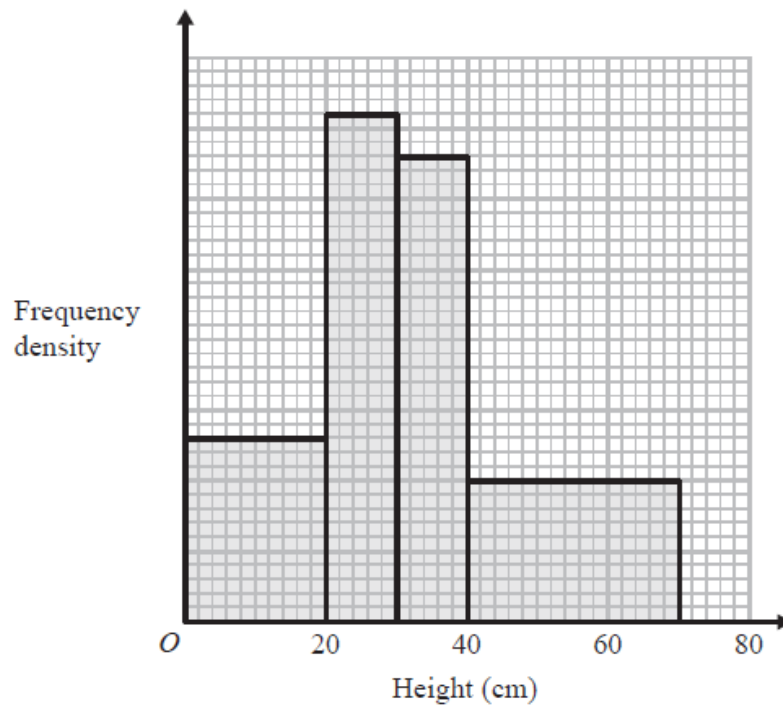


Histograms 2

1.

The histogram shows information about the heights of some tomato plants.



26 plants have a height of less than 20 cm.

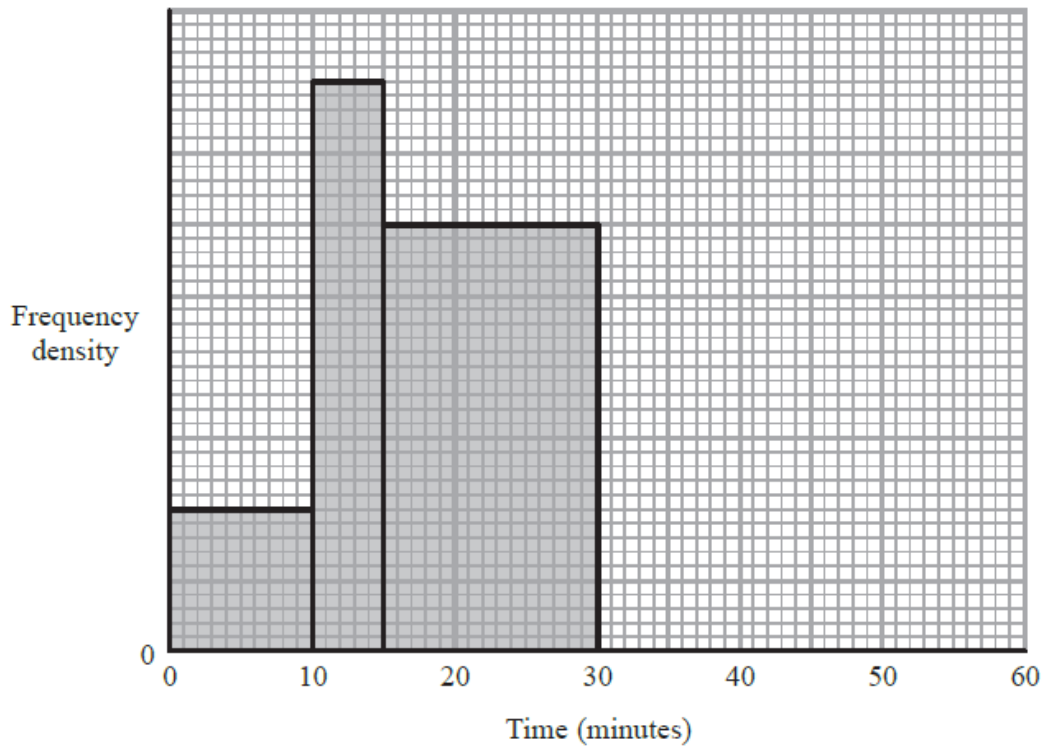
Work out the total number of tomato plants.

(3)

2.

Miss Cook asked each student in her class how long it took them, in minutes, to travel to school that morning.

The incomplete histogram shows information about the times it took the students who took no more than 30 minutes to travel to school.



9 students took between 15 minutes and 30 minutes to travel to school.

(a) How many students took no more than 30 minutes to travel to school?

.....
(2)

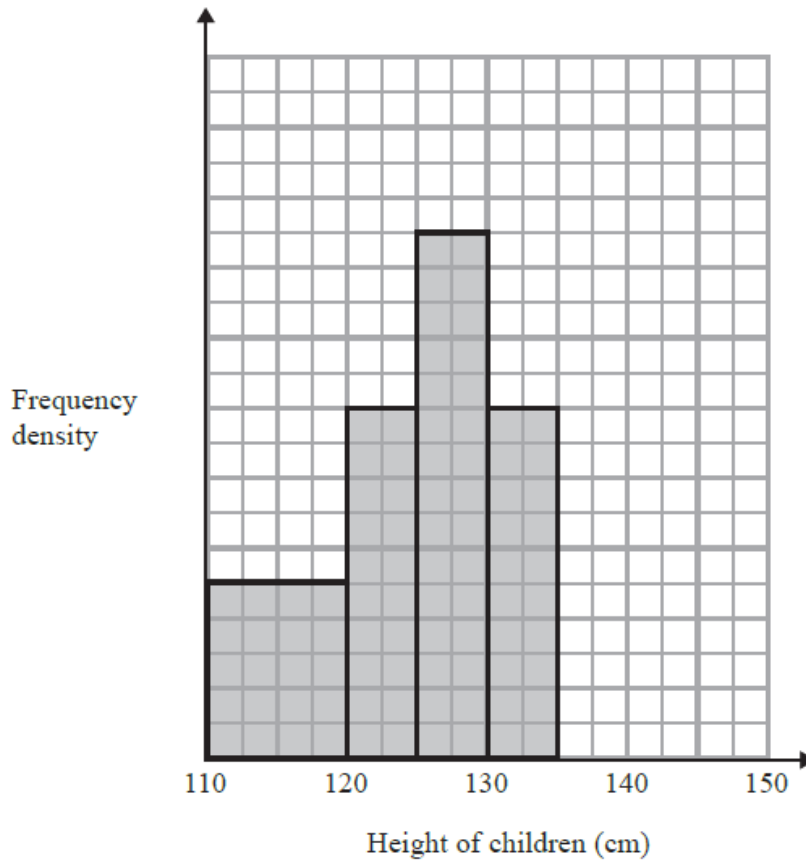
12 students took between 30 and 55 minutes to travel to school.

(b) Use this information to complete the histogram.

(2)

3.

The incomplete histogram shows information about the heights of a group of children.



There were 10 children with heights between 130 cm and 135 cm.

(a) How many children had heights between 110 cm and 130 cm?

.....
(3)

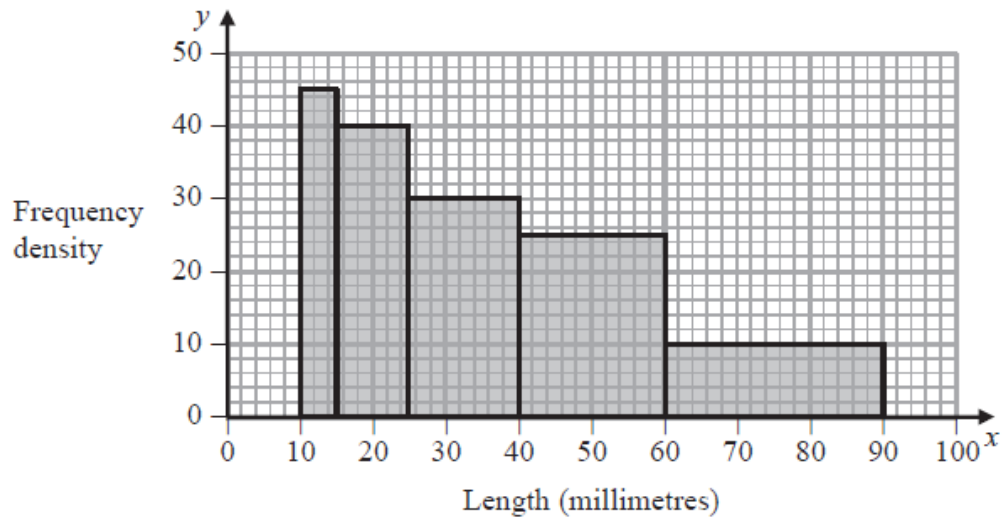
There were 6 children with heights between 135 cm and 145 cm.

(b) Show this information on the histogram.

(1)

4.

The histogram gives information about the lengths, in millimetres, of 1875 snails.



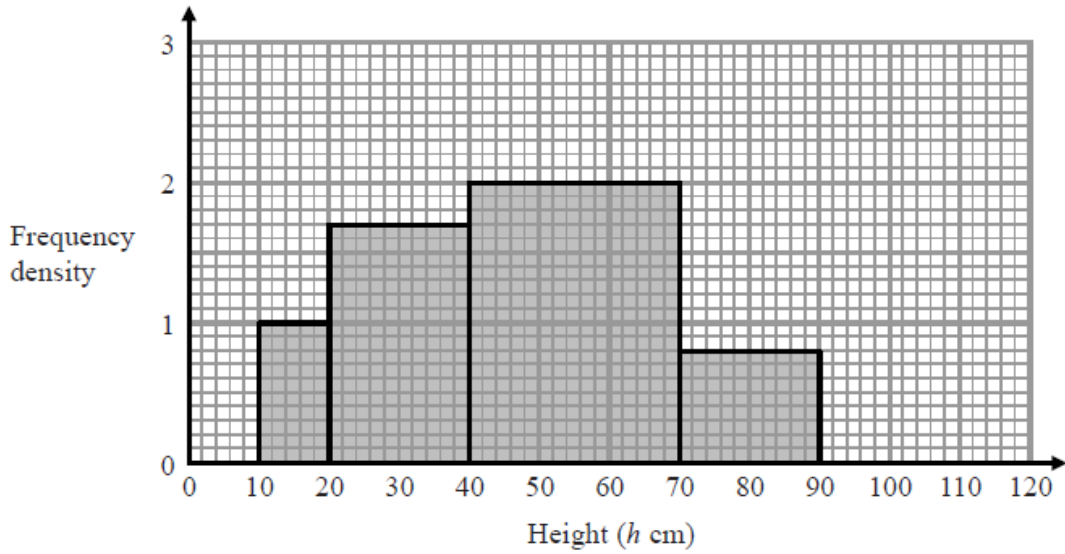
Calculate an estimate for the proportion of the snails more than 55 millimetres in length.

.....
(3)

5.

Mayang collected bamboo plants for an experiment.
The heights of Mayang's bamboo plants are all between 10 cm and 110 cm.

The incomplete histogram gives some information about the heights, h cm, of the bamboo plants.



Mayang found that 4% of the bamboo plants had heights in the interval $90 < h \leq 110$

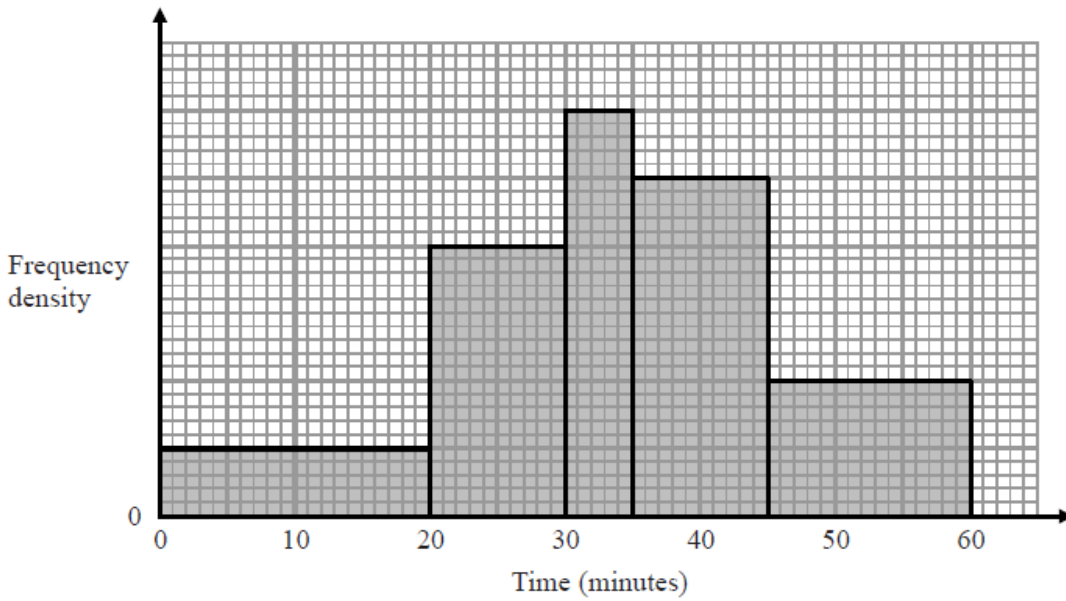
Use this information to complete the histogram.

(4)

6.

Jill reads each day.

The histogram gives information about the time, in minutes, that she spent reading on each of 85 days.



(a) Find the number of days on which Jill read for between 30 and 35 minutes.

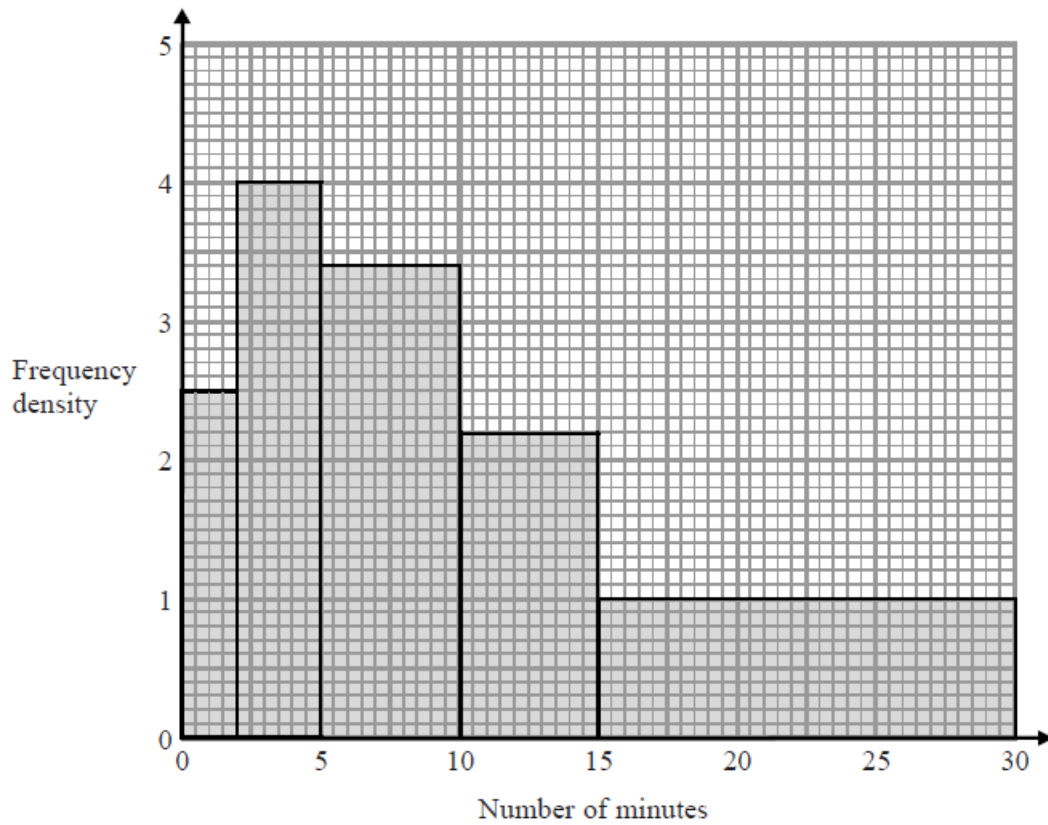
(2)

(b) Find an estimate for the number of days on which Jill read for less than 33 minutes.

(2)

7.

The histogram shows information about the numbers of minutes some people waited to be served at a Post Office.

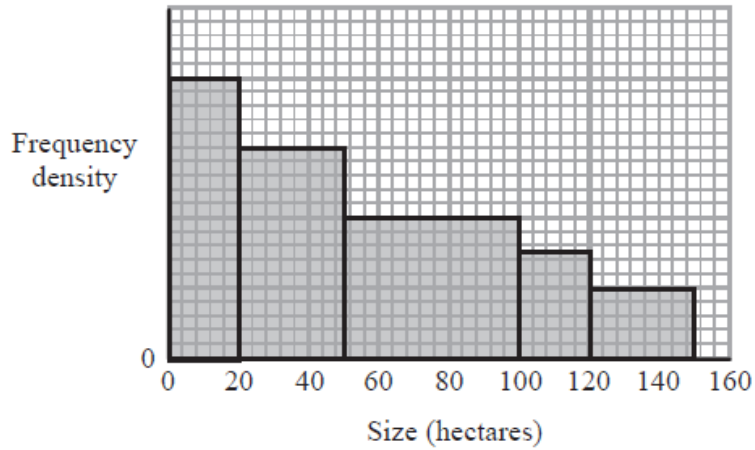


Work out an estimate for the proportion of these people who waited longer than 20 minutes to be served.

(3)

8.

The histogram gives information about the sizes, in hectares, of some farms in Spain.



80 of the farms have a size of 20 hectares or less.

20% of the farms with a size of 100 hectares or less grow wheat.

$\frac{3}{4}$ of the farms with a size of more than 100 hectares grow wheat.

Work out the total number of these farms that grow wheat.

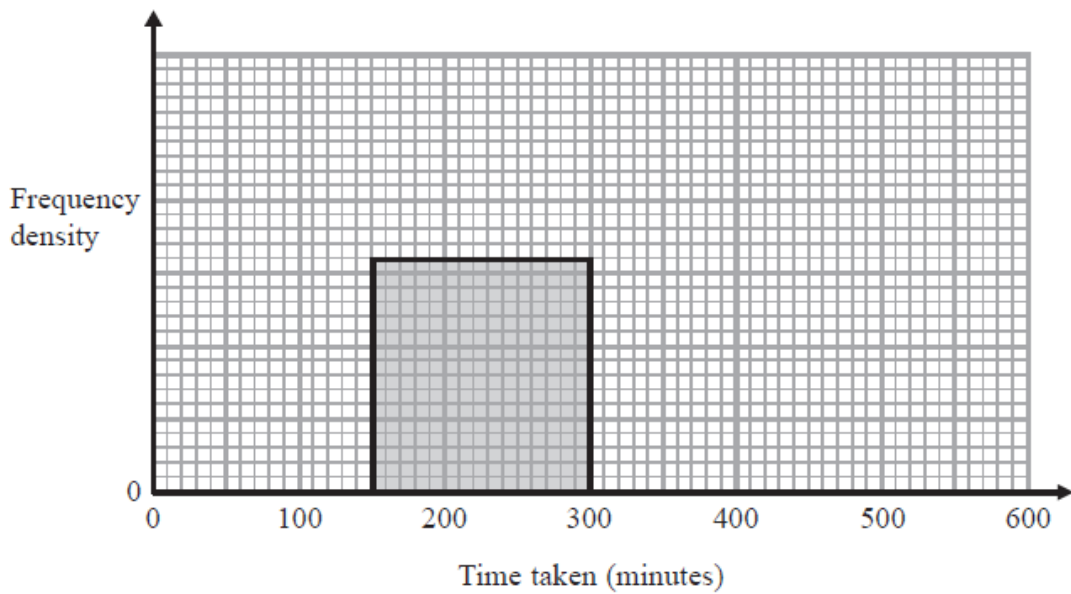
(5)

9.

The table gives information about the time taken by each of 600 people to reach their holiday destination.

Time taken (t minutes)	Frequency
$0 < t \leq 100$	120
$100 < t \leq 150$	140
$150 < t \leq 300$	240
$300 < t \leq 500$	80
$500 < t \leq 600$	20

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



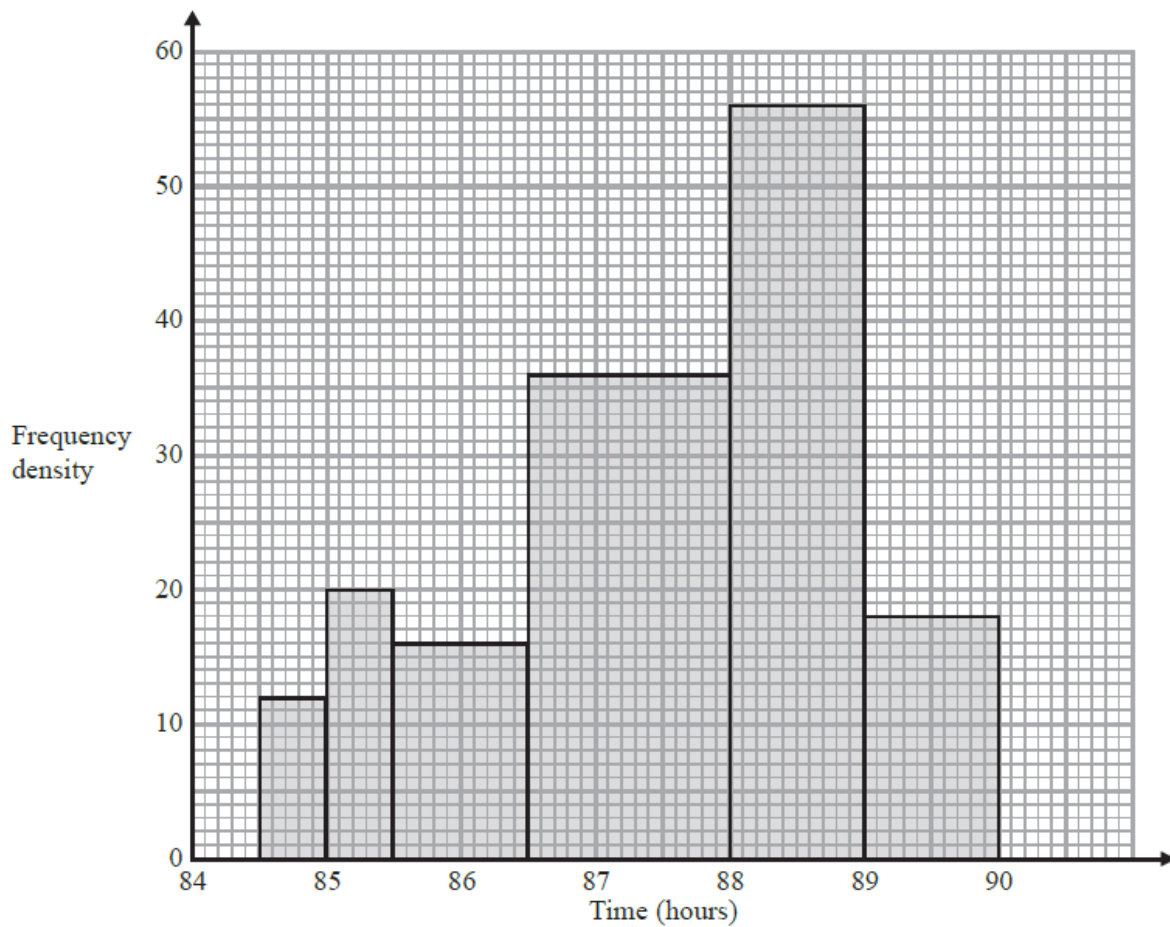
(b) Work out an estimate for the number of people who took more than 200 minutes to reach their holiday destination.

(2)

(2)

10.

The histogram shows information about the times taken by 160 cyclists to complete the Tour de France cycle race.



6 cyclists took less than 85 hours.

(a) Work out an estimate for the number of the 160 cyclists who took less than 86 hours.

(2)

- (b) For these 160 cyclists, work out an estimate for the time taken by the cyclist who finished in 50th position.

..... hours
(2)
