Finding the M.A.D. (mean absolute deviation)

① Find the mean ($\bar{x}$) of the data set

Ex: 15, 17, 23, 19 $\quad \bar{x} = \frac{74}{4} = 18.5$

② Find the absolute value of the difference between each data point and the mean.

Ex: $|15 - 18.5| = 3.5$

$|17 - 18.5| = 1.5$

$|23 - 18.5| = 4.5$

$|19 - 18.5| = 0.5$

* Absolute Value → distance from 0 and distance cannot be negative So your answer must be positive!

③ Find the mean of your answers from step 2

Ex: $\frac{3.5 + 1.5 + 4.5 + 0.5}{4} = \frac{10}{4} = 2.5$

#2 Data: 98, 96, 86, 95, 94, 92

Step 1: $\bar{x} = 93.5$

Step 2: $|98 - 93.5| = 4.5$

$|96 - 93.5| = 2.5$

$|86 - 93.5| = 7.5$

$|95 - 93.5| = 1.5$

$|94 - 93.5| = 0.5$

$|92 - 93.5| = 1.5$

Step 3: M.A.D. = 3