Name : Aashish Moktan Roll No: 23081054

	Α	В	С	D	Е	F	G	Н	I	J
1		Α	В	С	D	E	F	G	Н	I
2	1	QSN1								
3	2		No of failure (x)	0	1	2	3	4	5	6
4	3		probability P(x)	0.18	0.28	0.25	0.18	0.06	0.04	0.01
5	4									
6	5									
7	6		Measure	Value		Formula				
8	7		E(X)	1.82	=SUMPRODUCT(D2:I3,D3:I4)					
9	8		$E(X^2)$	5.22	=SUMPRODUCT(D3:I3^2,D4:I4)					
10	9		Var(X)	1.9076	=C8-C7^2					
11	10		E(2X+3)	6.64	=2*C7+3					
12	11		Var(2X+3)	7.6304	=4*C9					
13	12									
14	13	QSN 2	Number of computers	0	100	200	300	400	500	
15	14		Probability	0.05	0.2	0.3	0.25	0.15	0.05	
16	15									
17	16		Probability	Value	Formula					
18	17	а	P(X=300)	0.25	=F14					
19	18	b	P(X = 400 or 500)	0.2	=G14+H14					
20	19	С	P(X≥300)	0.45	=F14+G14+H14					
21	20	d	E(X)	240	=SUMPRODUCT(C13:G13^2,C14:G14)					
	21		E(X2)	73000	=SUMPRODUCT(C13:H13^2,C14:H14)					
23	22		Var(X)	15400	=C27-C26^2					
24	23		Standard deviatio	124.0967365	=SQRT(C22)					
25	24									
26		QSN 3								
27	26	Outcome	102	105	108	111	114		Total	
	27	Frequency	10	20	45	15	20	15	125	
29 30	28	P(x)	0.08	0.16	0.36	0.12	0.16	0.12		
	29 30		M	\		Formula				
32	30		Measure	Value 100 44	=SUMPRODUCT(B26:G26,B28:G28)					
33			E(X)	109.44 11995.92	=SUMPRODUCT(B26:G26^2,B28:G28)					
33	32		E(X ²)		=C32-C31^2					
	33		Var(X)	18.8064						
35	34		E(2X+3)	221.88	=2*C31+3					
	35		Var(2X+3)	75.2256	=4*C33					
37 38	36		Cell	Foruml						
39	37		B28	=B27/\$H						
40	38 39		-							
40	39		H27	=SUM(B27:G27)					