Data centres: weights, ordering and choosing a summary

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Name: _____ Class: _____ Date: _____

Worked example 1

Use the given values and weights to find the weighted mean. State the total weight.

Value	Frequency / weight
60	1
80	3

Use the stated conditions and the labelled scales.

Guided attempt 2

Find the median of $\{1, 2, 2, 5\}$. Show the relevant ordering or calculation.

1. Ordered data: $1, 2, 2, 5$; number of values = ____.
2. The central positions are ____ and ____; their values are ____ and ____.
3. Median = $\frac{\square+\square}{2} = \square$.

Prerequisite 3

Find the mean of $\{2, 4, 6\}$. Show the relevant ordering or calculation.

Prerequisite 4

Find the median of $\{5, 1, 3\}$. Show the relevant ordering or calculation.

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Independent practice 5

The table shows marks and their frequencies. Find the mean mark and the number of learners.

Value	Frequency / weight
60	1
80	2
100	1

Use the stated conditions and the labelled scales.

Independent practice 6

Find the mode or modes of $\{2, 3, 3, 4, 4\}$. Show the relevant ordering or calculation.

Independent practice 7

Travel times are 1,2,3,4,100 minutes. Calculate the mean and median; recommend a typical-time summary while still reporting the long journey.

Independent practice 8

Only the grouped counts are known. Use group midpoints to estimate the mean, and explain why the answer is not necessarily the exact raw-data mean.

Group (lower inclusive, upper exclusive)	Frequency
[10,20)	2
[20,30)	4
[30,40)	2

Use the stated conditions and the labelled scales.

Exit question 9

Find the mode or modes of $\{3, 1, 3, 5\}$. Show the relevant ordering or calculation.

Exit question 10

Find the median of $\{2, 6, 8, 10\}$. Show the relevant ordering or calculation.