

Mean deviation:-

$$= \frac{\sum |x - \bar{x}|}{n}$$

$$= \frac{287.9}{20}$$

$$= 14.395 \text{ Ans}$$

Variance:-

$$\sigma^2 = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n}$$

$$= \frac{5148.95}{20}$$

$$= 257.4475 \text{ Ans}$$

Standard deviation:-

$$\sigma = \sqrt{\sum_{i=1}^n (x_i - \bar{x})^2}$$

$$= \sqrt{\frac{5148.95}{20}}$$

$$= \sqrt{257.4475}$$

$$= 16.045171$$

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