

- 2 The following back-to-back stem-and-leaf diagram shows the reaction times in seconds in an experiment involving two groups of people, *A* and *B*.

	<i>A</i>			<i>B</i>	
(4)	4 2 0 0	20		5 6 7	(3)
(5)	9 8 5 0 0	21		1 2 2 3 7 7	(6)
(8)	9 8 7 5 3 2 2 2	22		1 3 5 6 6 8 9	(7)
(6)	8 7 6 5 2 1	23		4 5 7 8 8 9 9 9	(8)
(3)	8 6 3	24		2 4 5 6 7 8 8	(7)
(1)	0	25		0 2 7 8	(4)

Key: 5 | 22 | 6 means a reaction time of 0.225 seconds for *A* and 0.226 seconds for *B*

- (i) Find the median and the interquartile range for group *A*. [3]

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The median value for group *B* is 0.235 seconds, the lower quartile is 0.217 seconds and the upper quartile is 0.245 seconds.

- (ii) Draw box-and-whisker plots for groups *A* and *B* on the grid. [3]

