

10.



The table gives the grouped frequency distribution for the lengths of the electrical cords of 80 toasters.

Length, to the nearest cm	49-53	54-58	59-63	64-68
Number of toasters	6	38	32	4

(a) Complete the following cumulative frequency table.

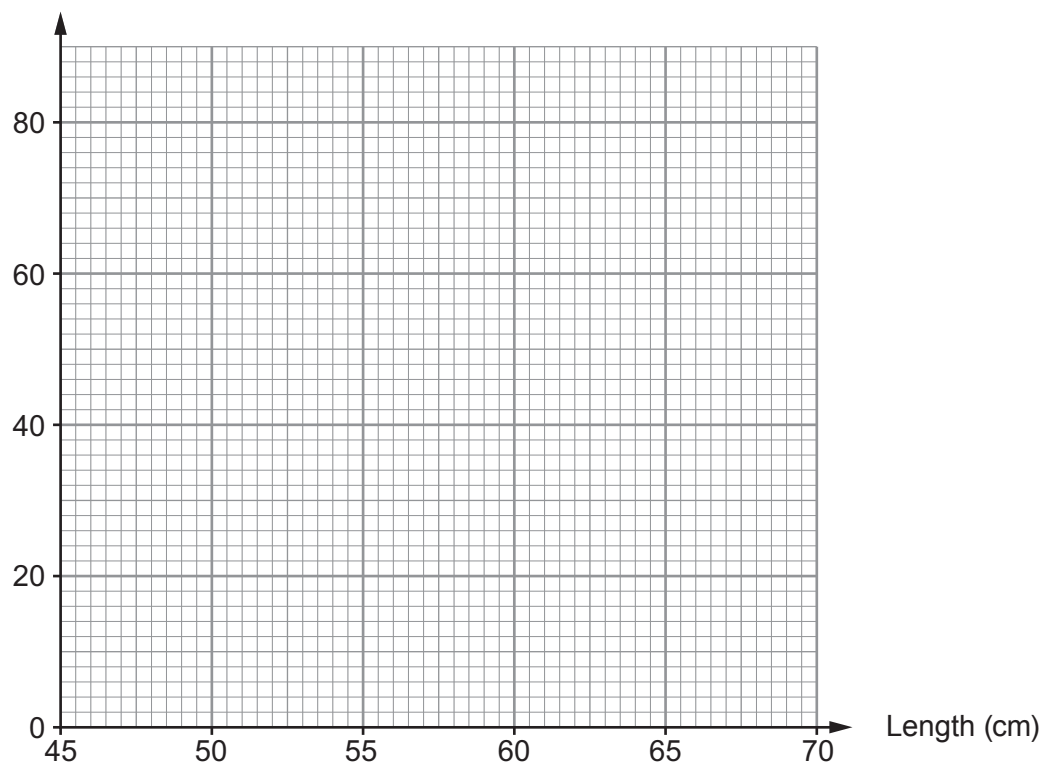
[1]

Length (cm)	<48.5	<53.5	<58.5	<63.5	<68.5
Cumulative frequency	0	6			

(b) On the graph paper below, draw a cumulative frequency diagram to show this information.

[2]

Cumulative frequency



- (c) Use your cumulative frequency diagram to find an estimate for the median, the lower quartile, the upper quartile and the interquartile range of the lengths of the electrical cords in centimetres. [4]

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Median	
Lower quartile	
Upper quartile	
Interquartile range	

- (d) The length of the shortest electrical cord is 50 cm.  
The length of the longest electrical cord is 68 cm.  
Draw a box and whisker diagram to illustrate the lengths of the electrical cords. [3]

