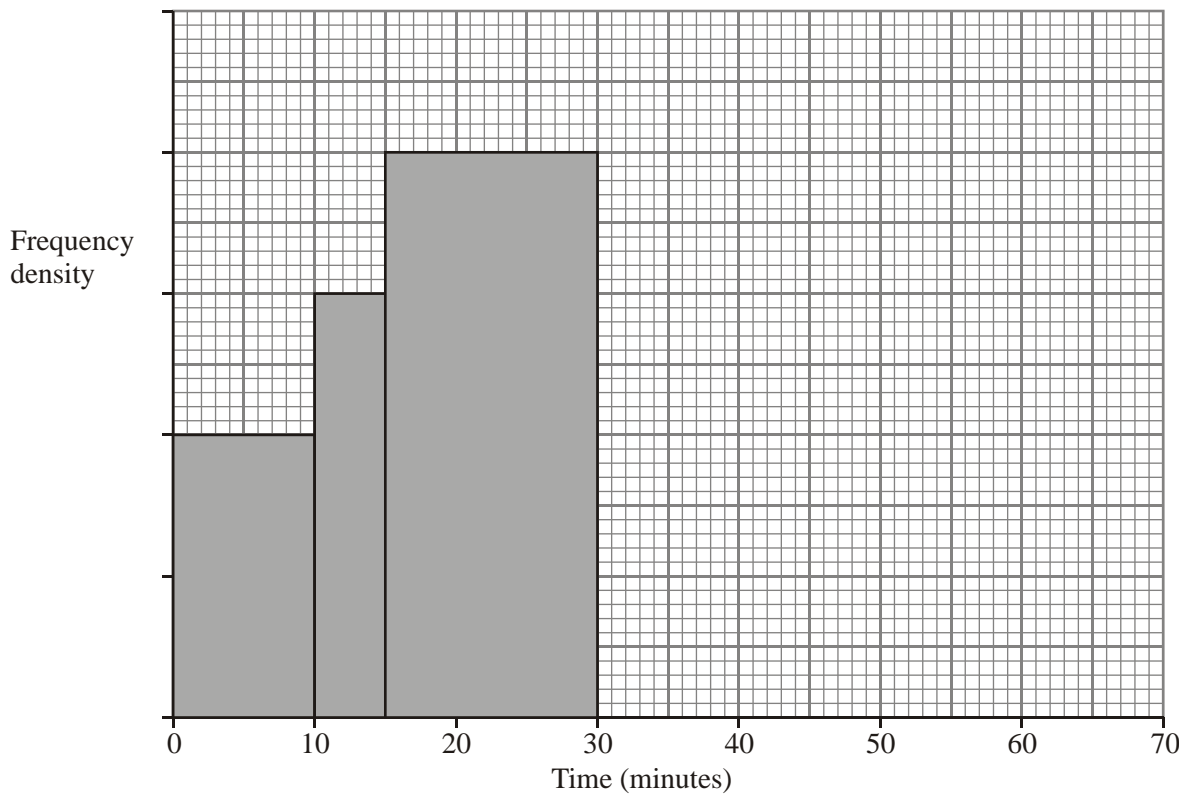


Histograms

20 marks

1. The table and histogram give information about how long, in minutes, some students took to complete a homework.

| Time (t) in minutes | Frequency |
|-------------------------|-----------|
| $0 < t \leq 10$ | 20 |
| $10 < t \leq 15$ | |
| $15 < t \leq 30$ | |
| $30 < t \leq 50$ | 62 |
| $50 < t \leq 60$ | 23 |



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

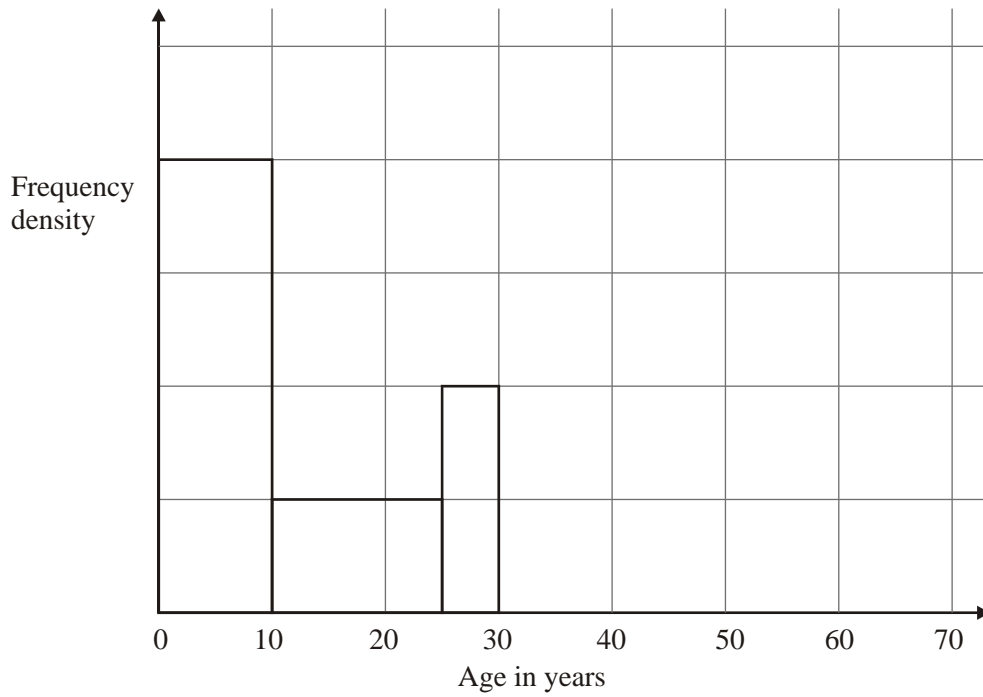
(2)

- (b) Use the table to complete the histogram.

(2)

(Total 4 marks)

2. The incomplete table and histogram give some information about the ages of the people who live in a village.



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

| Age (x) in years | Frequency |
|----------------------|-----------|
| $0 < x \leq 10$ | 160 |
| $10 < x \leq 25$ | |
| $25 < x \leq 30$ | |
| $30 < x \leq 40$ | 100 |
| $40 < x \leq 70$ | 120 |

(2)

- (b) Complete the histogram.

(2)

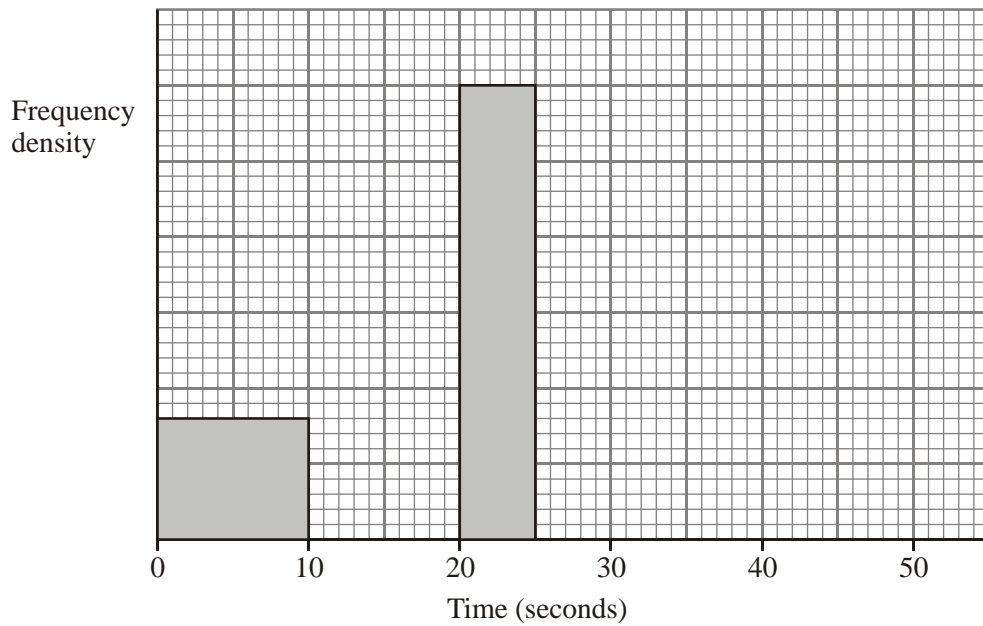
(Total 4 marks)

3. One Monday, Victoria measured the time, in seconds, that individual birds spent on her bird table.

She used this information to complete the frequency table.

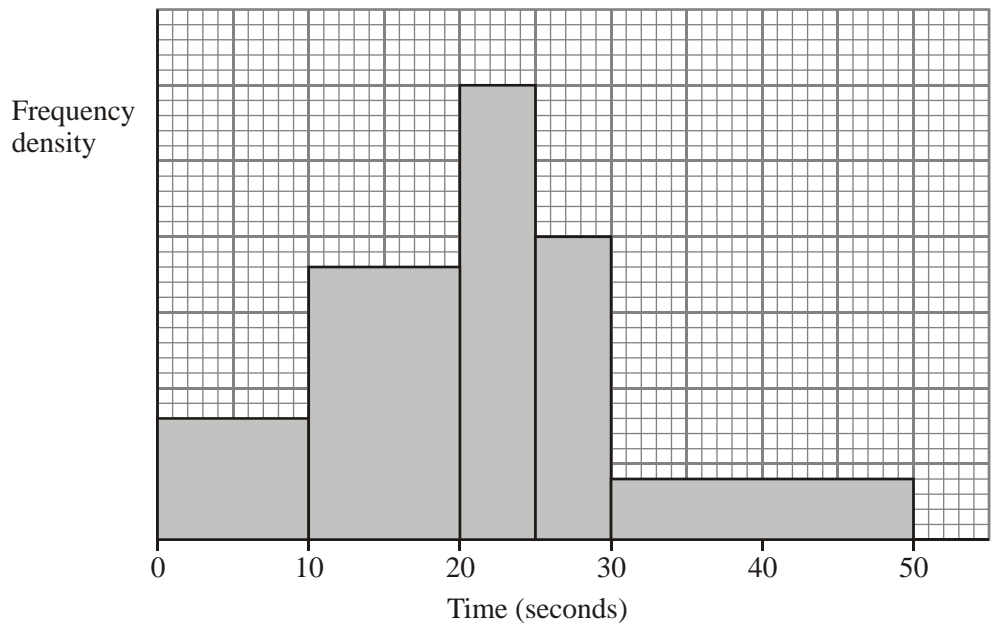
| Time (t seconds) | Frequency |
|---------------------|-----------|
| $0 < t \leq 10$ | 8 |
| $10 < t \leq 20$ | 16 |
| $20 < t \leq 25$ | 15 |
| $25 < t \leq 30$ | 12 |
| $30 < t \leq 50$ | 6 |

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



(3)

On Tuesday she conducted a similar survey and drew the following histogram from her



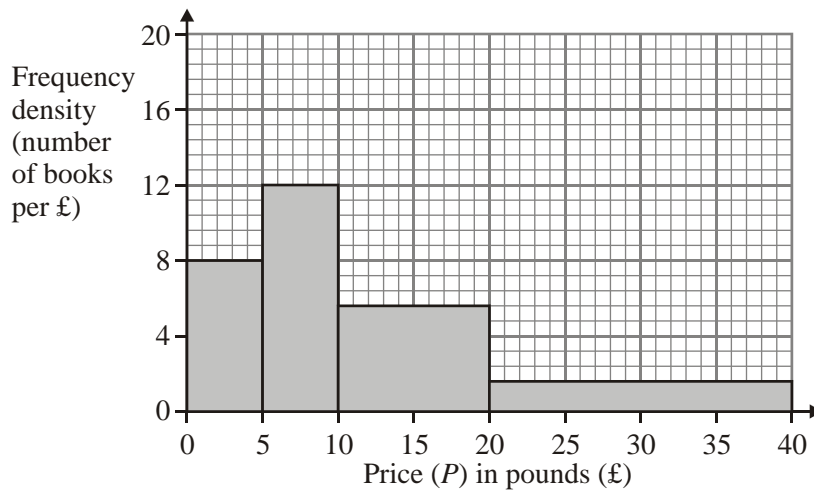
results.

(b) Use the histogram for Tuesday to complete the table.

| Time (t seconds) | Frequency |
|---------------------|-----------|
| $0 < t \leq 10$ | 10 |
| $10 < t \leq 20$ | |
| $20 < t \leq 25$ | |
| $25 < t \leq 30$ | |
| $30 < t \leq 50$ | |

(2)
(Total 5 marks)

4. This histogram gives information about the books sold in a bookshop one Saturday.



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

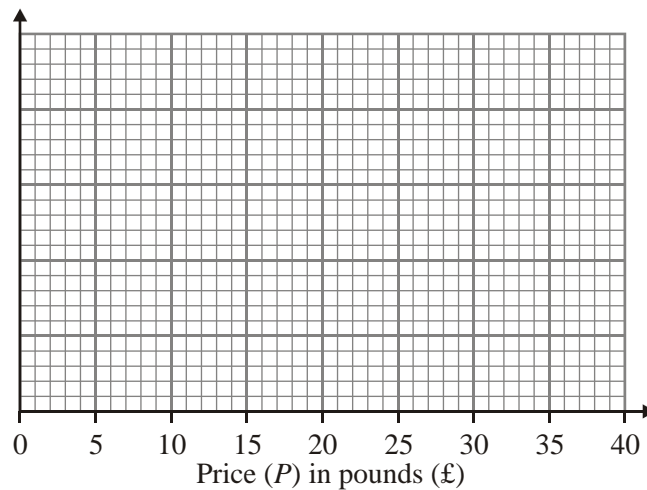
| Price (P) in pounds (£) | Frequency |
|-----------------------------|-----------|
| $0 < P \leq 5$ | |
| $5 < P \leq 10$ | |
| $10 < P \leq 20$ | |
| $20 < P \leq 40$ | |

(2)

The frequency table below gives information about the books sold in a second bookshop on the same Saturday.

| Price (P) in pounds (£) | Frequency |
|-----------------------------|-----------|
| $0 < P \leq 5$ | 80 |
| $5 < P \leq 10$ | 20 |
| $10 < P \leq 20$ | 24 |
| $20 < P \leq 40$ | 96 |

- (b) On the grid below, draw a histogram to represent the information about the books sold in the second bookshop.

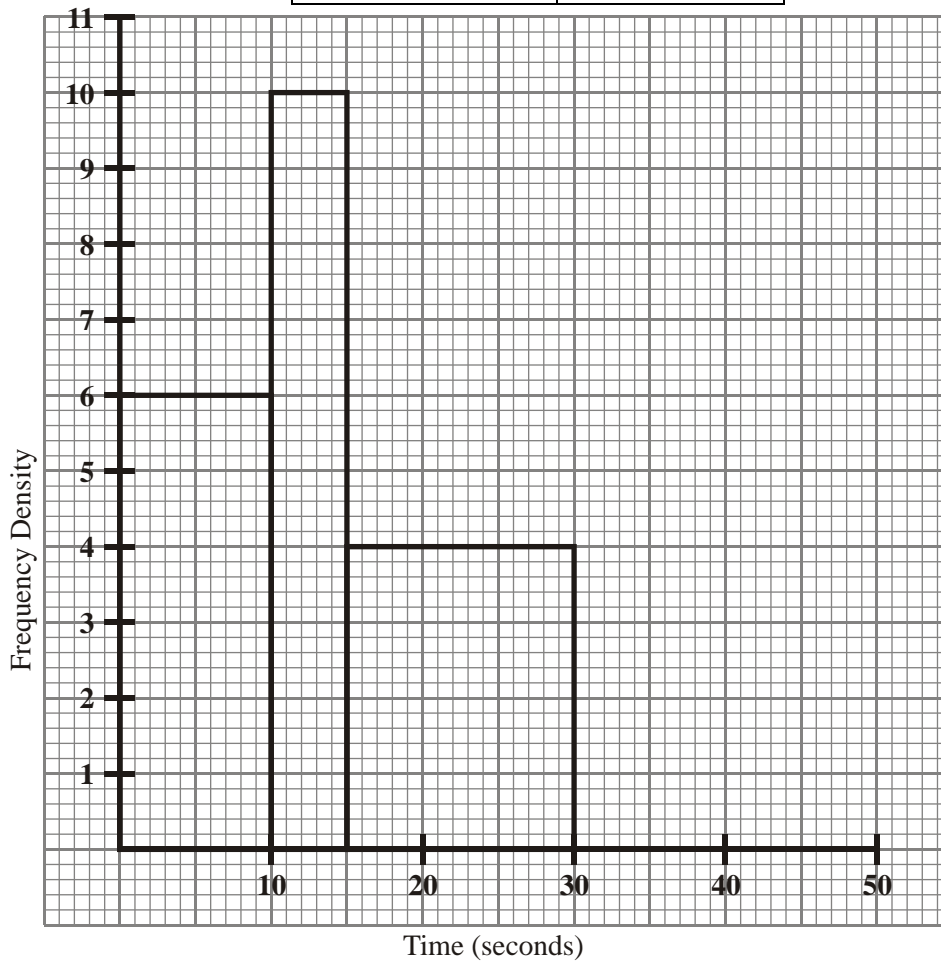


(3)
(Total 5 marks)

5. George conducted a survey about the journey time, in minutes, of students getting to his school.

The results are summarised in the incomplete table below and shown on the incomplete histogram below.

| Time (minutes) | Frequency |
|--------------------|-----------|
| 0 to less than 10 | 60 |
| 10 to less than 15 | |
| 15 to less than 30 | 60 |
| 30 to less than 50 | 40 |



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

(1)

- (b) Use the information in the table to complete the histogram.

(Total 2 marks)