

DO NOT WRITE IN THIS AREA

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- 8** Aalia delivers letters and parcels.

- (a) Last week Aalia worked for 5 days and wrote down 5 integers that represent the distance, in miles, she drove each day.

For these integers

the mode is 15
the median is 16
the largest – the smallest = 7

Find 5 integers that Aalia could have written down.

(3)

- (b) Aalia has 8 letters to deliver to Tom.

The mean weight of the 8 letters is 104 grams.

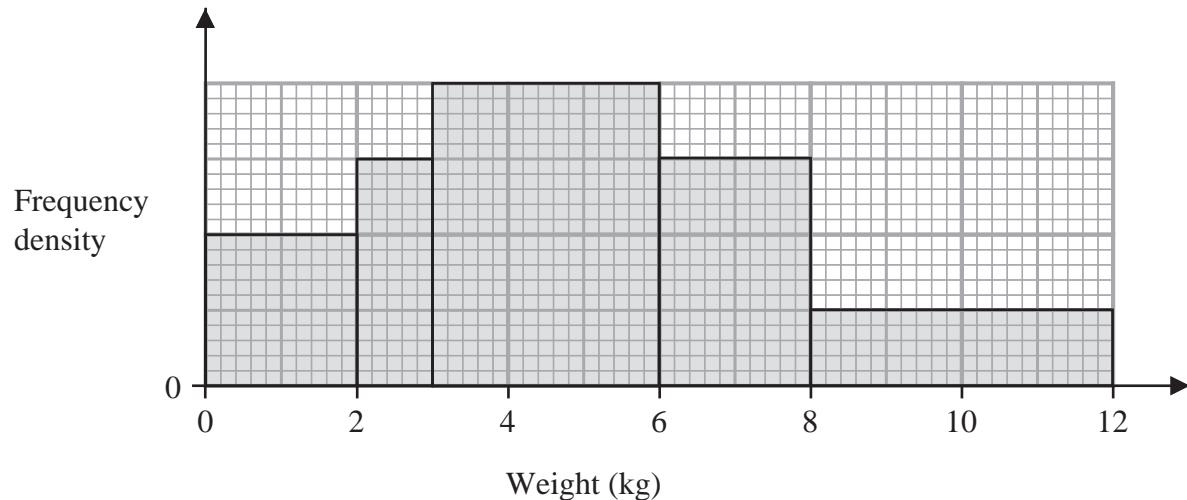
5 of the letters are each of weight 89 grams.

The mean weight of the remaining letters is A grams.

Work out the value of A

(3)

The histogram shows information about the weights of all the parcels Aalia has in her delivery van on Friday.



75 of the parcels in the van each have a weight between 2 kg and 6 kg.

Aalia takes 2 parcels at random from the van.

- (c) Find an estimate for the probability that both parcels weigh more than 4 kg.

(5)



Question 8 continued

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P 7 3 4 9 7 A 0 1 9 3 2

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(Total for Question 8 is 11 marks)

