Guide to: Averages

maths Links

Explanation:

Memorise the four summary statistics: **Mode** = most common value; **Median** = middle value after putting the list in **order from smallest to largest**; **Mean** = Total of values ÷ Number of values; and **Range** = Biggest − Smallest (range measures spread, not average).

If there is an even number of values, there are two numbers in the middle — add those two middle numbers together and divide by 2 to find the median.

Example 1: Find the mode, median, mean, and range of:

8, 3, 5, 9, 3, 10, 4

Solution:

Order first: 3, 3, 4, **5**, 8, 9, 10 (7 values)

- **Mode: 3** (appears twice)
- **Median: 5** (4th value)
- **Mean:** 42 ÷ 7 = **6**
- **Range:** 10 − 3 = **7**

Example 2: Find the median, mean, and range of:

12, 7, 15, 9, 18, 11

Solution:

Order first: 7, 9, **11, 12**, 15, 18 (6 values)

- **Median:** Halfway between 11 & 12 = $\frac{11 + 12}{2}$ = **11.5**
- **Mean:** 72 ÷ 6 = **12**
- **Range:** 18 − 7 = **11**

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