Or. Witam Kumar SRAP College, Barachakia 8210561032 Subject:-Business Math

Topic:Measures of
Dispersions



N - (EfX)2 तिम्न समंकों का मूल्य वर्ग रीति से प्रमाप विचलन तथा गुणांक जात करें : alculate standard deviation and its co-efficient of following data by Squares Method: वर्ग विधि से S.D. तथा इसके गुणांक की गणना (Calculation of S.D. and its Co-efficient = res Method): $\Sigma X = 650, N = \Xi$ $\Sigma X^2 = 56350$ माध्य $(\overline{X}) = \frac{\Sigma X}{N} = \frac{650}{8} = 81.25$

मध्य
$$(\overline{X}) = \frac{\Sigma X}{N} = \frac{650}{8} = 81.25$$

$$S.D. = \sqrt{\frac{\Sigma X^2}{N} - \left(\frac{\Sigma X}{N}\right)^2}$$

$$=\sqrt{\frac{56350}{8} - \left(\frac{650}{8}\right)^2} = \sqrt{7043.75 - 6602.56} = 21.00$$

$$S.D. = \frac{1}{N} \sqrt{\Sigma X^2 . N - (\Sigma X)^2}$$

$$= \frac{1}{8} \sqrt{56350 \times 8 - (650)^2}$$

$$= \frac{1}{8} \sqrt{450800 - 422500}$$

$$= \frac{1}{8} \sqrt{28300} = \frac{1}{8} \times 168.23 = 21.00$$

(3)
$$S.D.$$
 का गुणांक $=\frac{S.D.}{\overline{X}}$

(1)

(2)

$$=\frac{21}{25.05}=0.2585$$