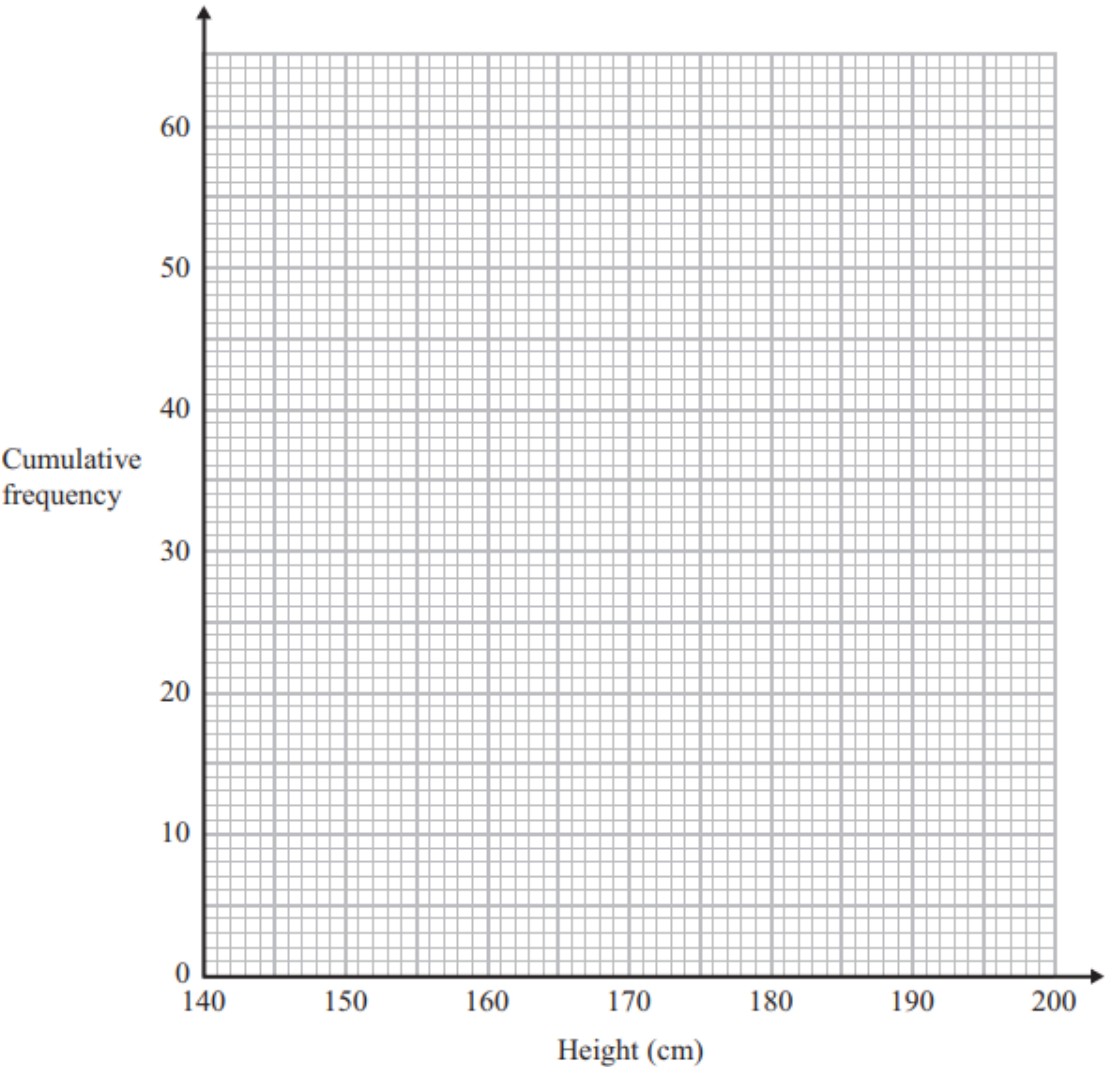


1 The cumulative frequency table shows the height, in cm, of some tomato plants.

Height	Cumulative Frequency
$140 < h \leq 150$	7
$140 < h \leq 160$	17
$140 < h \leq 170$	32
$140 < h \leq 180$	51
$140 < h \leq 190$	57
$140 < h \leq 200$	60

(a) On the grid, plot a cumulative frequency graph for this information.

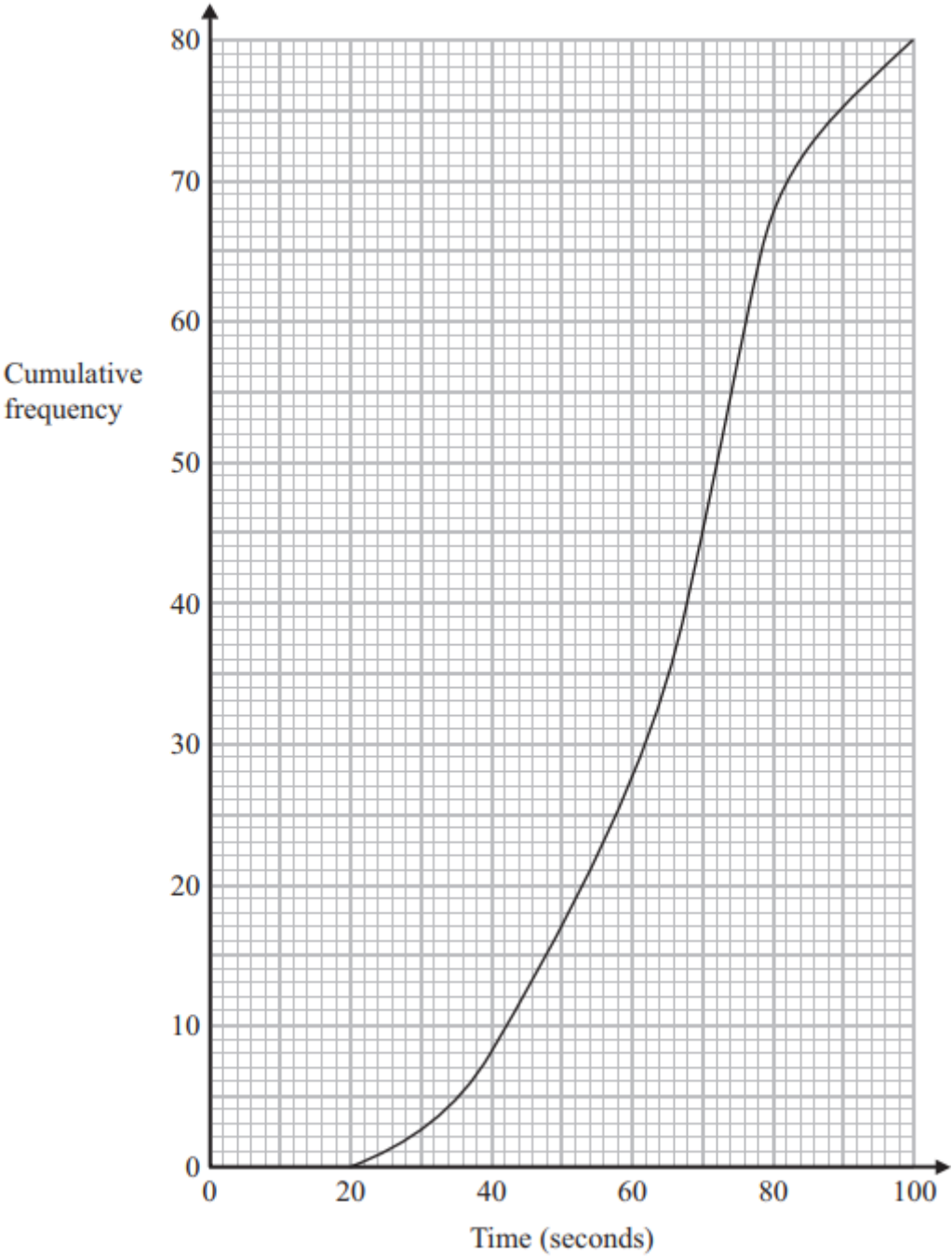


(b) Find the median height.

.....cm
(1)

(Total for question 1 is 3 marks)

2 The cumulative frequency graph gives some information about the times it took people to complete a challenge.



(a) Find the median time.

.....seconds
(1)

(b) Find the number of people who took longer then 80 seconds to complete the challenge.

.....
(1)

(Total for question 2 is 2 marks)

- 3 The frequency table shows the weight, in kg, of some cats.

Weight (kg)	Frequency
$0 < w \leq 1$	8
$1 < w \leq 2$	10
$2 < w \leq 3$	21
$3 < w \leq 4$	19
$4 < w \leq 5$	13
$5 < w \leq 6$	9

- (b) Complete the cumulative frequency table

(1)

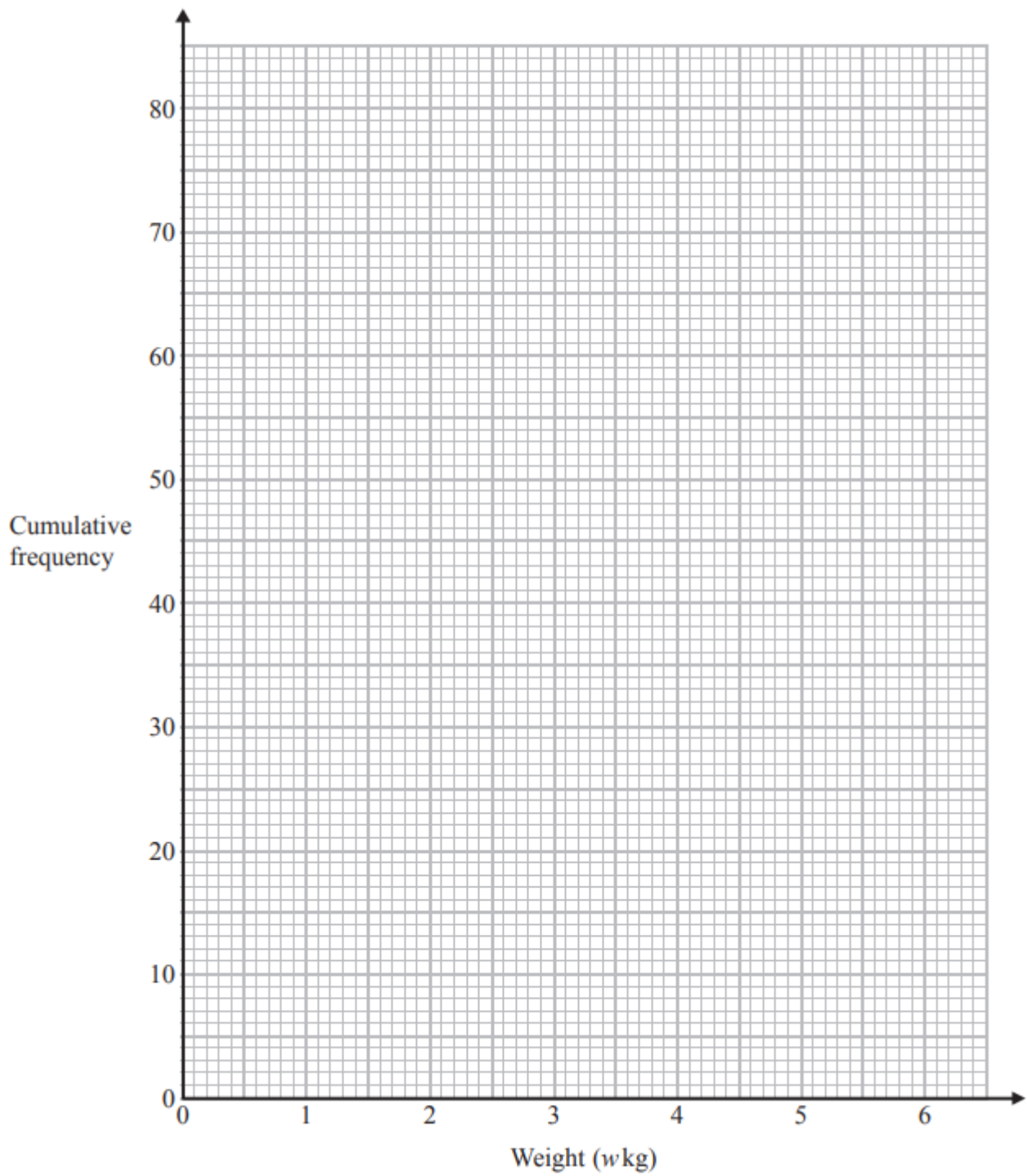
Weight (kg)	Cumulative Frequency
$0 < w \leq 1$	
$0 < w \leq 2$	
$0 < w \leq 3$	
$0 < w \leq 4$	
$0 < w \leq 5$	
$0 < w \leq 6$	

- (b) On the grid opposite draw a cumulative frequency graph for this information.

(2)

- (c) Use your cumulative frequency graph to find an estimate for the interquartile range.

.....kg
(2)

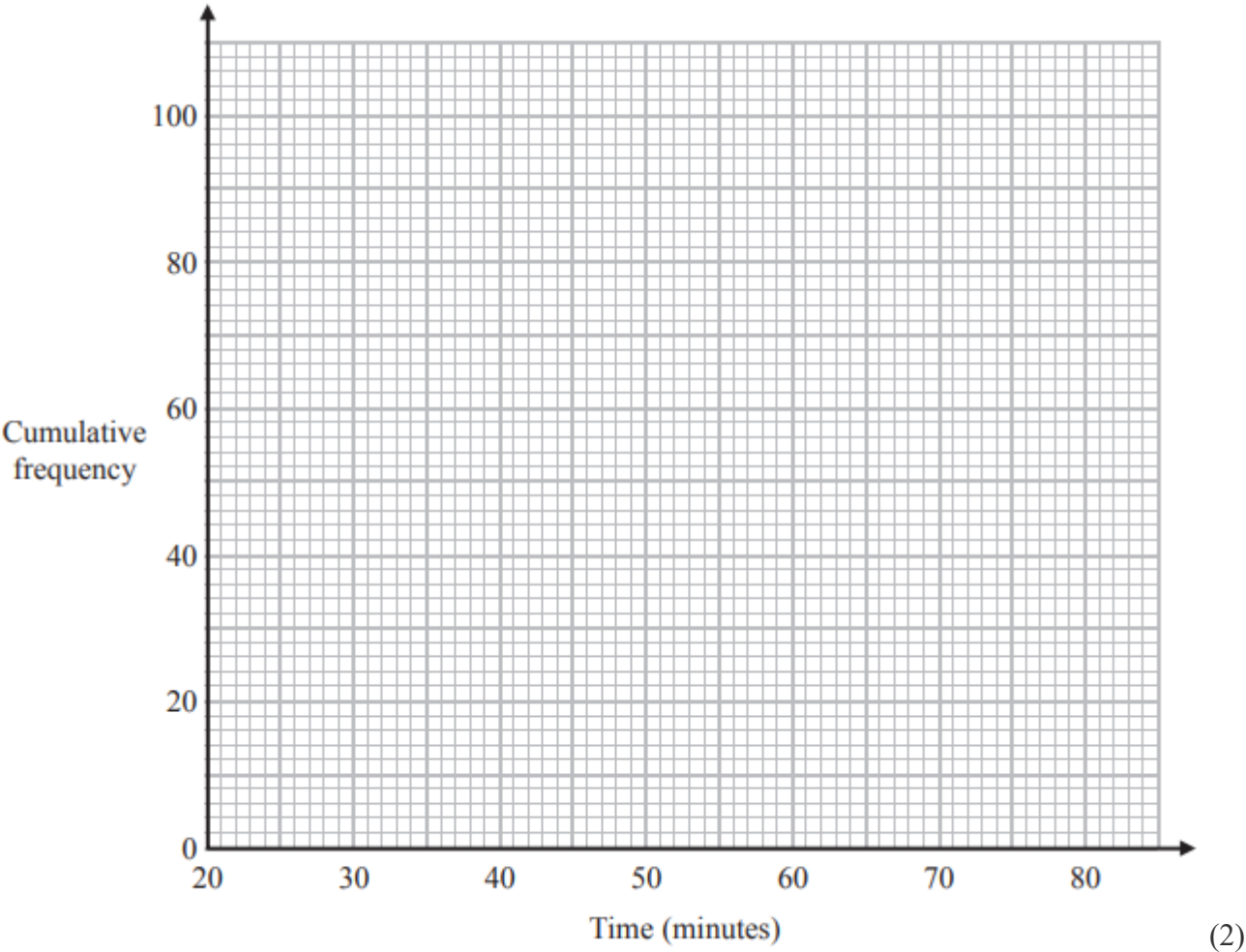


(Total for question 3 is 5 marks)

4 The frequency table shows the time taken for 100 people to travel to an event.

Time (minutes)	Frequency
$20 < t \leq 30$	9
$30 < t \leq 40$	16
$40 < t \leq 50$	20
$50 < t \leq 60$	29
$60 < t \leq 70$	15
$70 < t \leq 80$	11

(a) On the grid, plot a cumulative frequency graph for this information.



(b) Find an estimate for the median time taken.

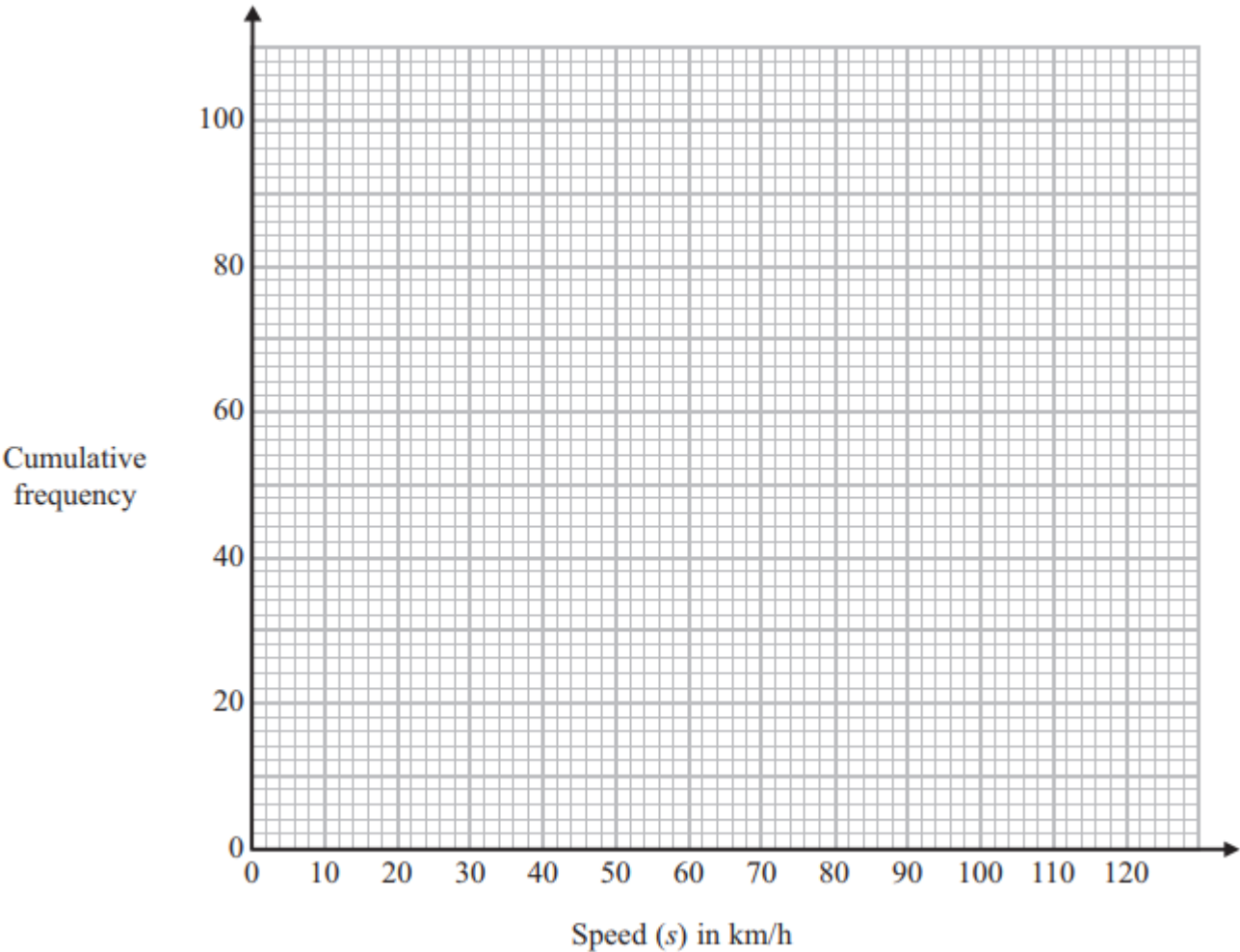
.....minutes
(1)

(Total for question 4 is 3 marks)

5 The frequency table shows the speeds of 100 cars.

Speed (km/h)	Frequency
$0 < s \leq 20$	6
$20 < s \leq 40$	17
$40 < s \leq 60$	29
$60 < s \leq 80$	25
$80 < s \leq 100$	20
$100 < s \leq 120$	3

(a) On the grid, plot a cumulative frequency graph for this information.

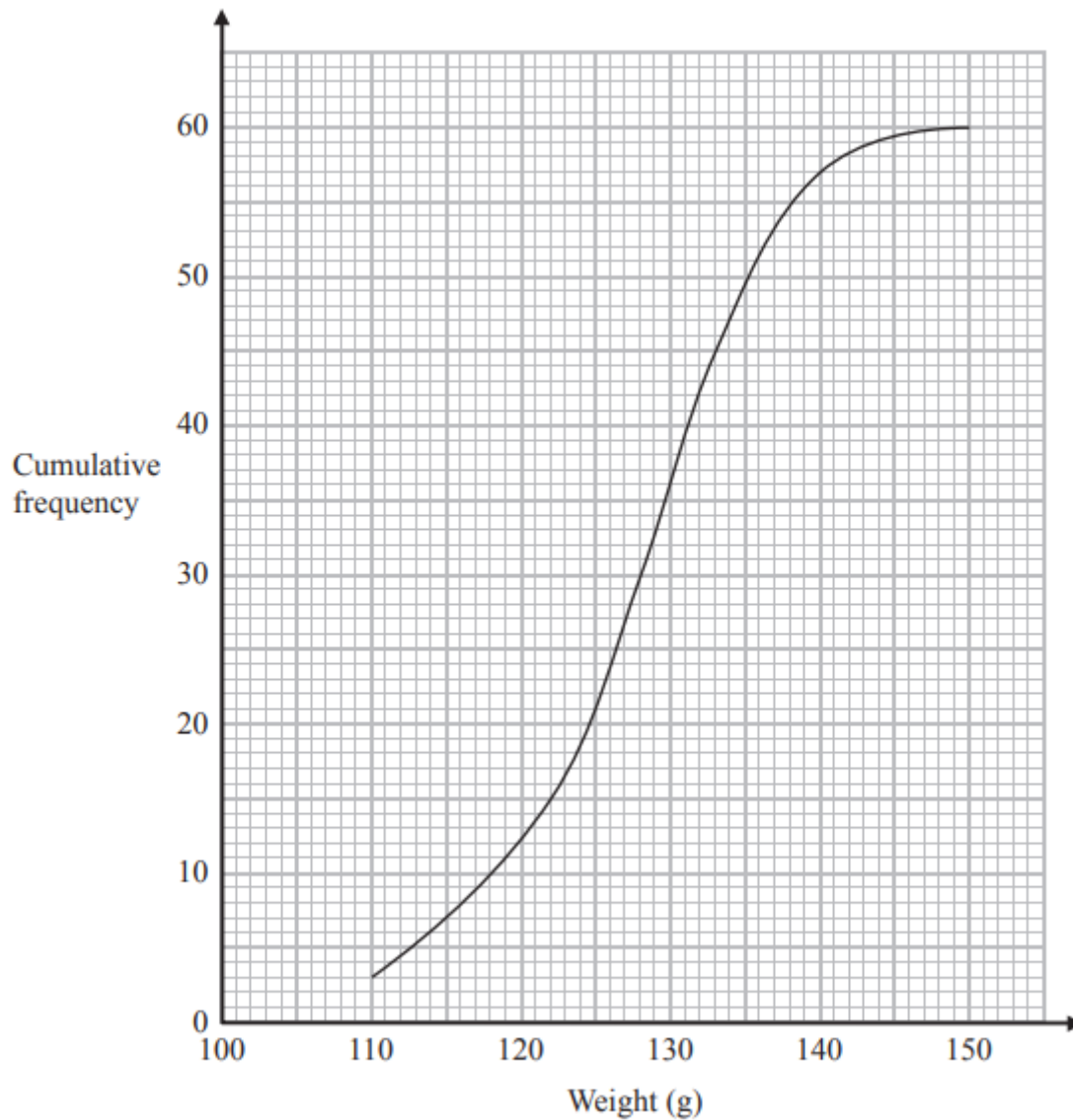


(b) Find an estimate for the number of cars travelling over 90 km/h. (2)

.....
(1)

(Total for question 5 is 3 marks)

- 6 The cumulative frequency graph gives some information about the weights of some objects.



(a) Find the median weight.

(b) Find the inter quartile range.

.....g
(1)

.....g
(2)

(Total for question 6 is 3 marks)