

## Revision Worksheet

### Mean, Median, Mode, Standard deviation, Quartiles and Box plots

- Find the **mean** , **median**, **mode**, **range** and **Standard deviation** of the following set:-
  - 2, 3, 4, 5, 6, 7, 8, 8, 9
  - 3,5,2,9,1,8,2
  - 6.5, 4.7, 10.2, 9.1, 8.8, 12.0, 7.5
  - 115, 130, 122, 129, 130, 133, 136

- Two men were playing a 'friendly' game of darts.  
The scores, for each of their first six darts, are shown below.

John	18	22	17	20	15	16
Mark	3	38	6	30	1	30

- Show that both men scored the same mean.
  - By drawing up 2 separate tables, Calculate the Standard deviation of both men's scores.
  - Comment on what the two different standard deviations tell you about the men's scores.
- Find the lower quartile, the middle quartile (the median), the upper quartile and then draw a neat box plots to represent the values for each of these:-
    - 13, 13, 15, 16, 21, 23, 24, 28, 29
    - 3.2, 3.5, 3.6, 3.8, 3.8, 4.0, 4.4, 4.4, 4.7, 5.3, 5.4, 5.9.
    - 34, 31, 25, 35, 35, 23, 23, 40, 37, 27, 21, 29, 39.
  - On a field trip, Marry collects 7 worms and measures their lengths.  
6.5 cm , 4.7 cm, 10.2 cm, 9.1 cm , 8.8 cm, 12.0 cm, 7.5 cm.  
Calculate the Standard deviation.