

	A	B	C	D	E	F	G	H	I	J	K
1	Q.NO.1 c										
2	Mean Deviation, Standard Deviation, Coefficient of Standard Deviation, coefficient of variation, and										
3	Variance of following data.										
4	Class interval	0-10	10-20	20-30	30-40	40-50	50-60				
5	frequency	5	10	25	30	20	10				
6											
7	Class	f	LCB	UCB	m	cf	h	f*m ²	f*abs(m-mean)		
8	0-10	5	0	10	5	5	10	125	140		
9	10-20	10	10	20	15	15	10	2250	180		
10	20-30	25	20	30	25	40	10	15625	200		
11	30-40	30	30	40	35	70	10	36750	60		
12	40-50	20	40	50	45	90	10	40500	240		
13	50-60	10	50	60	55	100	10	30250	220		
14		100						125500	1040		
15									Cell	Formula	
16									B14	=SUM(
17									E8	=(D8-	
18									F9	=F8	
19									G8	=D8	
20									H8	=B8*	
21									H14	=SUM(
22											
23	Measure	Position	Formula		Value	Formula					
24	Mean				33	=SUMPRODUCT(B8:B13,E8:E13)/B14					
25	Median	50	=B14/2		33.33	=C11+(B25-F10)/B11*G11					
26	Mode	30	=MAX(B8:B13)		33.33	=C11+(B11-B10)/(2*B11-B10-B12)*G11					
27	Largest				60	=D13					
28	Smallest				0	=C8					
29	Range				60	=E27-E28					
30	Coef Range				1	=E29/(E27+E28)					
31	Q1	25	=B14/4		24	=C10+(B31-F9)/B10*G10					
32	Q3	75	=B31*3		42.5	=C12+(B32-F11)/B12*G12					
33	IQR				18.5	=E32-E31					
34	QD				9.25	=E33/2					
35	Coef QD				0.28	=E33/(E32+E31)					
36	MD				10.4	=I14/B14					
37	SD				12.88	=SQRT(H14/B14-E24^2)					
38	CV				39%	=E37/E24					
39	Variance				166	=F39 =E37^2					

Name : Aashish Moktan
Roll No: 23081054

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16	B8:B13)
17	-C8)/2
18	+B9
19	B-C8
20	E8^2
21	H8:H13)
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