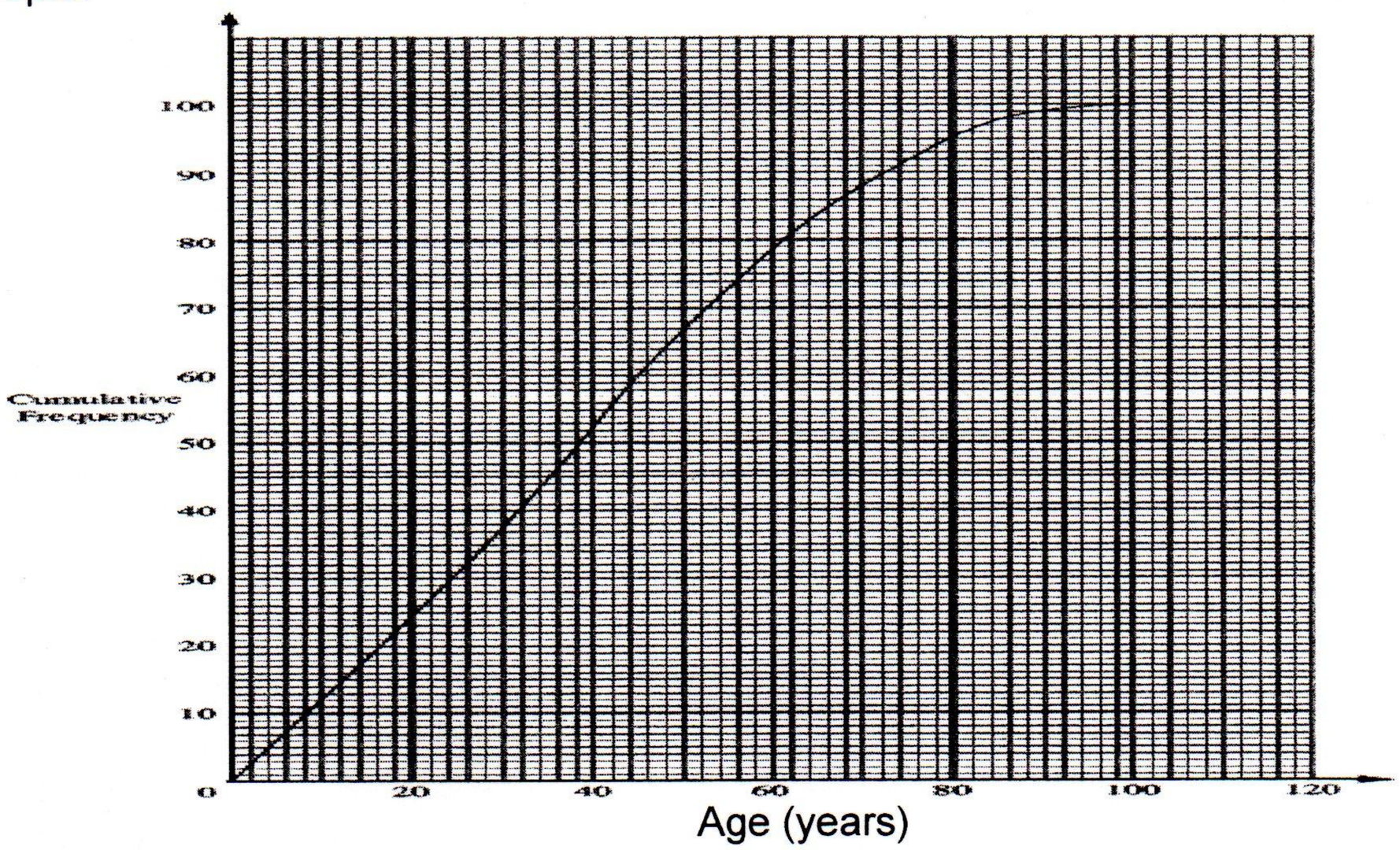
Cumulative frequency

The cumulative frequency graph shows some information about the ages of 100 people.



(a) Use the graph to find an estimate for the number of these people less than 70 years of age.

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(b) Use the graph to find an estimate for the median age.

..... years

(c) Use the graph to find an estimate for the interquartile range of the ages.

..... years

2) An operator took 100 calls at a call centre.
The table gives information about the time (*t* seconds) it took the operator to answer each call.

Time (*t* seconds)	**Frequency**
$0 < t$ 10	16
$10 < t$ 20	34
$20 < t$ 30	32
$30 < t$ 40	14
$40 < t$ 50	4

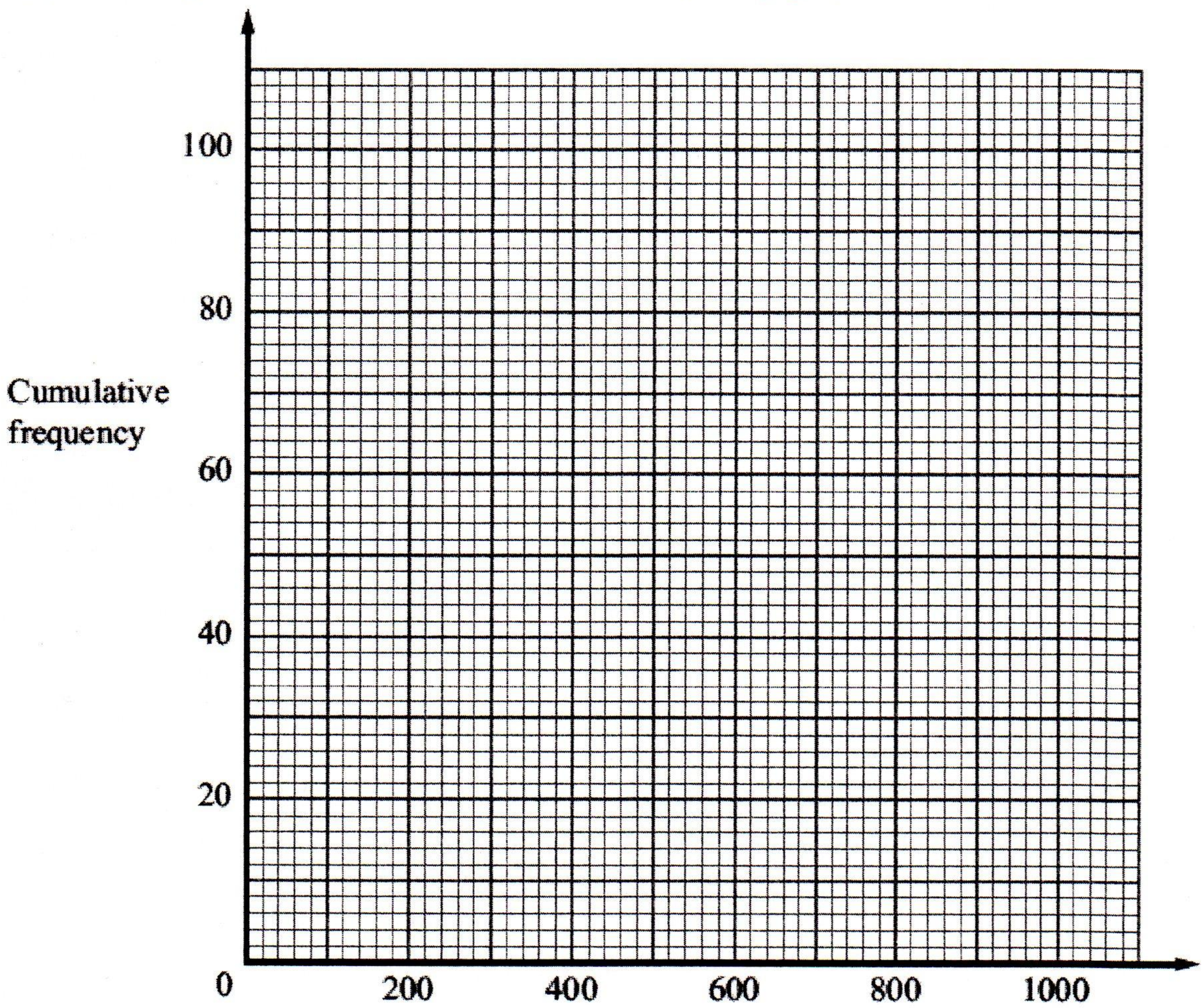
(a) Complete the cumulative frequency table.

Time (*t* seconds)	**Cumulative frequency**
$0 < t < 10$	16
$0 < t < 20$	
$0 < t < 30$	
$0 < t < 40$	
$0 < t < 50$	

3) The **cumulative frequency** table shows information about the prices, in £, of 100 televisions.

Price (£n)	Cumulative frequency
$0 < n \leqslant 200$	5
$0 < n \leqslant 400$	20
$0 < n \leqslant 600$	40
$0 < n \leqslant 800$	75
$0 < n \leqslant 1000$	100

(a) On the grid below, draw a cumulative frequency graph for the table.



b) Use your graph to find an estimate for the median price of these televisions.

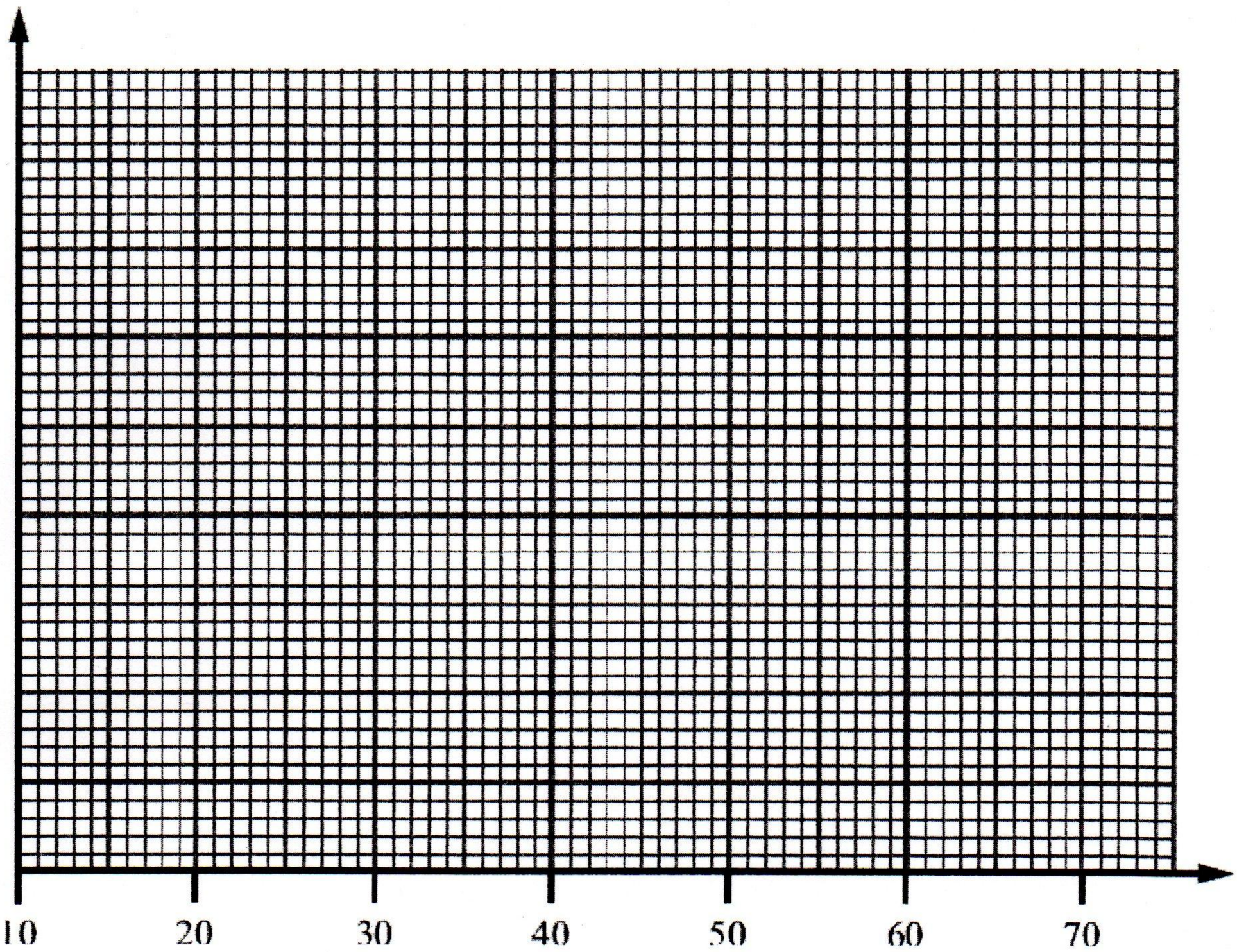
£ .....

4) The table below shows the distribution of ages of passengers traveling on a plane from London to Manchester.

Age(x years)	Frequency
0 < x <20	13
20<x<35	17
35<x<45	12
45<x<65	8

Find cumulative frequency and draw a cumulative frequency curve on the graph to show the distribution .

Find the median, lower quartile, upper quartile and inter –Quartile range using this



Median : _____ Lower quartile : _____

Upper quartile : _____ Inter quartile range : _____