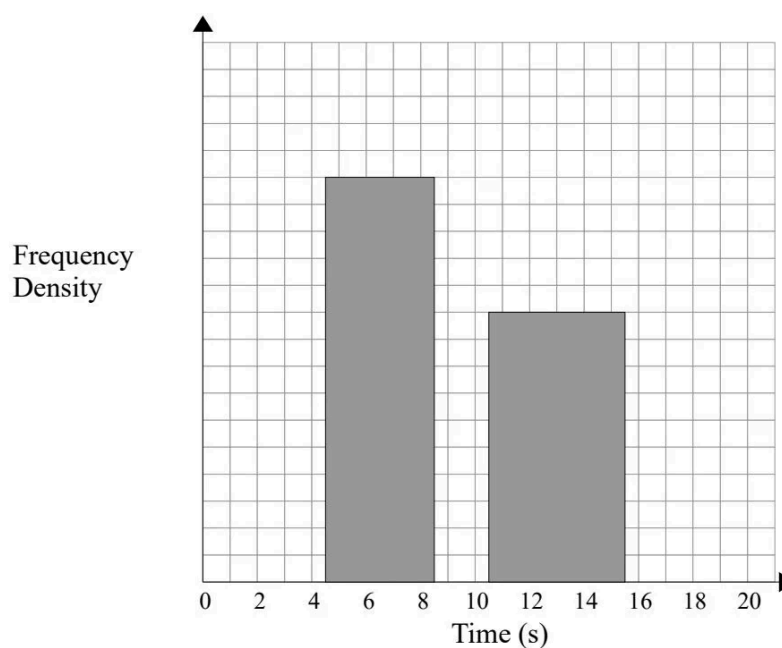


- 1 The partially completed histogram and the partially completed table show the times taken, to the nearest second, for a group of people to complete a puzzle.



Time (seconds)	Frequency
1–4	2
5–8	12
9–10	8
11–15	
16–20	3

- (a) Complete the table.

(1)

(b) Complete the histogram.

(2)

(c) One of the participants is selected at random.

Estimate the probability that this participant completed the puzzle in under 10 seconds.

(2)

(Total for question 1 is 5 marks)

- 2** A variable x was measured to the nearest whole number. 50 observations are given in the table below.

x	5–8	9–13	14–20	21–24
Frequency	10	9	14	17

A histogram was drawn and the bar representing the 9–13 class has a width of 2 cm and a height of 2.7 cm.

Find the width and height of the bar representing the 14–20 class.

(Total for question 2 is 3 marks)

- 3** A variable y was measured to the nearest whole number. 40 observations are given in the table below.

y	10–19	20–24	25–28	29–30
Frequency	13	7	15	5

A histogram was drawn and the bar representing the 10–19 class has a width of 2.5 cm and a height of 2.6 cm.

- (a) Find the width and height of the bar representing the 20–24 class.

(3)

- (b) Find the width and height of the bar representing the 25–28 class.

(3)

(Total for question 3 is 6 marks)

- 4 The distance travelled by 100 people to an event is summarised below.

Distance (nearest mile)	Frequency
0–9	4
10–14	19
15–18	41
19–20	26
21–25	9

A histogram was drawn and the bar representing the 10–14 class has a width of 3 cm and a height of 1.9 cm.

- (a) Find the width and height of the bar representing the 15–18 class.

(3)

- (b) Find the width and height of the bar representing the 19–20 class.

(3)

(Total for question 4 is 6 marks)
