

Determining mean, median, mode and range of a data set

1. The ages of the players in a local football team are given below:

19 23 30 24 19 25 31 27 28 30 19

Calculate the mean, median, mode and range for the above data.

[7]

$$\text{Mean} = 25 \quad \text{Median} = 25 \quad \text{Range} = 12$$

2. The weights, in kilograms, of 20 new-born babies are shown below.

2.8 3.4 2.8 3.1 3.0 4.0 3.5 3.8 3.9 2.9
2.7 3.6 2.5 3.3 3.5 4.1 3.6 3.4 3.2 3.4

Find the (a) mean = 3.325 (b) median = 3.4
(c) mode = 3.4 (d) range = 1.6

[2, 2, 1, 2]

3. The weekly takings in small store, to the nearest £, for a week in December and March are shown below

December	2131	2893	2429	3519	4096	4810
March	1727	2148	1825	2397	2901	3114

- (a) Calculate the mean takings for December and March.

[4]

$$\text{December} = \pounds 3313 \quad \text{March} = \pounds 2352$$

- (b) Give a reason for the difference in the answers in part (a).

[1]

closer to christmas so people spend more in December.

4. A footballer scored the following numbers of goals for 9 matches.

1 0 3 3 2 4 1 4 3

After his tenth match his mean score was 2.6 goals per match.

How many goals did he score in the tenth match?

[3]

$$1 + 0 + 3 + 3 + 2 + 4 + 1 + 4 + 3 + x = 26 \quad \text{[22 marks]}$$

$$\underline{\underline{x = 5}}$$