

A meteorologist believes that there is a relationship between the height above sea level,  $h$  m, and the air temperature,  $t^{\circ}\text{C}$ . Data is collected at the same time from 9 different places on the same mountain. The data is summarised in the table below.

|     |      |      |     |     |     |     |      |     |     |
|-----|------|------|-----|-----|-----|-----|------|-----|-----|
| $h$ | 1400 | 1100 | 260 | 840 | 900 | 550 | 1230 | 100 | 770 |
| $t$ | 3    | 10   | 20  | 9   | 10  | 13  | 5    | 24  | 16  |

[You may assume that  $\sum h = 7150$ ,  $\sum t = 110$ ,  $\sum h^2 = 7\,171\,500$ ,  $\sum t^2 = 1716$ ,  $\sum th = 64\,980$  and  $S_r = 371.56$ ]

- (a) Calculate  $S_{th}$  and  $S_{hh}$ . Give your answers to 3 significant figures.

(3)
- (b) Calculate the product moment correlation coefficient for this data.

(2)
- (c) State whether or not your value supports the use of a regression equation to predict the air temperature at different heights on this mountain. Give a reason for your answer.

(1)
- (d) Find the equation of the regression line of  $t$  on  $h$  giving your answer in the form  $t = a + bh$ .

(4)
- (e) Interpret the value of  $b$ .

(1)
- (f) Estimate the difference in air temperature between a height of 500m and a height of 1000 m.

(2)

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