5 The table shows information about the mass, m grams, of each of 120 letters.

Mass (m grams)	$0 < m \leqslant 50$	$50 < m \leqslant 100$	$100 < m \leqslant 200$	$200 < m \leqslant 500$
Frequency	43	31	25	21

(a)	Calculate	an estimate	of the	mean	mass
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		g	[4]
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(b) Iraj draws a histogram to show this information. He makes the height of the first bar 17.2 cm.

Calculate the height of each of the remaining bars.

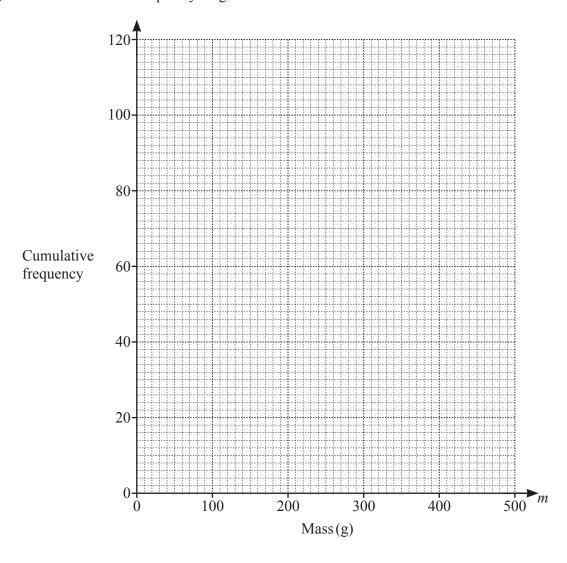
(c) Complete the cumulative frequency table.

Mass (m grams)	<i>m</i> ≤ 50	<i>m</i> ≤ 100	<i>m</i> ≤ 200	<i>m</i> ≤ 500
Cumulative frequency				

[2]

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(d) Draw a cumulative frequency diagram.



(e) Use the cumulative frequency diagram to find an estimate for

(i) the median,

..... g [1]

[3]

(ii) the upper quartile,

..... g [1]

(iii) the 40th percentile,

..... g [2]

(iv) the number of letters with a mass m where $250 < m \le 400$.

[2]