



Aberdare Community School
Mathematics Department

WJEC GCSE

Higher – Non Calculator

Data

Averages - estimate mean

Name:

Set:

Date:

Teacher:

8. In a particular street of 50 houses, a survey of the number of pets in each house was carried out. The following frequency distribution was obtained.

Number of pets per house	Number of houses
0	15
1	13
2	10
3	8
4	2
5	2

Calculate the mean number of pets per house.

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[3]

7. (a) The lengths of 100 fish caught in a canal were recorded. The results are summarized in the table below.

Length, l cm	Frequency
$0 < l \leq 8$	25
$8 < l \leq 16$	60
$16 < l \leq 24$	15

Find an estimate for the mean length of these fish.

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[3]

5. (a) In Raytown the mean monthly rainfall for 6 months was 28.5 mm. If it had rained 5 mm more each month, what would the mean monthly rainfall have been?

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[1]

- (b) In Tedport the rainfall, to the nearest 5 mm, for each of 6 months was measured. The results are summarised in the table below.

Monthly rainfall in mm (to the nearest 5 mm)	Number of months
30	3
35	2
80	1

- (i) Find an estimate for the mean monthly rainfall for the 6 months.

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- (ii) State the modal class and an estimate for the median rainfall for the 6 months.

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Modal class mm Median mm

- (iii) Which of the averages mean, median or mode would you choose to describe the rainfall for the 6 months? Give a reason for your choice.

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