

11. The table gives a grouped frequency distribution for the lengths, each measured to the nearest millimetre, of 80 earthworms.

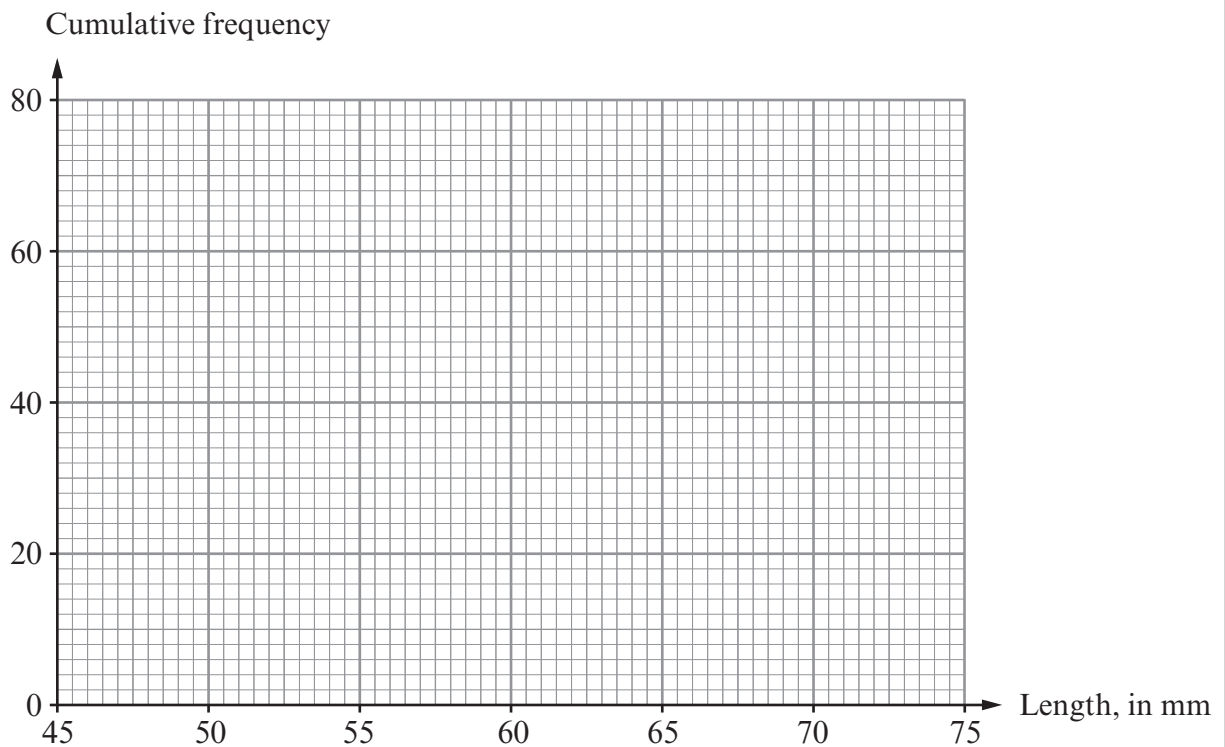
Length, to the nearest mm	47-53	54-60	61-67	68-74
Number of earthworms	10	18	40	12

- (a) Complete the following cumulative frequency table.

Length, mm	< 46.5	< 53.5	< 60.5	< 67.5	< 74.5
Cumulative frequency	0	10			

[1]

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



[2]

- (c) Use your cumulative frequency diagram to find an estimate for the median and the interquartile range.
You **must** show your working.

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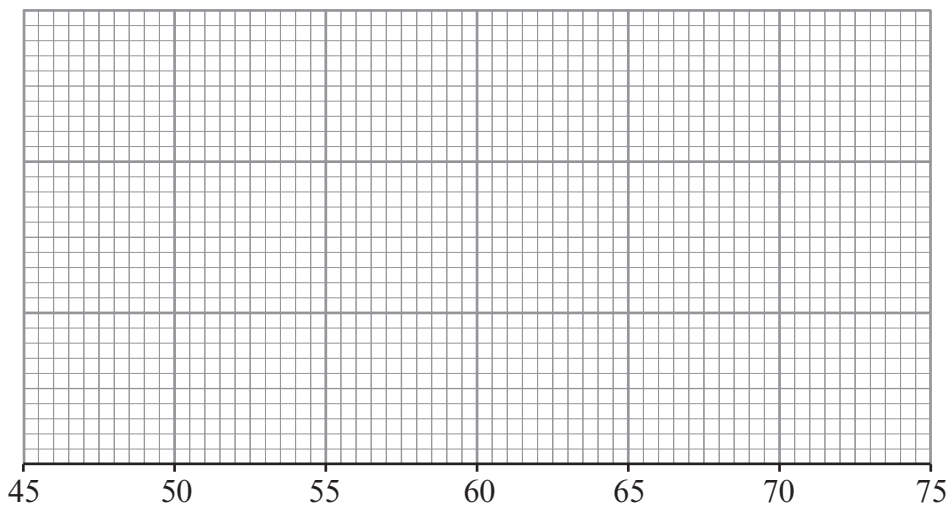
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Median Interquartile range

[3]

- (d) Draw a box and whisker diagram to illustrate this information.



[4]