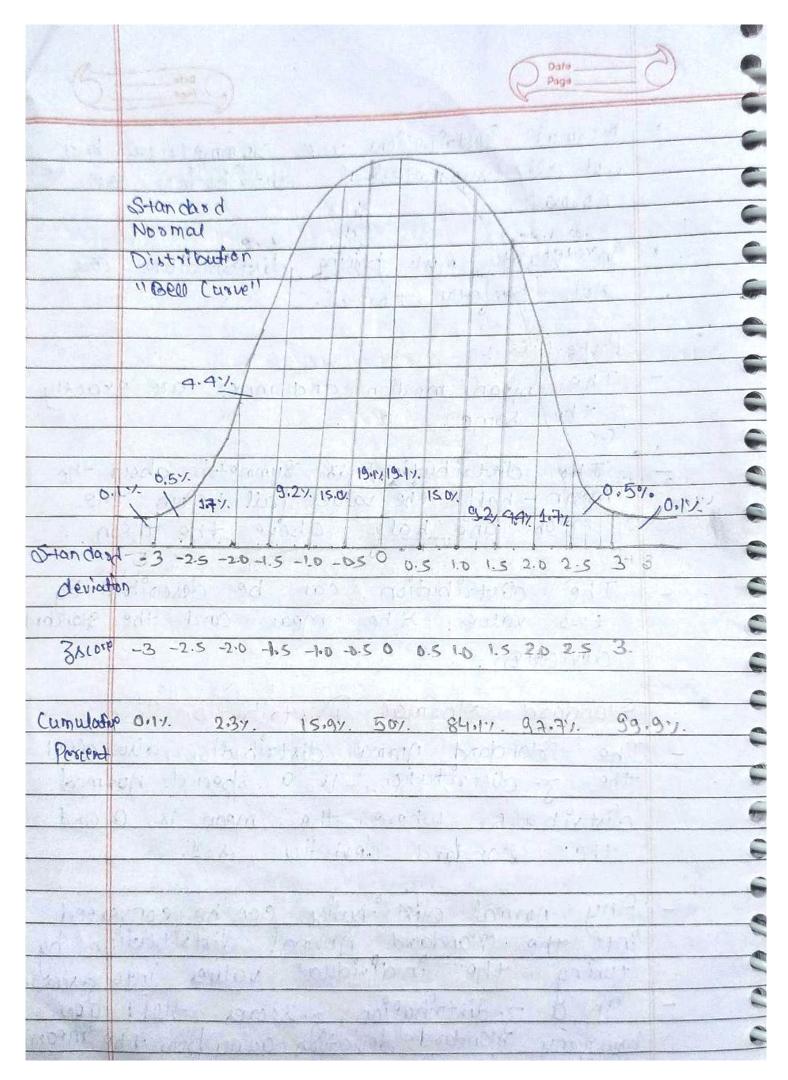
		San Carlo Marianes			
	Poison	and Binomial [Dist sibution		
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		Distribution	- O Andrewson Company of the State of the St		
	The second secon	distribution	describes the		
9.4 2	distoil	idion of binasy	docta from an		
dagota.	intini	te samble. Thus bility of gettir	s it gives the		
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) on	a population.	U		
		al Distribution	DANG L DANGER		
	Binomical Distribution describer the				
	110	ribution of bing.	ry olata from a		
100	distribution of hingry data from a finite sample. Thus it gives the probability of getting a events out of n trials.				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	500	n time gettir	ig a events out		
Bais	s for	Binomial	Poisson		
C	omparison	Binomial Distribution	Distribution		
Me	aning	Binomial Distribution	Paisson Distribution		
Section 1	U	is one in which the	given the count of		
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		number of trials are	accor sandomly when		
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1VUM	rials	F 8x69	9.11		
			Infinite		

	9	Page	<u> </u>
Basis los Com basison	Binomial Distribution	Poisson Dist orbudion	
Succes	Constand Probability	of Success	hance
0 at tomes	only two possible out comes, i.e. success or failure	Ontimited nom of possible o	be d utcomes
Mean and Variance	mean > Variance	Mean = Variance	
Example (Doin Towing Experiment	Printing mistage	book.
Normal Normal Crausia + nod Shawi	n Distribution, 18 18 dynametric ng that abuta e more frequent	so unown as the a probability of about the mean the mean	Ustribulia 19an,

6	Dofe Page
b	Normal Distributions are symmetrical but not all symmetrical distributions are normal.
	In heality, most pricing distributions are not postectly normal.
-	The mean, median and mode are exactly the rame.
Sign.	The distribution is symmetric about the mean-half the values fall below the mean and half above the mean.
_	The distribution can be described by two values: the mean and the standard deviation.
-	Standard Mormal Distribution? The Ottandard Mormal distribution, also called the z-distribution, is a special mormal.
	olistribudion where the mean is. O and the obtaindard deviation is 1.
	Any normal distribution can be converted into the atandard normal distribution by tuning the individual value into z-scores. In a z-distribution, z-scores teels you how many alandord deviation away from the mean value lies.
	how many with alle lies. deviation away from the main



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Marginal, Jaint and Conditional Proba	bilties
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the state of the s	
Scenario Management de la constante de la cons	
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in London's West End to determine people	6,90
lavo site sports. The options were foot	baw,
Rugby, and the rest was grouper togethe	7
in other; The hoult of the tent due displayed in figure.	
Cusplayed in grand.	
male Female Total	
Football 120 75 195	
Rugby - 100 25 125	
0ther 50 130 180	
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Alter Probability Distribution.	
To get Probability Distribution, we div	ide
each number by no. of Observation.	
The state of the s	
male female Total	
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	Joint Prol	sability		
		O,	Lange Co	Contract
	The joint	mapaboli	ry is a	stastical
	manyana +	that is	used -b	calculate
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Na Man	ERY DEAN	morato Dain	a figure	we can
7340	See that the joint probability of someone being a male and a living a football is 0.24.			
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		e i Ha		
	Loar	male .	Female	Total
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	Football	0.24	0.15	0.39
	181		7.4	Total +
	Rugby	0.2	0.05	0.25
	9 6			March 19
	04/68	1.0	0.26	0.36
	Company with the last	ma ma	radawa A	1.59
ania a a		0.54	0.46	1 1
	Nate;	le salar		
	The cell	s highlique	uted is th	je Jairt
	- Probabili	ty Distrib	oction must	+ Osum to 1,
	The cells highlighted is the Jaint Probability Distribution must sum to 1. because everyone in the distribution must be in one of the cell.			
7/4	must t		ne of the c	eln.
	The state of			

	The Joint probability is almostical
	meaning that P (male and Football) =
23	PCFOOTBOIL and male) and we can also
tack the	we it to lind other types of distributions
	the marginal distribution and the
	the marginal distribution and the conditional distribution.
	Market State of the Control of the C
	Marginal Distribution
- 10 A	an probability theory and statistics, the marginal distributional of a subset of
Mr - 146 3	marginal distributional of a subset of
917	a collection of random variables is the
	a collection of random variables is the probability distribution of the variables contained in the rubset.
	contained in the rubses.
0	0.0.0
	It gives the probability probabilities of
	various values of the variables in
- bod	It gives the probability probabilities of various values of the variables in the subset without reference to the values of the other variables.
	values of the other variousles.
	Marginal Probability is the probability
/ 2016 No. W	of an event isrespective of the
	olitions of another evariable.
	Male Female Total
	Football 0.24 0.15 0.39
	Rugby 0.2 0.05 0.25
	0+hex 0.1 0.26 0.36
	0.54 0.46

	Nate:- Whether we ignore the gender or the sport our marginal Distribut- ions must b sum to 1.	4
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V85(11.3	the sport of to 1.	-
	Masi S S S S S S S S S S S S S S S S S S S	
	A fun fact of marginal Jorobability is that all the marginal probability probability appear in the margins. Hence the Pifemale = 0.46 which completely ely ignores the sport the Female prefers, and the Piregby 0 = 0.25	
	is that all the marginal probability	
471	probability appear in the margins.	•
- Av. 1	Honce the Premale) = 0.46 which complet	
	ely ignores the short the Female	
1927	prefers, and the Placegraph 0 = 0.25 completely ignores the gender.	
	completely ignores the gender.	
	C 10.0 1 0 10 10 10 10 10 10 10 10 10 10 10 1	
	Conditional Probability	a c
	9+ defines the Probability of non	
	event occurring given that another	-
	event how occured (by ausumption,	
14 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	presumbtion, auertion or evidence).	
	The state of the s	
	Contract of Academy Contract C	
	P(A1B) = P(A,B) / P(B)	
	The second of th	
56.5	3) we want to calculate the probability	
	ty that a berson would live	1
	Rugby given that they are female. we must take the joint probability that the Person is	1
	we must take the joint	
	probability that the lesson is	

(5)	Page Page			
	female and lives rugby teternale and lugby			
	(P[Female and Rugby)) and divide it by the probability of the condition.			
100000000000000000000000000000000000000	P(Female, Rugby) = 0.05			
own His	P(Female) = 0.46 P(Rugby Female) = 0.05			
9- 19-	E HOR MANYE MAN ARE ENOUGH AND			