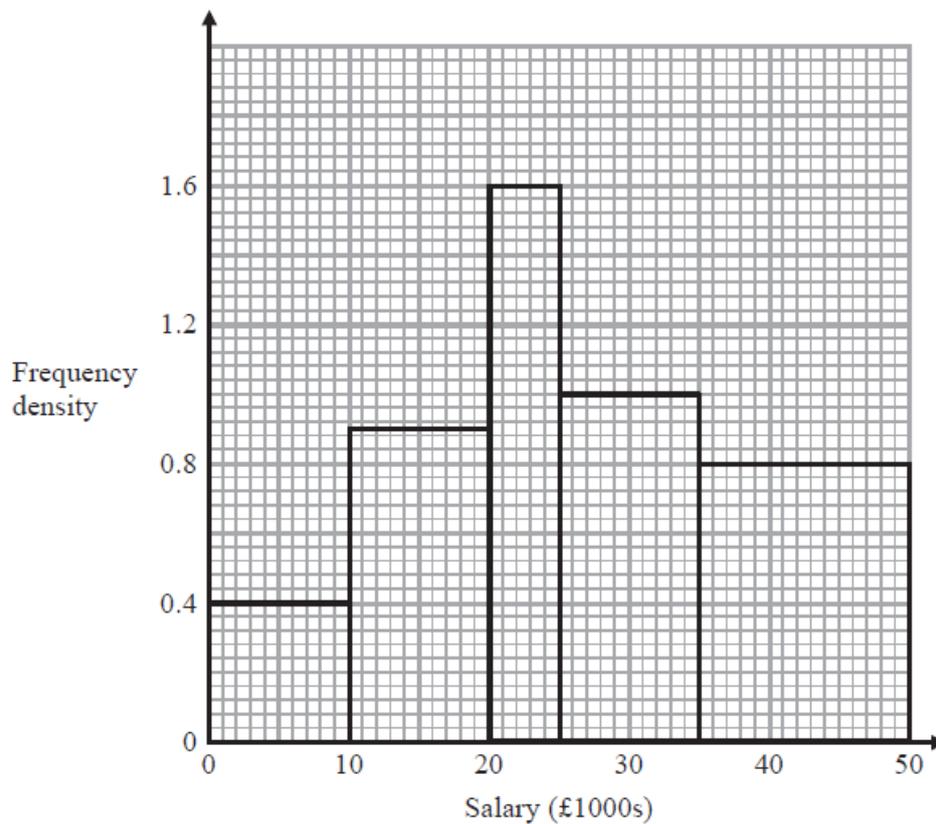


Revision - Histograms

1.

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
$0 < p \leq 10$	4
$10 < p \leq 20$	
$20 < p \leq 25$	
$25 < p \leq 35$	
$35 < p \leq 50$	

(2)

(b) Work out the proportion of people in the sample who have a salary greater than £40 000

.....  
(2)

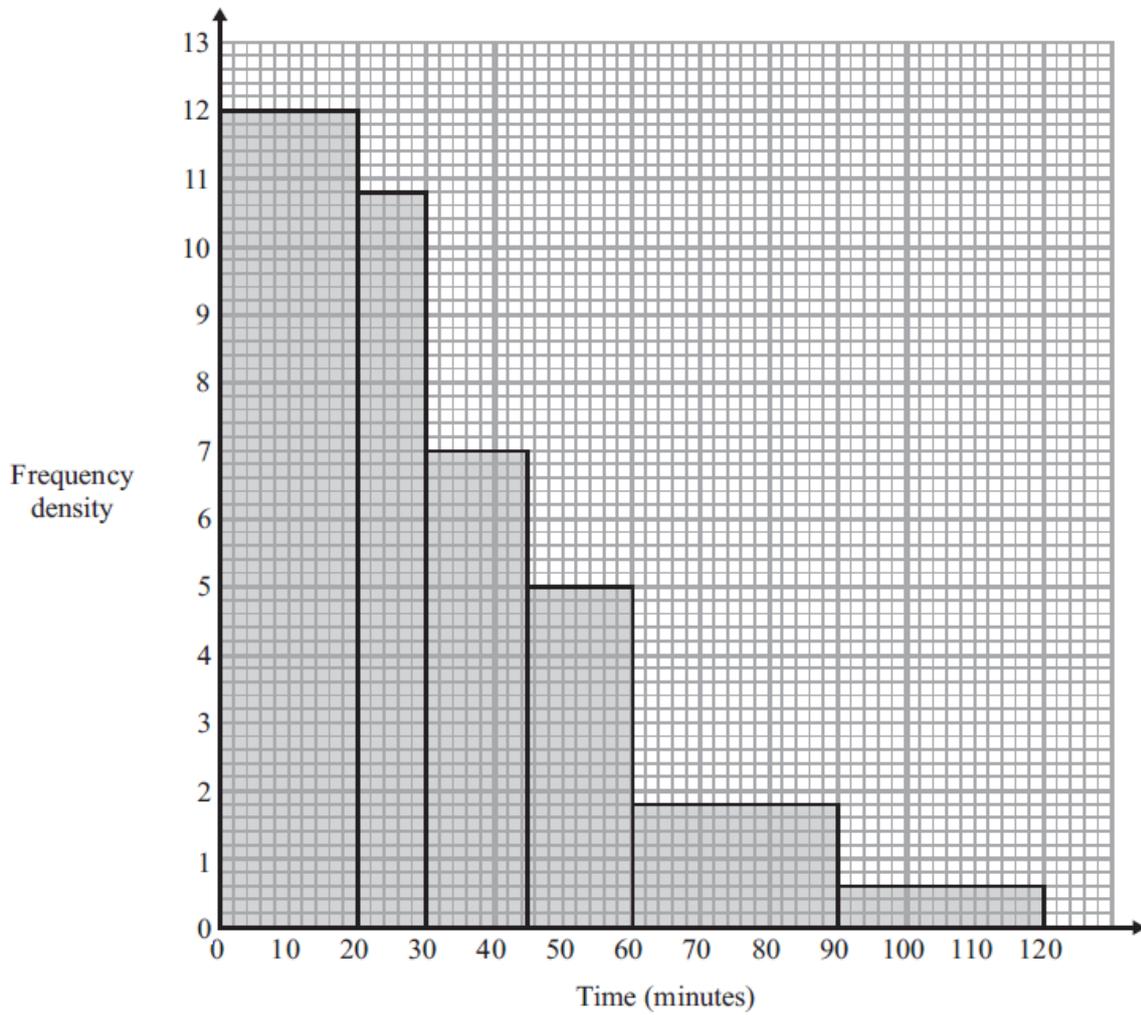
(c) Find an estimate for the median salary.

£.....  
(2)

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2.

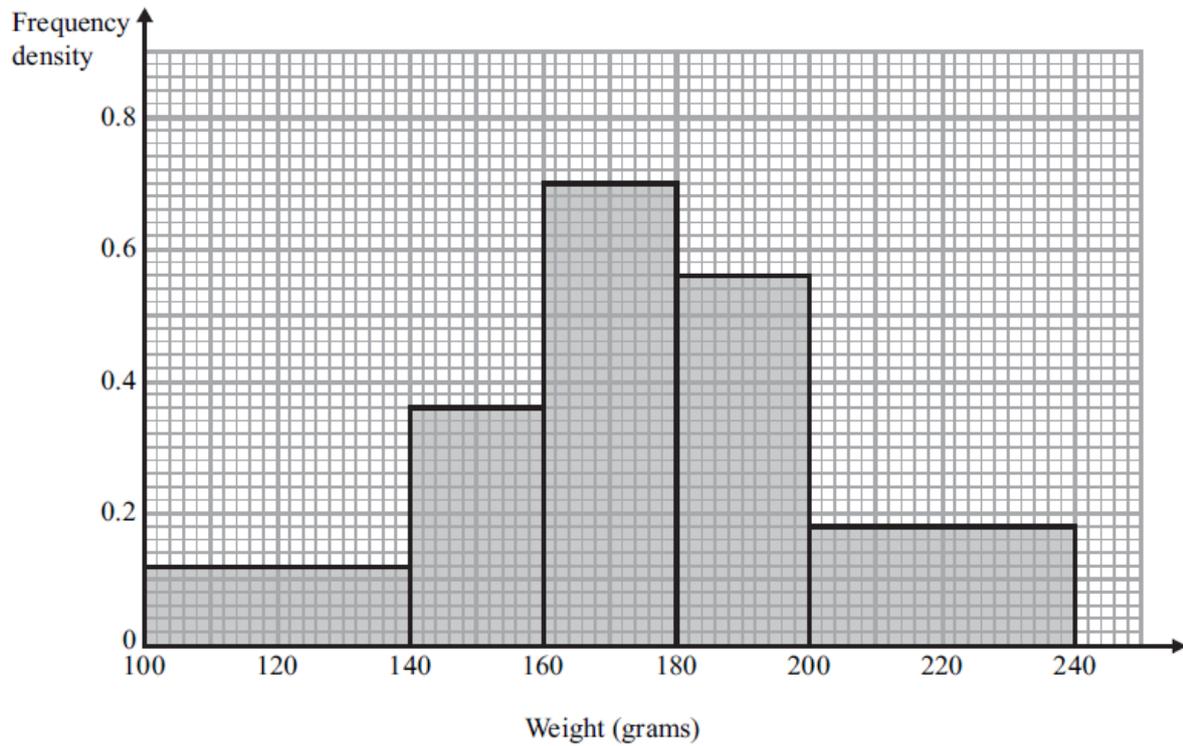
The histogram shows information about the times, in minutes, that some passengers had to wait at an airport.



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

3.

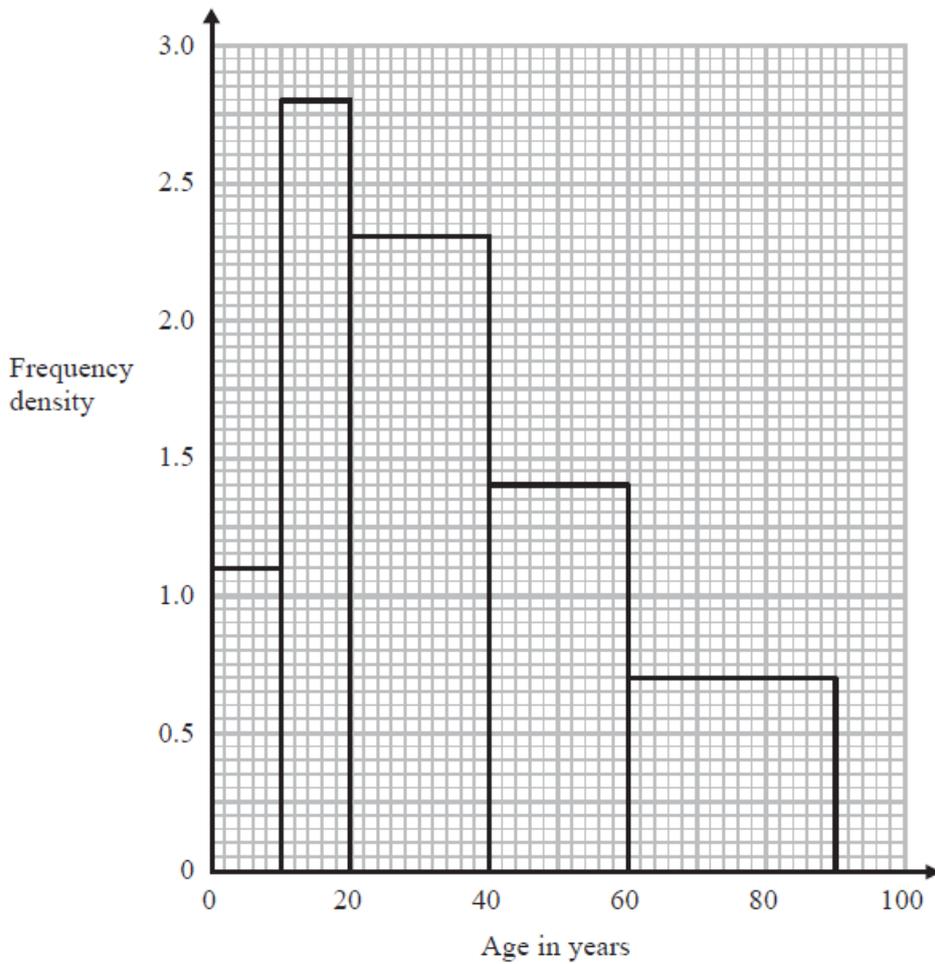
The histogram shows some information about the weights of a sample of apples.



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

4.

The histogram shows some information about the ages of the 134 members of a sports club.



20% of the members of the sports club who are over 50 years of age are female.

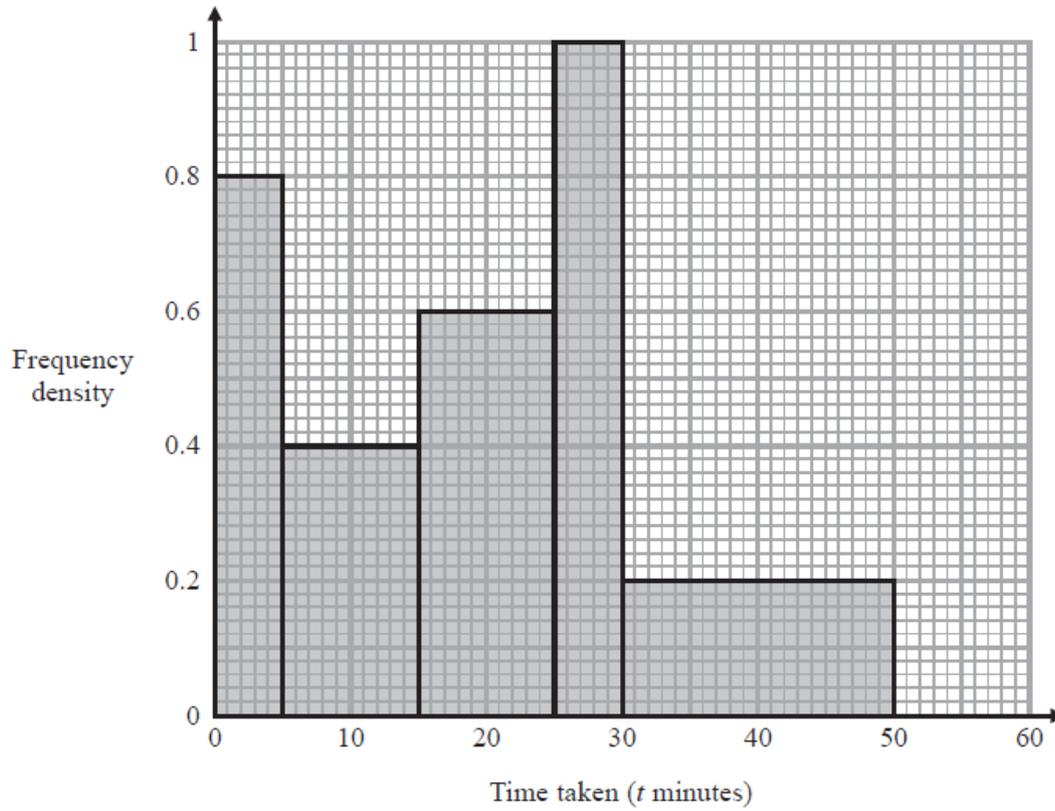
Work out an estimate for the number of female members who are over 50 years of age.

.....  
(3)

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5.

The histogram shows information about the times taken by some students to finish a puzzle.



(a) Complete the frequency table for this information.

Time taken ( $t$ minutes)	Frequency
$0 < t \leq 5$	4
$5 < t \leq 15$	
$15 < t \leq 25$	
$25 < t \leq 30$	
$30 < t \leq 50$	

(2)

(b) Find an estimate for the lower quartile of the times taken to finish the puzzle.

..... minutes  
(2)

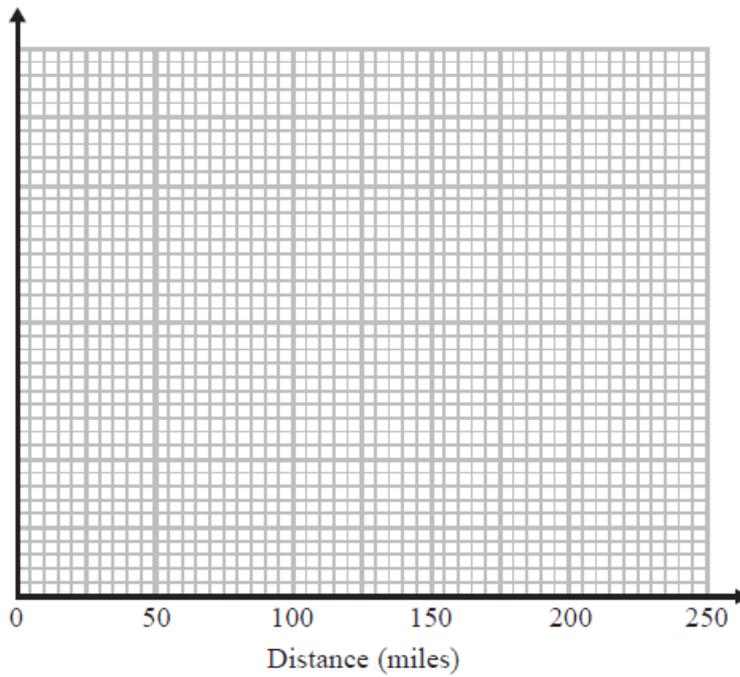
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6.

The table shows information about the distances 570 students travelled to a university open day.

Distance ( $d$ miles)	Frequency
$0 < d \leq 20$	120
$20 < d \leq 50$	90
$50 < d \leq 80$	120
$80 < d \leq 150$	140
$150 < d \leq 200$	100

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



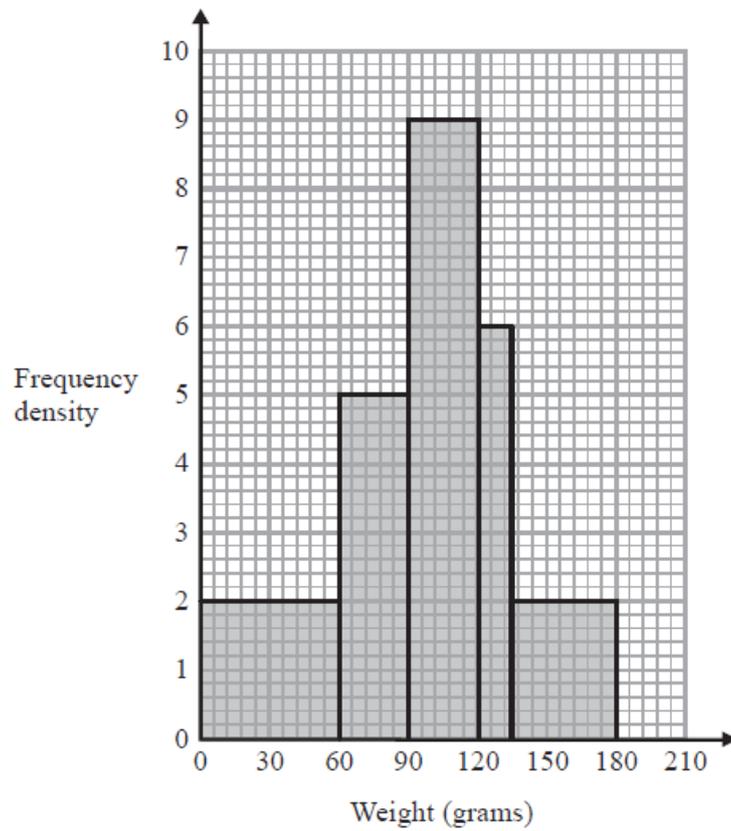
(3)

(b) Estimate the median distance.

..... miles  
(2)

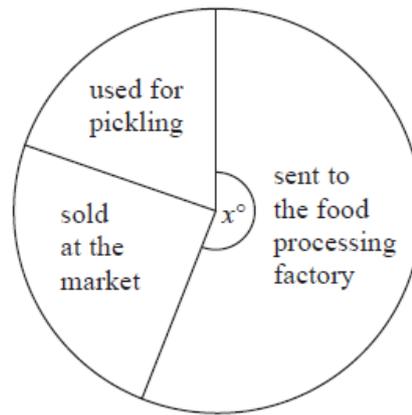
7.

The histogram gives information about the distribution of the weights of some onions grown by a farmer.



Onions less than 60 grams in weight are used for pickling.  
Onions greater than 120 grams in weight are sold at the market.  
The rest of the onions are sent to a food processing factory.

A pie chart is drawn using the information opposite to show what the farmer does with the onions he grows.



The angle of the sector for the onions sent to the food processing factory is  $x^\circ$ .

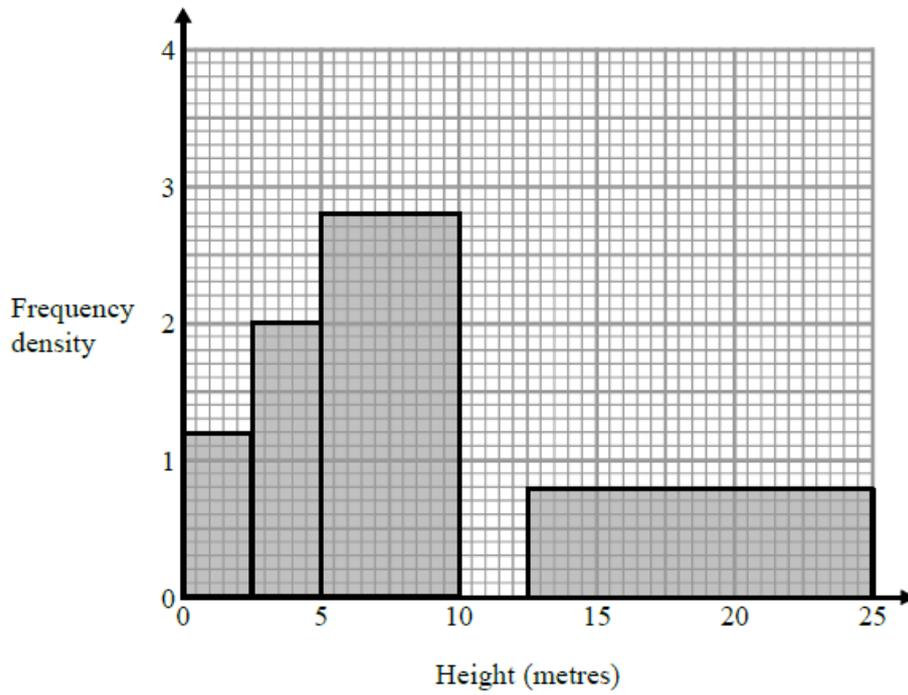
Work out the value of  $x$ .

$x = \dots\dots\dots$

(4)

8.

The histogram gives information about the heights, in metres, of the trees in a park. The histogram is incomplete.



20% of the trees in the park have a height between 10 metres and 12.5 metres. None of the trees in the park have a height greater than 25 metres.

Complete the histogram.

(3)