

Standard deviation of discrete frequency distribution [or Continuous frequency distribution]

SD \rightarrow

$$\text{Standard deviation } \sigma = \sqrt{\frac{1}{N} \sum_{i=1}^n f_i (x_i - \bar{x})^2}$$

OR

$$\text{SD } \sigma = \frac{1}{N} \sqrt{N \sum f_i x_i^2 - (\sum f_i x_i)^2}$$

- ⑦ Find the variance of the following data
6, 8, 10, 12, 14, 16, 18, 20, 22, 24

$$\bar{x} = \frac{\sum x_i}{n}$$

$$= \frac{6+8+10+12+14+16+18+20+22+24}{10}$$

$$= \frac{150}{10}$$

$$= 15$$

x_i	$x_i - \bar{x}$	$(x_i - \bar{x})^2$
6	-9	81
8	-7	49
10	-5	25
12	-3	9
14	-1	1
16	1	1
18	3	9
20	5	25
22	7	49
24	9	81

$$\sum (x_i - \bar{x})^2 = 330$$

Variance

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

$$= \frac{1}{10} \times 330$$

$$= 33$$

- ⑧ Find the mean and variance of first 'n' natural numbers

Consider the observations 1, 2, 3, 4, ..., n

$$\text{Mean } \bar{x} = \frac{\sum x_i}{n}$$

$$= \frac{1+2+3+\dots+n}{n}$$

$$= \frac{n(n+1)}{2n} = \frac{n+1}{2}$$

$$\bar{x} = \frac{n+1}{2}$$

Sum of first 'n' natural numbers
 $1+2+3+\dots+n$
 $= \frac{n(n+1)}{2}$

Portlethen National 5 Maths Notes

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Portlethen National 5 Maths Notes:

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