MEAN ABSOLUTE DEVIATION

How do you find the mean absolute deviation (MAD) of a data set?

Mean Absolute Deviation (MAD)

The mean absolute deviation of a numerical data set
Is the average deviation of the data from the mean.

Step 1:	Step 2:	Step 3:	Step 4:
Find the Mean	Subtract Data - Mean	Absolute Value	Find the Mean Again!

1. The numbers below are the final scores for the UGA football team in 2012. Find the mean absolute deviation of the data.

45, ~~41, 56, 48, 51, 7, 29, 17,~~ 37, 38, 45, 42,

$\bar{X} = 38$ STEP 1

7, 3, 18, 10, 13, 31, 9, 21, 1, 0, 7, 4

Subtract the data and mean (keep all as absolute value!)

FIND THE MEAN AGAIN = $\boxed{10.3 = \text{m.A.D}}$

(AVERAGE) MOST OF THE DATA (SCORES) ARE 10 POINTS AWAY FROM 38

2. The numbers below are the total points for the Sprayberry basketball team in its last 10 games. Find the mean absolute deviation.

72, 75, 73, 99, 68, 79, 48, 60, 52, 59 $\bar{X} = 68.5$

3.5, 6.5, 4.5, 30.5, .5, 10.5, 20.5, 8.5, 16.5, 9.5

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m.A.D = 11.1