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Example 3

Calculate the mean deviation of the following values; 2, 4, 7, 8 and 9.

The A.M. =
$$\frac{\sum X}{n} = 6$$

X	ldl
2	4
4	2
7	1
8	2
9	3
	12

$$M.D._{(x)} = \frac{12}{5} = 2.4$$

Mean Deviation from median for ungrouped data.

Method Using the values in Example 3, M.D. from the Median can be calculated as follows,

(i) Calculate the median which is 7.

- (ii) Calculate the absolute deviations from median, denote them as |d|.
- (iii) Find the average of these absolute deviations. It is the Mean Deviation.

X	d= X-MEDIAN
2	5
4	3
7	0
8	1
9	2
-	11

M. D. from Median is thus,

M.D._(Median) =
$$\frac{\sum |d|}{n} = \frac{11}{5} = 2.2$$