

- 7 The times in minutes taken by 13 pupils at each of two schools in a cross-country race are recorded in the table below.

Thaters School	38	43	48	52	54	56	57	58	58	61	62	66	75
Whitefay Park School	45	47	53	56	56	61	64	66	69	73	75	78	83

- (i) Draw a back-to-back stem-and-leaf diagram to illustrate these times with Thaters School on the left. [4]

- (ii) Find the interquartile range of the times for pupils at Thaters School. [2]

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The times taken by pupils at Whitefay Park School are denoted by  $x$  minutes.

- (iii) Find the value of  $\Sigma(x - 60)^2$ . [2]

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- (iv) It is given that  $\Sigma(x - 60) = 46$ . Use this result, together with your answer to part (iii), to find the variance of  $x$ . [2]

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