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GROUP A						
C -	f	x	fx	(x-x̄)	(x-x̄) ²	f(x-x̄) ²
7-5	0	5	0	-17.05	288.7025	0
6-10	7	8	56	-12.05	145.2025	1016.4175
11-15	10	13	130	-7.05	49.7025	497.025
16-20	2	18	36	-2.05	4.2025	8.405
21-25	5	23	115	2.95	8.7025	43.5125
26-30	9	28	252	7.95	63.2025	568.0125
31-35	1	33	33	12.95	167.7025	167.7025
	<u>64</u>	<u>33</u>	<u>642</u>			<u>1509.335</u>
						3353.835

$$i) \text{ Mean} = \frac{\sum fx}{\sum f} = \frac{642}{37} = 17.35$$

$$ii) \text{ Standard deviation} = \sqrt{\frac{\sum f(x-x̄)^2}{\sum f}}$$

$$= \sqrt{\frac{1509.335}{37}}$$

$$= \sqrt{40.7928}$$

$$= 6.3876$$

$$iii) \text{ Coefficient of variation} = \frac{SD \times 100}{\text{Mean}}$$

$$= \frac{6.3876 \times 100}{17.35}$$

$$= 368.51$$

2	C	F	2	f2	$(x-\bar{x})$	$(x-\bar{x})^2$	$f(x-\bar{x})^2$
	1-5	2	3	6	-17.4	299.76	347.712
	6-10	4	8	32	-12.4	147.76	301.544
	11-15	7	15	91	-7.4	52.76	250.952
	16-20	20	18	360	-2.4	4.976	91.632
	21-25	16	23	368	2.6	6.76	130.976
	26-30	10	28	280	7.6	61.76	617.76
	31-35	4	33	132	12.6	165.36	661.512
			Σf_2	124			3035.744
		CF = 63					

$$\text{① Mean} = \frac{1244}{63} = 20.4$$

$$\text{② Standard deviation} = \sqrt{\frac{\sum f(x-\bar{x})^2}{n}}$$

$$= \sqrt{\frac{3035.744}{63}}$$

$$= \sqrt{48.1934}$$

$$= 6.94$$

$$\text{③ Coefficient of variation} = \frac{\text{SD}}{\text{Mean}} = \frac{6.94}{20.4} \times 100$$

$$= 34.06\%$$

3. Since B has a less variable distribution