**Mean Deviation**

Mean deviation is a measure of dispersion

Mean Deviation = sum of deviations from the mean

Total number of values

Example:

1 4 5 6 8 8 9 11

**Step 1** – Calculate the mean

1 + 4 + 5 + 6 + 8 + 8 + 9 + 11 = 52 = 6.5

8 8

**Step 2** – Calculate the deviation from the mean using absolute values (positive no matter what)

|  |  |  |
| --- | --- | --- |
| Value | Mean | Deviation |
| 1 | 6.5 | |1 – 6.5| = 5.5 |
| 4 | 6.5 | |4 – 6.5| = 2.5 |
| 5 | 6.5 | |5 – 6.5| = 1.5  **Step 3** – Calculate the mean deviation  20 ÷ 8 = 2.5  Mean Deviation is 2.5 |
| 6 | 6.5 | |6 – 6.5| = 0.5 |
| 8 | 6.5 | |8 – 6.5| = 1.5 |
| 8 | 6.5 | |8 – 6.5| = 1.5 |
| 9 | 6.5 | |9 – 6.5| = 2.5 |
| 11 | 6.5 | |11 – 6.5| = 4.5 |
|  |  | Total = 20 |

**Example:**

MATH MARKS

The following are the math marks of the class of 21 people. Find the mean deviation, USING A TABLE!

52 60 60 61 65 68 70 70 70 71 71 74 74

75 76 77 79 83 85 88 91