Name : Aashish Moktan Roll No: 23081054

	Α	В	С	D	E	F	G	Н
1	Q.No.1(b)							
2		Values	20	30	40	50	60	70
3		Frequency	8	12	20	10	6	4
4								
5		solution						
6								
7		х	f	cf	f*abs(x-mean)	f*x^2	f*x	
8		20	8	8	168	3200	160	
9		30	12	20	132	10800	360	
10		40	20	40	20	32000	800	
11		50	10	50	90	25000	500	
12		60	6	56	114	21600	360	
13		70	4	60	116	19600	280	
14			60		640	112200	2460	
15								
16		Measure	Position	Formula	Value	Formula		
17		Mean			41	=SUMPRODUCT(G14/C14)		
18		Median	30.5	=(C14+1)/2	40	=B10		
19		Mode	20	=MAX(C8:C13)	40	=B10		
20		Largest			70	=MAX(B8:B13)		
21		Smallest			20	=MIN(B8:B13)		
22		Range			50	=E20-E21		
23		Coeff.Range			0.55555556	E22/(E20+	E21)	
24		Q1	15.25	=(C14+1)/4	30	=B9		
25		Q3	45.75	=C24*3	50	=B11		
26		IQR			20	=E25-E24		
27		QD			10	=E26/2		
28		Coef QD			0.25	=E26/(E24	+E25)	
29		MD			10.66666667	=E14/C14		
30		SD			13.74772708	=SQRT(F14/C14-E17^2)		
31		Coef of SD			0.335	=E30/E17		
32		CV			33.5%	=E30/E17		
33		Variance			189	=E30^2		