Year 8 Mathematics Learning Journey: Unit 19 – Measures of Location

Step 6: Compare distributions

Dora and Jack do a spelling test every week. The table summarises their performances over a term.
Dora says: "*I'm better than Jack at spelling, as both my mean and range are higher.*" Do you agree? Why or why not?

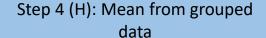|	Dora	Jack
Mean	7.5	7.4
Range	6	2

Step 5: Identify outliers

How do you decide which values are outliers?

Step 3 (H): Mean from a frequency table

Find the mean number of goals scored from the table.

Number of goals	Frequency
0	9
1	6
2	5
3	2
4	3

Step 4 (H): Mean from grouped data

Find an estimate of the mean time taken for 40 students to complete the test.

Time	$40 < w \le 50$	$50 < w \le 60$	$60 < w \le 70$	$70 < w \le 90$
Frequency	6	12	18	4

Step 2: Choose an appropriate average

Does the mean of this set of data give a fair representation? Would any of the other averages be better?
5, 35, 35, 37, 38, 39, 40

Step 1: Mean, median and mode

If you know the mean set of numbers, how can you find the total?

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