

NAME OF STUDENT: AKOMOLEDE MATTHEW GRENDA

DEPARTMENT: PETROLEUM ENGINEERING

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"C.I"	(x) Group A	(y) Group B	$ x - \bar{x} $	$ x - \bar{x} ^2$	$ y - \bar{y} $	$ y - \bar{y} ^2$
1-5	0	2	-4.1	16.81	-7	49
6-10	2	4	2.9	8.41	-5	25
11-15	10	7	5.9	34.81	-2	4
16-20	2	20	-2.1	4.41	11	121
21-25	1	16	-3.1	9.61	7	49
26-30	5	10	0.9	0.81	1	1
31-35	4	4	-0.1	0.01	-5	25
	29	63		74.87		294

$$(i) \text{ Mean of A} = \frac{\sum x}{N} = \frac{29}{7} = 4.14$$

$$\text{Mean of B} = \frac{\sum y}{N} = \frac{63}{7} = 9$$

$$\text{Standard deviation of A} = \sqrt{\frac{\sum (x - \bar{x})^2}{N}} = \sqrt{\frac{74.87}{7}} = 3.27$$

$$\text{Standard deviation of B} = \sqrt{\frac{\sum (y - \bar{y})^2}{N}} = \sqrt{\frac{294}{7}} = 6.27$$

$$(ii) \text{ Coefficient of variation } CV = \frac{S.D}{\bar{x}} \times 100\%$$

$$CV = \frac{3.27}{4.1} \times 100\%$$

$$CV \text{ of A} = 79.76\%$$

$$\text{Coefficient of variation } CV \text{ of B} = \frac{6.27}{9} \times 100\%$$

$$CV \text{ of B} = 69.67\%$$

3) Group B have less variable distribution