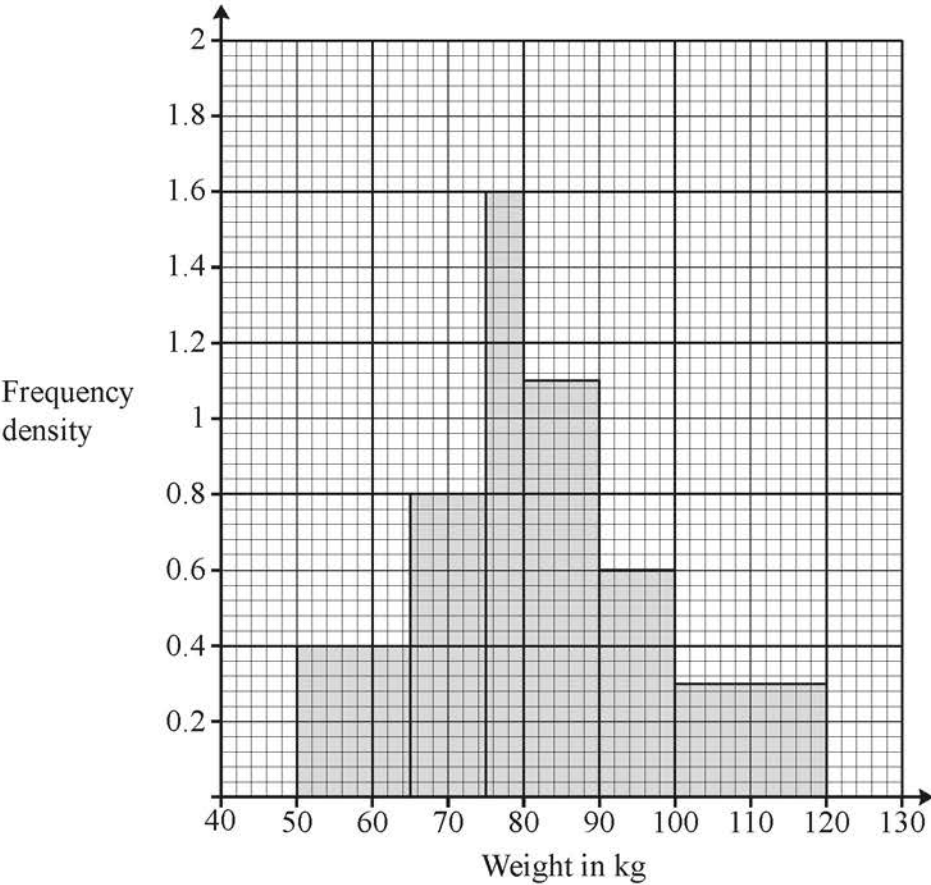


12 Doctors are investigating the weights of adult males registered at their surgery. One week they collect a sample by noting the weight in kilograms of all the adult males who have an appointment at their surgery.

- (a) State the sampling method they use. [1]
- (b) Explain why this method will **not** generate a simple random sample of all the adult males registered at their surgery. [1]

They represent the data using a histogram.



An incomplete frequency table for the data is shown below.

Weight in kg	50–	65–	75–	80–	90–	100–120
Frequency		8				

- (c) Complete the copy of the frequency table in the Printed Answer Booklet. [1]

One of these patients is selected at random.

- (d) Determine an estimate of the probability that he weighs either less than 60 kg or more than 110 kg. [2]
- (e) Explain why your answer to part (d) is an estimate and not exact. [1]