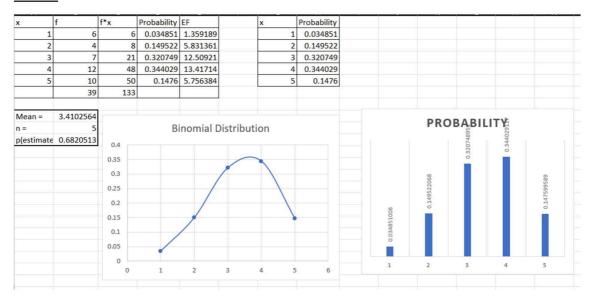
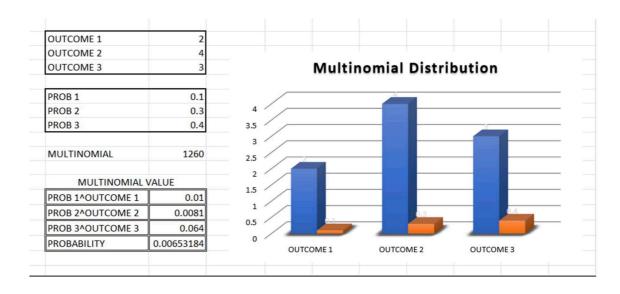


1. Plotting and fitting of Binomial distribution and graphical representation of probabilities.

EXCEL:

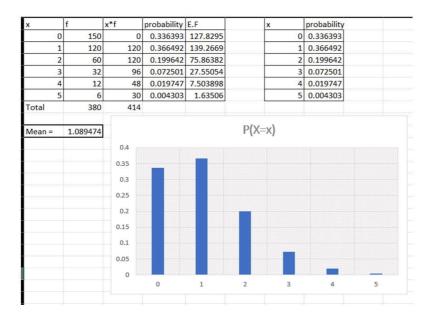


2. Plotting and fitting of Multinomial distribution and graphical representation of probabilities.



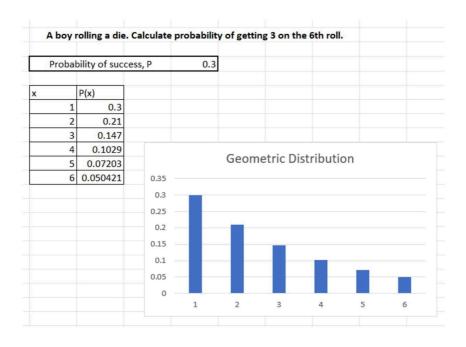
3. Plotting and fitting of Poisson distribution and graphical representation of probabilities.

EXCEL:

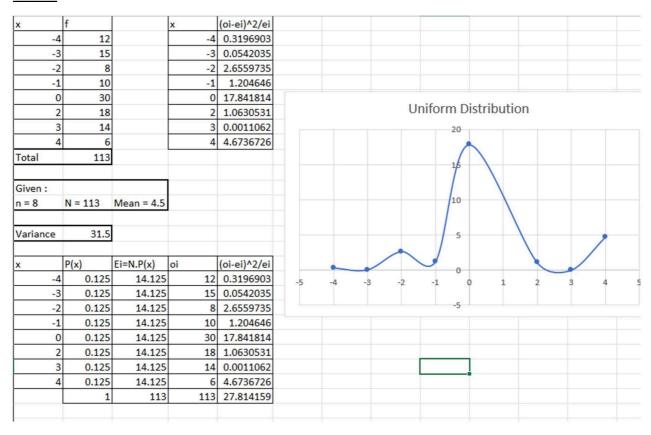


4. Plotting and fitting of Geometric distribution and graphical representation of probabilities.

EXCEL:

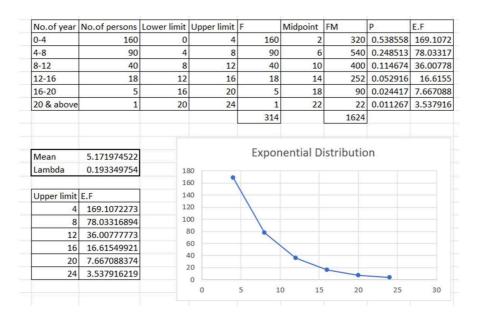


5. Plotting and fitting of Uniform distribution and graphical representation of probabilities.



6. Plotting and fitting of Exponential distribution and graphical representation of probabilities.

EXCEL:

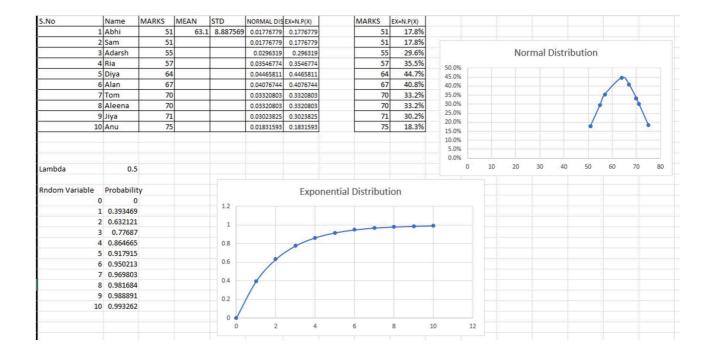


7. Plotting and fitting of Normal distribution and graphical representation of probabilities.

EXCEL:

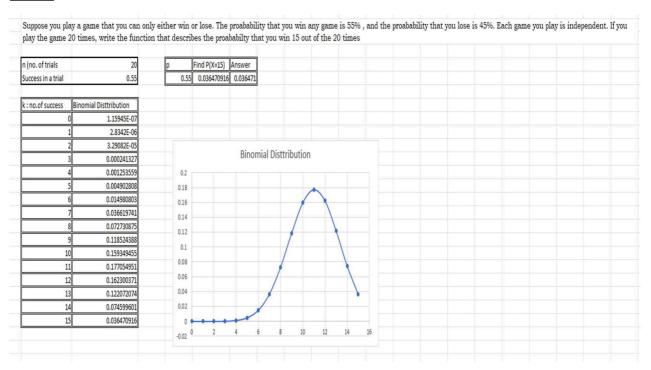
S.No	Name	MARKS	MEAN	STD	NORMAL DIS	EX=N.P(X)	
1	Abhi	51	63.1	8.887569	0.017767789	0.177678	
2	Sam	51			0.017767789	0.177678	
3	Adarsh	55			0.029631903	0.296319	
4	Ria	57			0.035467745	0.354677	
5	Diya	64			0.044658106	0.446581	
6	Alan	67			0.040767442	0.407674	
7	Tom	70			0.033208028	0.33208	
8	Aleena	70			0.033208028	0.33208	
9	Jiya	71			0.030238247	0.302382	
10	Anu	75			0.018315931	0.183159	
	MARKS 51	NORMAL DIS 1.8%	5.0%		NORMAL DIS		
			F 00/				
	51	1.8%	4.00/				
	55	3.0%	4.0%				
	57	3.5%	3.0%			-	
	64	4.5%				/	
	67	4.1%	2.0%			6	9
	70	3.3%	1.0%				
	70	3.3%					
	71	3.0%	0.0%	0	20 40	60	80
	75	1.8%			20 40	00	80

8. Calculation of cumulative distribution functions for Exponential and Normal distribution.

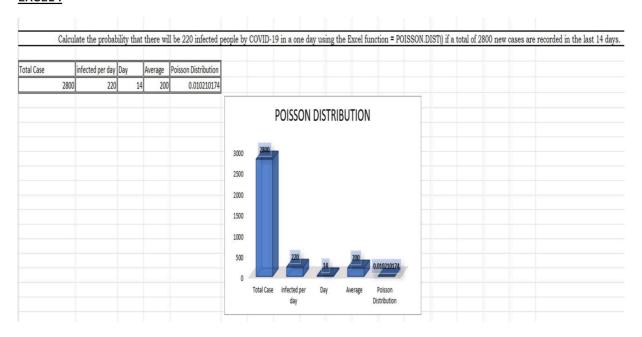


9. Application problems based on the Binomial distribution.

EXCEL:

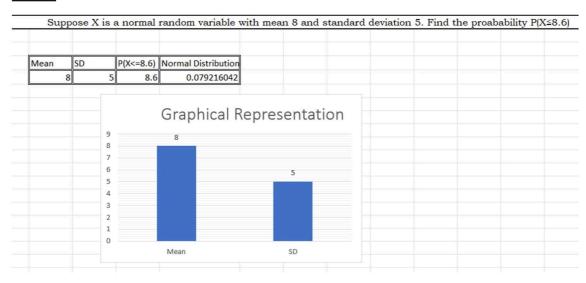


10. Application problems based on the Poisson distribution.

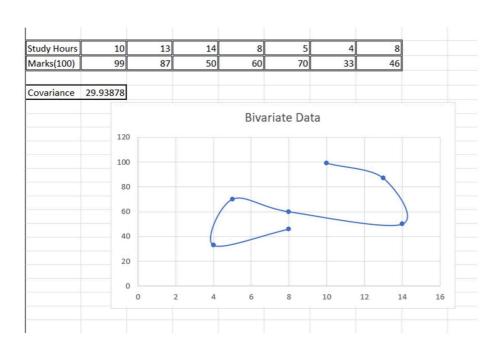


11. Application problems based on the Normal distribution.

EXCEL:



12. Presentation of bivariate data through scatter-plot diagrams and calculations of covariance.



13. Calculation of Karl Pearson's correlation coefficients.

EXCEL:

<	Y	x=X-mean	y=Y-mean	x^2	y^2	xy
92	7	48.4	2	2342.56	4	96.8
16	2	-27.6	-3	761.76	9	82.8
19	1	-24.6	-4	605.16	16	98.4
62	8	18.4	3	338.56	9	55.2
83	4	39.4	-1	1552.36	1	-39.4
47	2	3.4	-3	11.56	9	-10.2
15	7	-28.6	2	817.96	4	-57.2
36	8	-7.6	3	57.76	9	-22.8
26	4	-17.6	-1	309.76	1	17.6
40	7	-3.6	2	12.96	4	-7.2
43.6	5	0.00	0	6810.4	66	214
		r=	0.319195			
		r = Karl Pea	rson's corre	elation coe	fficient	
		Σχν				
	r=	$\frac{\Sigma xy}{\sqrt{\Sigma x^2 * \Sigma y}}$	=			

14. To find the correlation coefficient for a bivariate frequency distribution.

EXCEL:

x/y	2	4	6	8	fx	xfx	x^2fx
5	0	1	2	3	6	30	150
10	1	1	2	4	8	80	800
15	2	2	1	1	6	90	1350
20	3	2	0	0	5	100	2000
fy	6	6	5	8	25	300	4300
yfy	12	24	30	64	130		
y^2fy	24	96	180	512	812		
Mean (x)	12						
Mean (y)	5.2						
Covariance	-7.6		Correl	ation Coef	ficient	-0.61579	
SD (x)	5.291503				_		
SD (y)	2.332381						

15.Generating Random numbers from discrete (Bernoulli, Binomial, Poisson) distributions.

EXCEL:

Type of distribution	n Random Value		
		4	
Binomial Random	1		

16.Generating Random numbers from continuous (Uniform, Normal) distributions.

Type of distibution	Random Variable	
Binomial Random Variable	0.704764089	