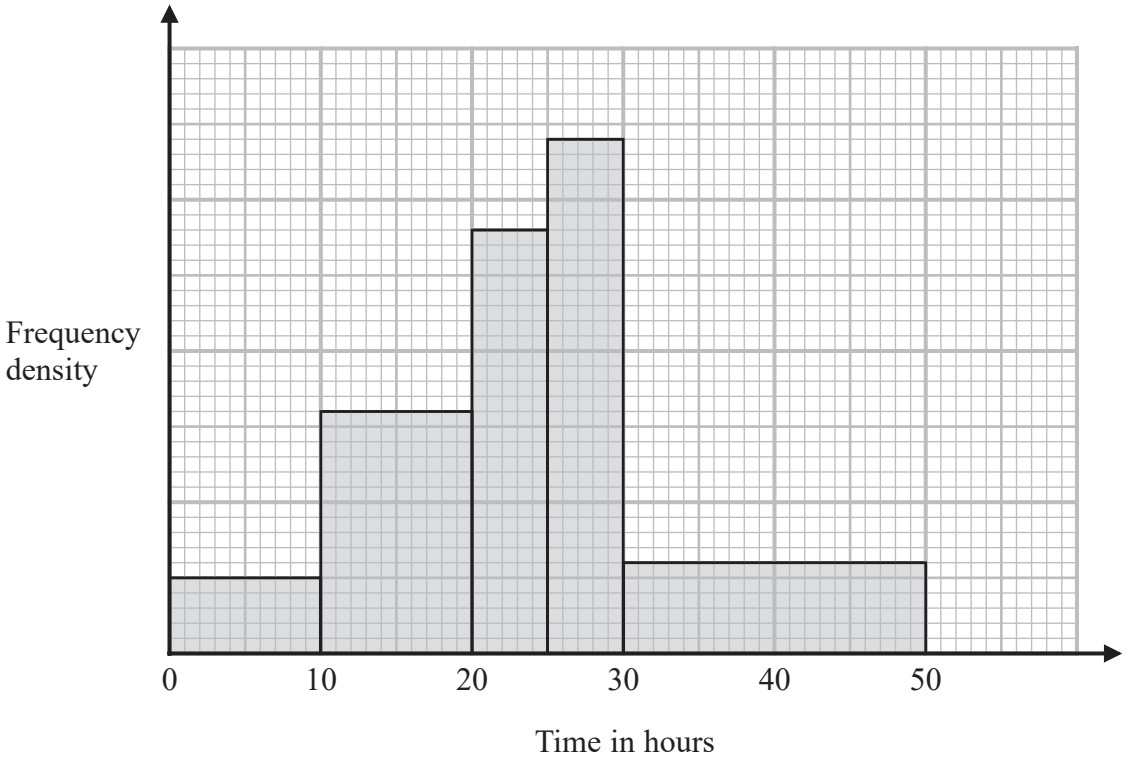
5.



The histogram shows the number of hours worked in a given week by a group of 64 freelance photographers.

(a) Give a reason to justify the use of a histogram to represent these data.

(1)

Given that 16 of these freelance photographers spent between 10 and 20 hours working in this week,

(b) estimate the number that spent between 12 and 24 hours working in this week.

(3)

(c) Find an estimate for the median time spent working in this week by these 64 freelance photographers.

(2)

Charlie decides to model these data using a normal distribution.
Charlie calculates an estimate of the mean to be 23.9 hours to one decimal place.

(d) Comment on Charlie's decision to use a normal distribution.
Give a justification for your answer.

(2)

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Question 5 continued

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Question 5 continued

(Total for Question 5 is 8 marks)