

1. **Nov/2022/Paper_9709_51/No.3**

The Lions and the Tigers are two basketball clubs. The heights, in cm, of the 11 players in each of their first team squads are given in the table.

Lions	178	186	181	187	179	190	189	190	180	169	196
Tigers	194	179	187	190	183	201	184	180	195	191	197

- (a) Draw a back-to-back stem-and-leaf diagram to represent this information, with the Lions on the left. [4]

- (b) Find the median and the interquartile range of the heights of the Lions first team squad. [3]

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It is given that for the Tigers, the lower quartile is 183 cm, the median is 190 cm and the upper quartile is 195 cm.

- (c) Make two comparisons between the heights of the players in the Lions first team squad and the heights of the players in the Tigers first team squad. [2]

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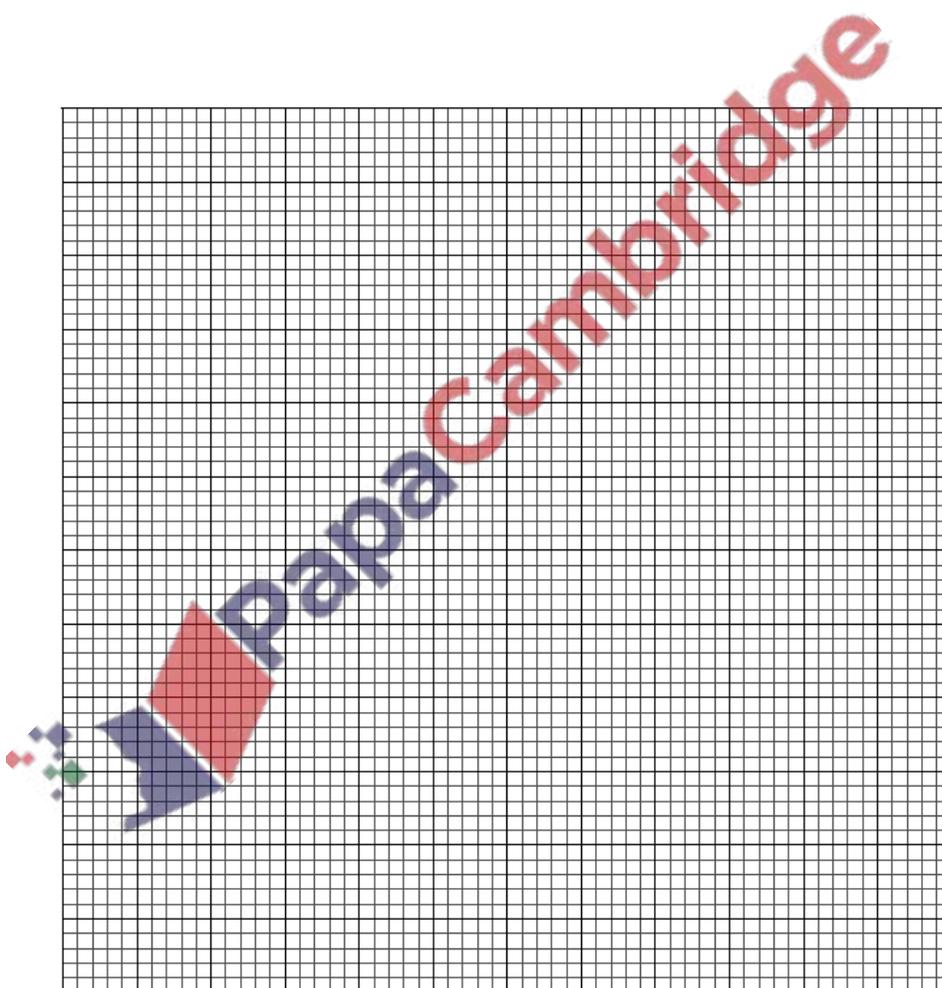
2. Nov/2022/Paper_9709_52/No.4

The times taken, in minutes, to complete a word processing task by 250 employees at a particular company are summarised in the table.

Time taken (t minutes)	$0 \leq t < 20$	$20 \leq t < 40$	$40 \leq t < 50$	$50 \leq t < 60$	$60 \leq t < 100$
Frequency	32	46	96	52	24

(a) Draw a histogram to represent this information.

[4]

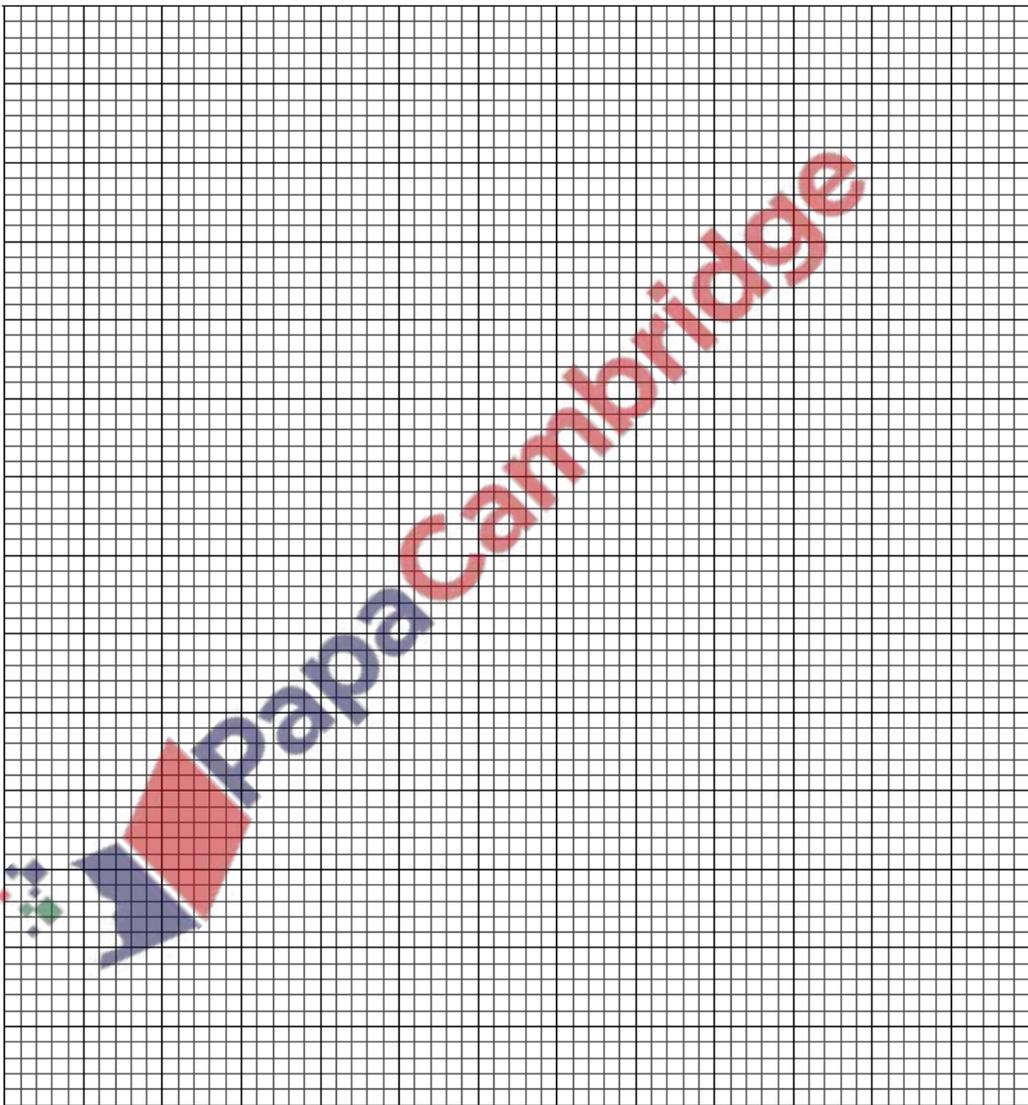


The times, t minutes, taken to complete a walking challenge by 250 members of a club are summarised in the table.

Time taken (t minutes)	$t \leq 20$	$t \leq 30$	$t \leq 35$	$t \leq 40$	$t \leq 50$	$t \leq 60$
Cumulative frequency	32	66	112	178	228	250

(a) Draw a cumulative frequency graph to illustrate the data.

[2]



(b) Use your graph to estimate the 60th percentile of the data.

[1]

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