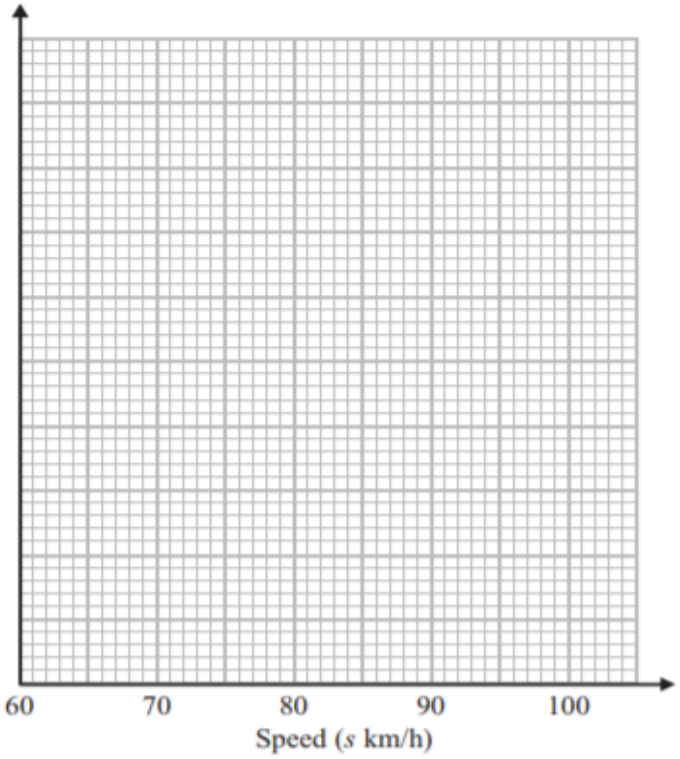
Histogram Past Paper Questions GCSE Edexcel – Non-Calculator

1.

The table gives some information about the speeds, in km/h, of 100 cars.

Speed (s km/h)	Frequency
$60 < s \leqslant 65$	15
$65 < s \leqslant 70$	25
$70 < s \leqslant 80$	36
$80 < s \leqslant 100$	24

(a) On the grid, draw a histogram for the information in the table.



(3)

(b) Work out an estimate for the number of cars with a speed of more than 85 km/h.

.....

(2)

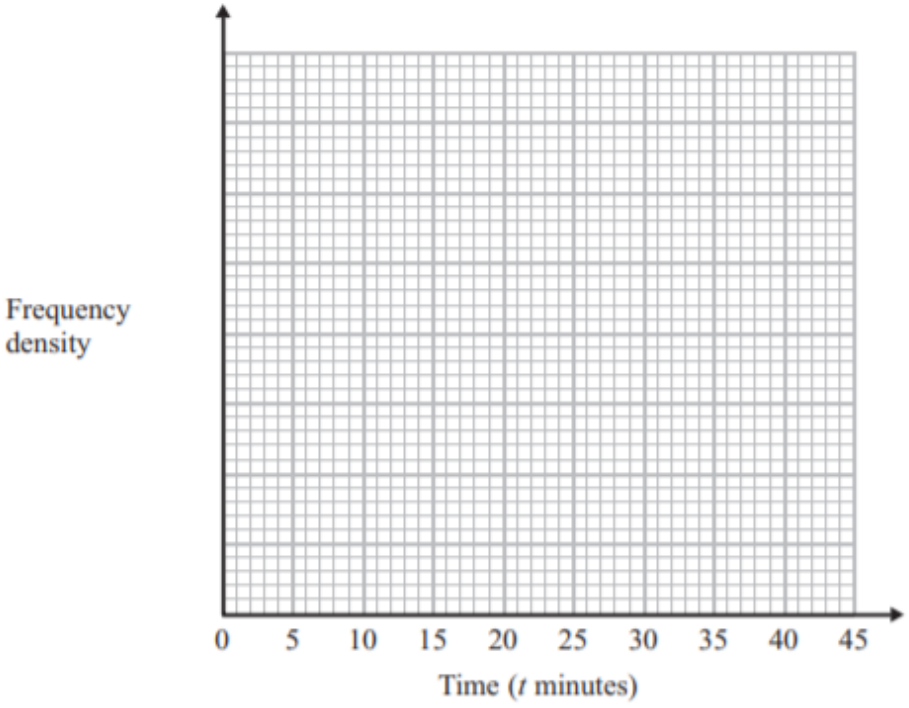
2.

Bill works for a computer service centre.

The table shows some information about the length of time, t minutes, of the phone calls Bill had.

Time (t minutes)	$0 < t \leqslant 10$	$10 < t \leqslant 15$	$15 < t \leqslant 20$	$20 < t \leqslant 30$	$30 < t \leqslant 45$
Number of calls	12	15	13	18	3

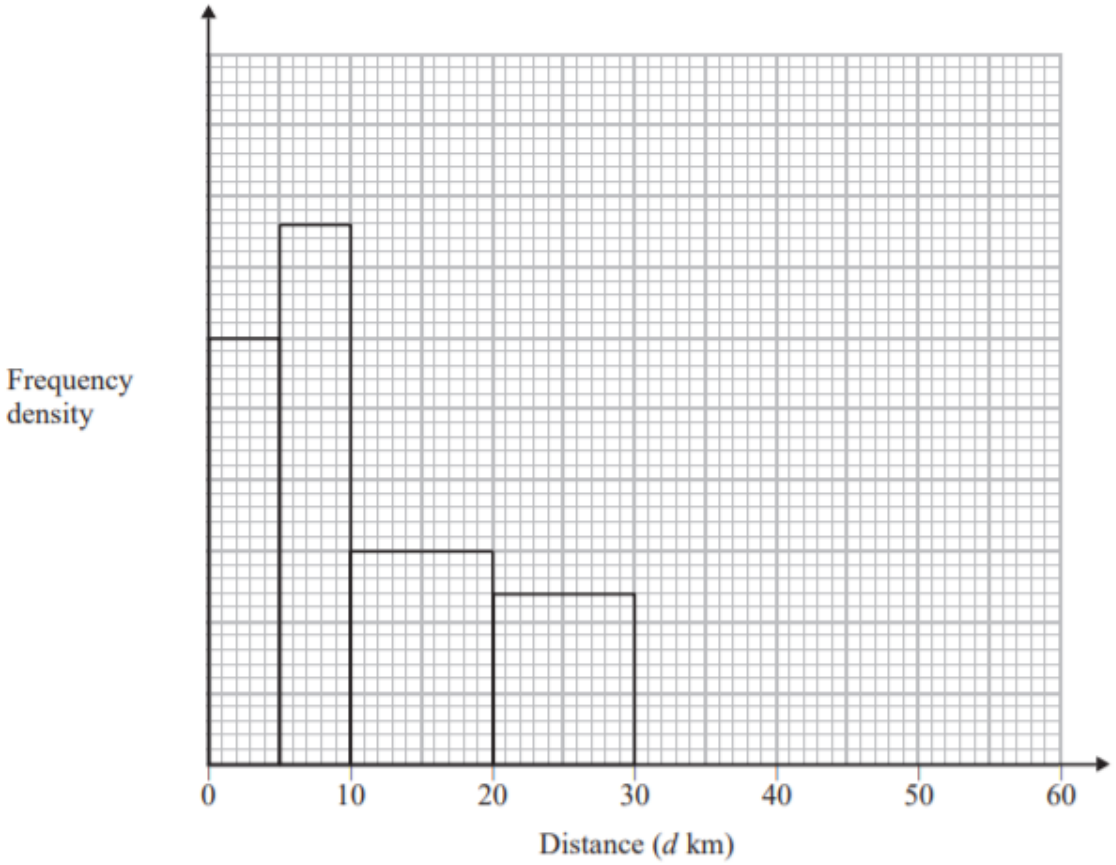
On the grid, draw a histogram to show this information.



(Total for Question 2 is 3 marks)

3.

The incomplete histogram and table give some information about the distances some people travel to work.



(i) Use the information in the histogram to complete the frequency table.

Distance (d km)	Frequency
$0 < d \leqslant 5$	30
$5 < d \leqslant 10$	
$10 < d \leqslant 20$	
$20 < d \leqslant 30$	24
$30 < d \leqslant 50$	16

(ii) Use the information in the table to complete the histogram.

(Total for Question 23 is 3 marks)

4

The table gives some information about the lengths of time, in hours, that some adults watched TV last week.

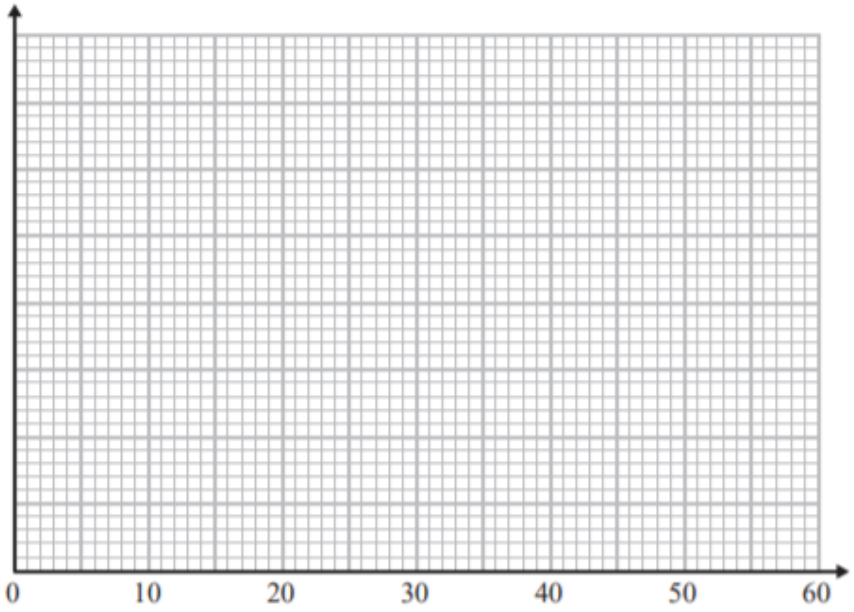
Length of time (t hours)	Frequency
$0 \leqslant t < 10$	8
$10 \leqslant t < 15$	15
$15 \leqslant t < 20$	11
$20 \leqslant t < 30$	10
$30 \leqslant t < 50$	6

(a) Work out an estimate for the mean length of time.

..... hours

(4)

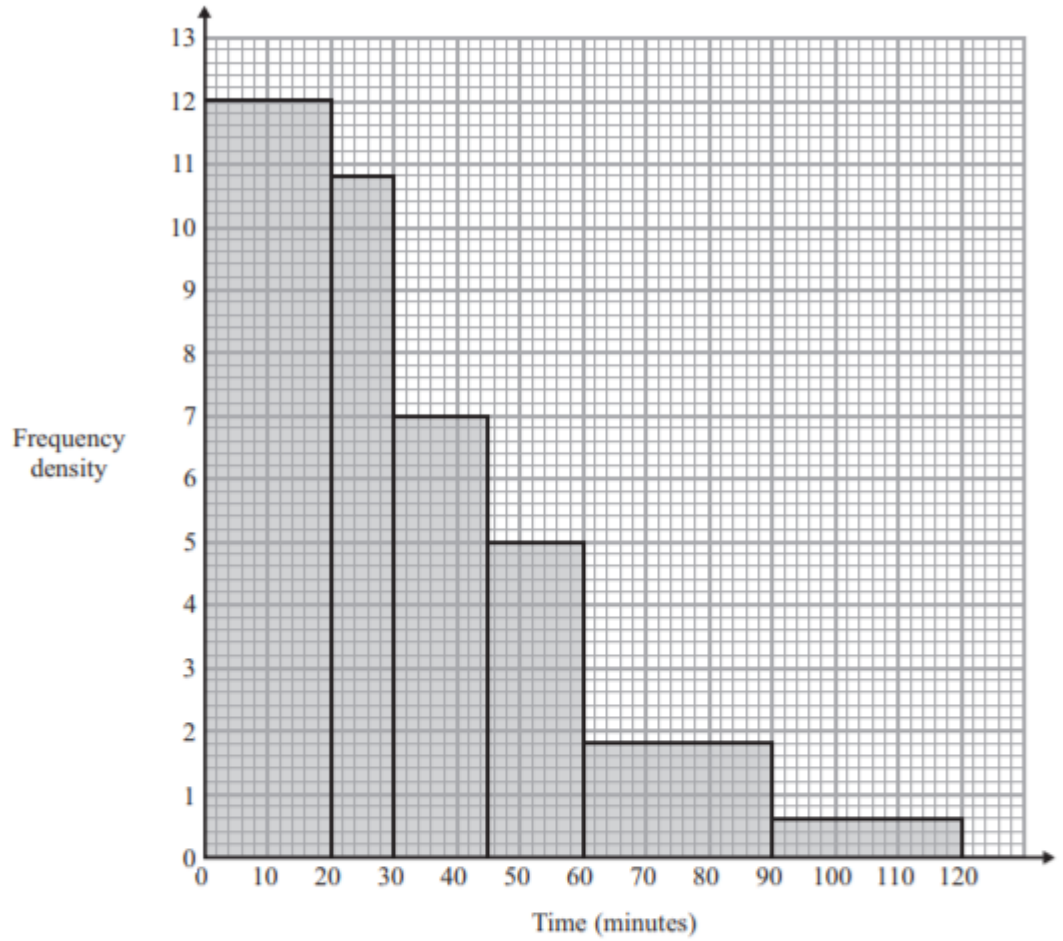
(b) Draw a histogram for the information in the table.



(3)

5.

The histogram shows information about the times, in minutes, that some passengers had to wait at an airport.



Work out the percentage of the passengers who had to wait for more than one hour.

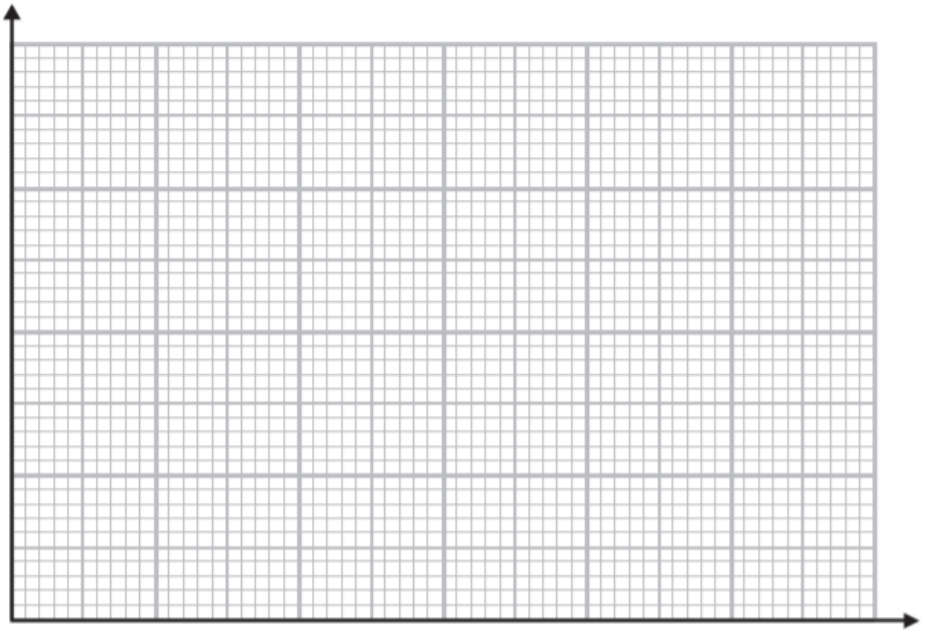
(Total for Question . is 3 marks)

6.

The table gives information about the heights, h metres, of trees in a wood.

Height (h metres)	Frequency
$0 < h \leqslant 2$	7
$2 < h \leqslant 4$	14
$4 < h \leqslant 8$	18
$8 < h \leqslant 16$	24
$16 < h \leqslant 20$	10

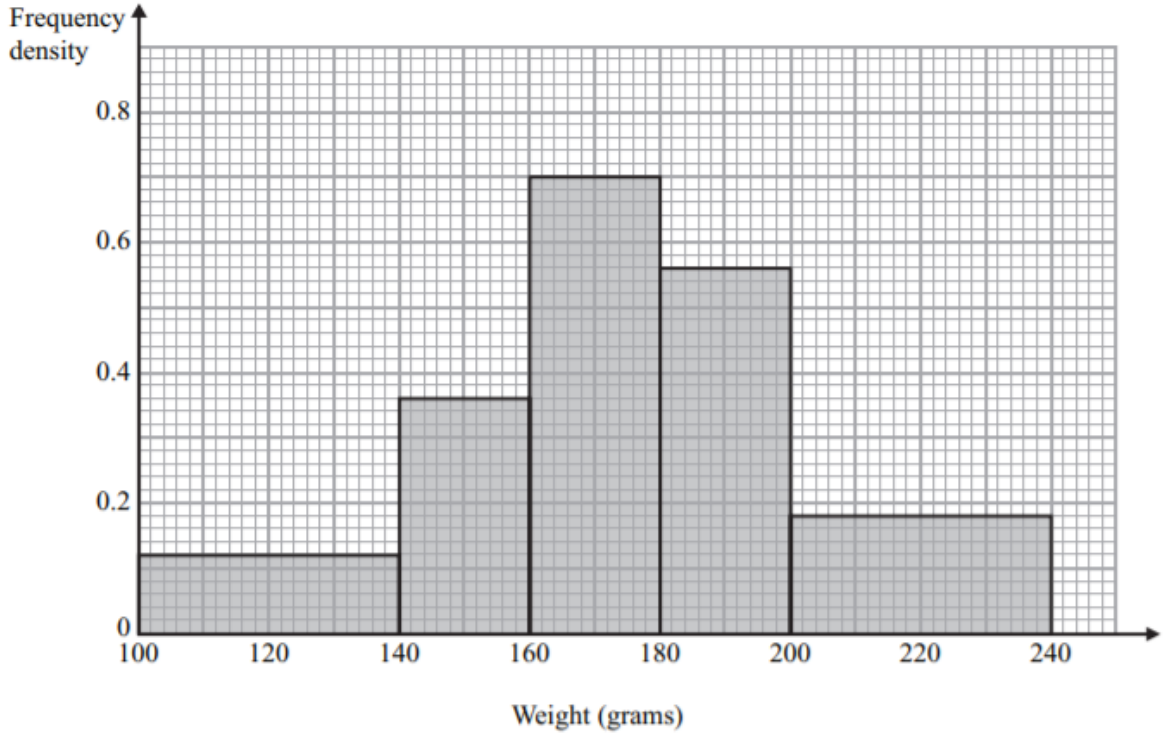
Draw a histogram to show this information.



(Total for Question 6 is 3 marks)

7.

21 The histogram shows some information about the weights of a sample of apples.

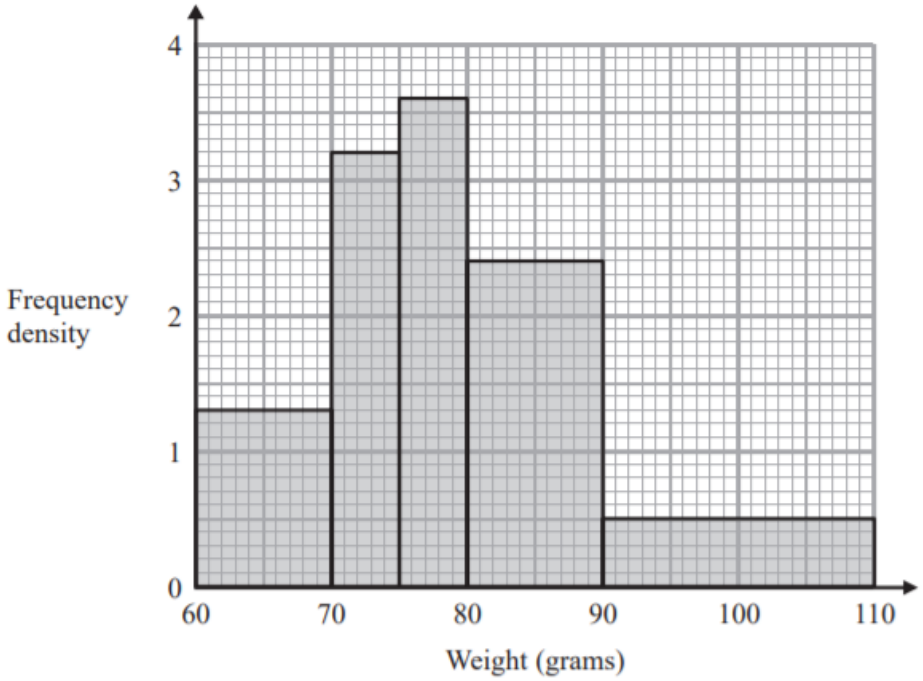


Work out the proportion of apples in the sample with a weight between 140 grams and 200 grams.

(Total for Question 21 is 4 marks)

8.

The histogram shows information about the weights, in grams, of some plums.



Work out an estimate for the proportion of these plums with a weight of less than 100 grams.

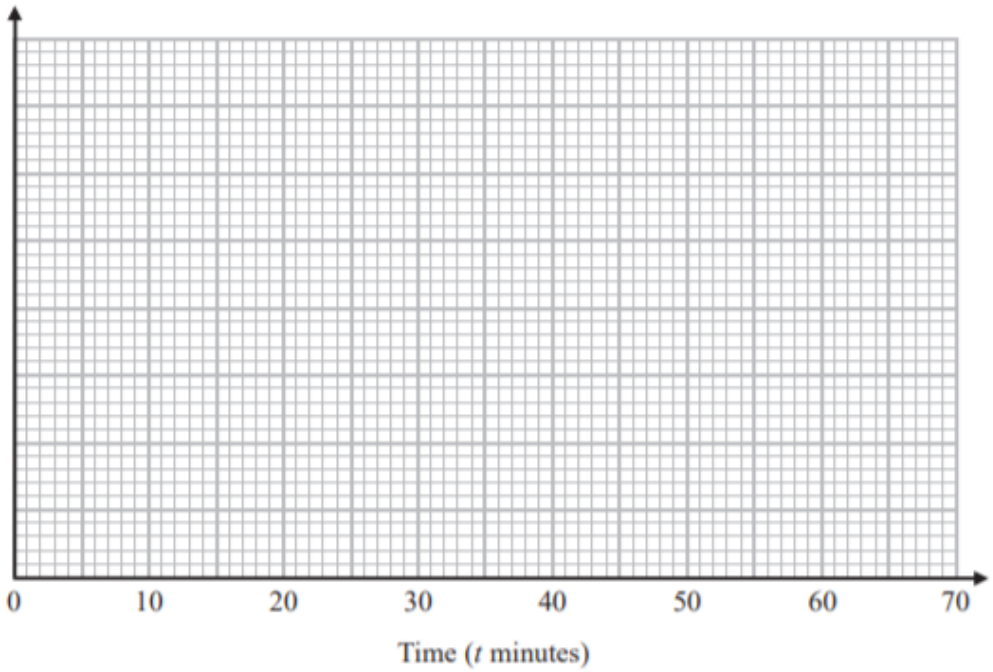
(Total for Question 8 is 3 marks)

9.

The table gives information about the lengths of time some people were in a supermarket.

Time (t minutes)	Frequency
$0 < t \leqslant 5$	8
$5 < t \leqslant 15$	32
$15 < t \leqslant 30$	36
$30 < t \leqslant 40$	18
$40 < t \leqslant 60$	6

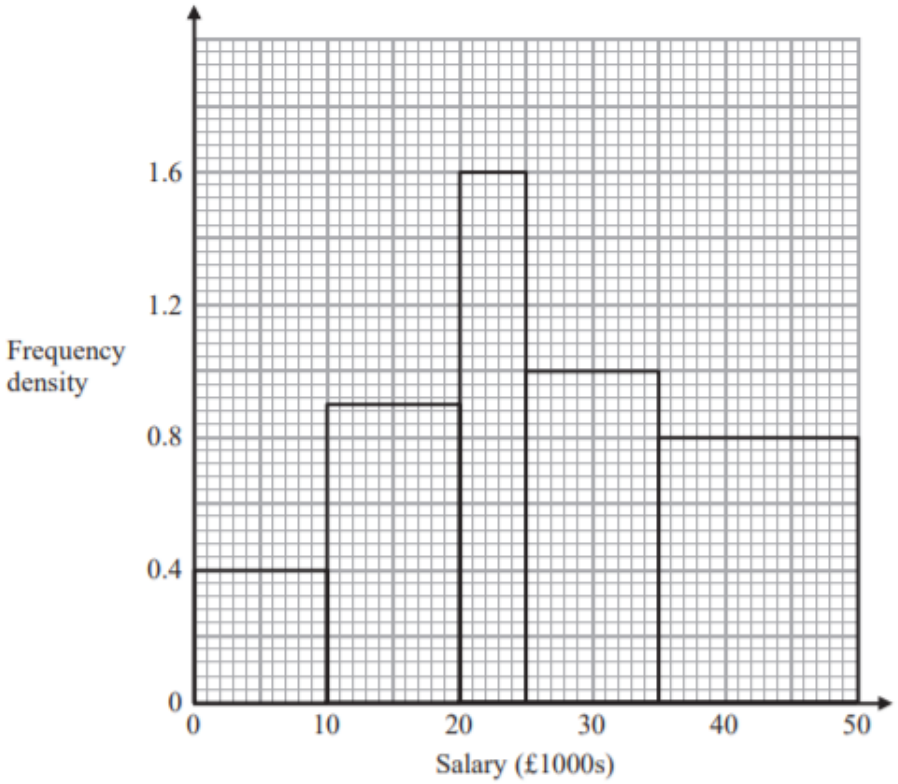
Draw a histogram for the information in the table.



(Total for Question 2 is 3 marks)

10.

5 The histogram shows some information about the salaries of a sample of people.



(a) Use the histogram to complete the frequency table.

Salary (p) in £1000s	Frequency
$0 < p \leqslant 10$	4
$10 < p \leqslant 20$	
$20 < p \leqslant 25$	
$25 < p \leqslant 35$	
$35 < p \leqslant 50$	

(2)