



2 The heights,  $h$ , to the nearest centimetre, of 10 students are summarised below.

$$\sum h = 1776 \quad S_{hh} = 236.4$$

(a) Work out the mean ( $\bar{h}$ ) and standard deviation ( $\sigma_h$ ) (3)

The data is coded using the formula  $c = h - 165$

(b) Work out the mean ( $\bar{c}$ ) and standard deviation ( $\sigma_c$ ) for the coded values. (2)

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(Total for Question 2 is 5 marks)

3 The masses,  $x$ , to the nearest kg, of 8 cows are summarised below.

$$\sum x = 4120 \quad \sum x^2 = 2\,121\,856$$

(a) Work out the mean ( $\bar{x}$ ) and standard deviation ( $\sigma_x$ ) (3)

The data is coded using the formula  $y = \frac{x}{5} - 100$

(b) Work out the mean ( $\bar{y}$ ) and standard deviation ( $\sigma_y$ ) for the coded values. (2)

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(Total for Question 2 is 5 marks)





