



EXAM PAPERS PRACTICE

Grouped Data

Question Paper

Question 1



In a traffic survey of 125 cars the number of people in each car was recorded.

Number of people in each car	1	2	3	4	5
Frequency	50	40	10	20	5

Find

(a) the range, [1]

(b) the median, [1]

(c) the mode. [1]

Question 2



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The table shows information about the numbers of pets owned by 24 students.

Number of pets	0	1	2	3	4	5	6
Frequency	1	2	3	5	7	3	3

(a) Calculate the mean number of pets.

[3]

(b) Jennifer joins the group of 24 students.

When the information for Jennifer is added to the table, the new mean is 3.44 .

Calculate the number of pets that Jennifer has.

[3]

Question 3



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The heights, in metres, of 200 trees in a park are measured.

Height (h m)	$2 < h \leq 6$	$6 < h \leq 10$	$10 < h \leq 13$	$13 < h \leq 17$	$17 < h \leq 19$	$19 < h \leq 20$
Frequency	23	47	45	38	32	15

(a) Find the interval which contains the median height. [1]

(b) Calculate an estimate of the mean height. [4]

(c) Complete the cumulative frequency table for the information given in the table above. [2]

Height (h m)	$2 < h \leq 6$	$h \leq 10$	$h \leq 13$	$h \leq 17$	$h \leq 19$	$h \leq 20$
Cumulative frequency	23					

Question 4



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James is an animal doctor.

The table shows some information about the cats he saw in one week.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Number of cats seen	2	4	1		2
Mean mass of a cat (kg)	1.9	0.9	2.1	1.8	2

One of the cats James saw had a mass of 4kg.

On which day did he see this cat?

[2]

Question 5



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Height (h cm)	$0 < h \leq 10$	$10 < h \leq 15$	$15 < h \leq 30$
Frequency	25	u	9
Frequency density	2.5	4.8	v

The table shows information about the heights of some flowers.

Calculate the values of u and v .

[2]