How the mean, median and standard deviation are calculated for the Happiness Alliance's Happiness Index:

Standard Deviation Calculation:

$$\sigma = \sqrt{\frac{\sum(x - \overline{x})^2}{N}}$$

where
$\sigma = the\ standard\ deviation$
$x = each\ value\ in\ the\ population$
$\overline{x} = the\ mean\ of\ the\ values$

Median Calculation:

100, 70, 50, 60, 10, 30, 80, 40, 20, 10, 90, 20, 10, 40, 90.

When we put those numbers in order we have:

10, 10, 10, 20, 20, 30, 40, 40, 50, 60, 70, 80, 90, 90, 100.

There are fifteen numbers. Our middle is the eighth number.

The median value of this set of numbers is 40.

Mean Calculation:

Mean of these numbers:
60, 10, 50.

Add the numbers: 60 + 10 + 50 = 140.

Divide by how many numbers (there are 3 numbers): 120 / 3 = 40.

The Mean is 40.