National Institute of Open Schooling (NIOS) Senior Secondary Course Lesson - 17: Measures of Dispersions

Lesson – 17: Measures of Dispersions Worksheet -17

1. In a Mathematics test, 10 students secured marks as:

Find the mean deviation about the median.

2. Find the mean deviation about the mean of following data

x_i	10	31	50	70	90
f_i	5	25	28	16	6

3. Players height in a tournament as:

Height in cm	90-100	100-110	110-120	120-130	130-140
Number of players	10	20	15	25	30

Find the mean deviation about the mean.

4. Find out the mean deviation about the median of following data as:

- 5. If N = 10, $\bar{x} = 12$, $\sum x_i^2 = 1530$, then find out the co-efficient of variation.
- **6.** The mean and standard deviation of Six observations are 8 and 4 respectively. If each observation is multiplied by 3, find the new mean and new standard deviation of resulting observation.
- **7.** The standard deviation of some temperature data in degree centigrade is 6. If the data is to be converted in to Faranite scale, find the variance.
- **8.** Mean of 10 items is 15. If an observation 27 is replaced with 72, find out the new mean.
- **9.** The smallest value of a collection of data is 12 and the range is 56. Find the largest value of the collection of data.
- **10.** Find out the standard deviation of first 20 natural numbers.