

- 1** Kadijat noted the weights, x grams, of 30 chocolate buns. Her results are summarised by

$$\Sigma(x-k) = 315, \quad \Sigma(x-k)^2 = 4022,$$

where k is a constant. The mean weight of the buns is 50.5 grams.

- (i) Find the value of k .

[2]

[illegible]

- (ii) Find the standard deviation of x .

[2]

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