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

11	1400	1100	260	840	900	550	1230	100	770
t	3	10	20	9	10	13	5	24	16

[You may assume that 
$$\sum h = 7150$$
,  $\sum t = 110$ ,  $\sum h^2 = 7171500$ ,  $\sum t^2 = 1716$ ,  $\sum th = 64980$  and  $S_n = 371.56$ ]

- (a) Calculate S<sub>sh</sub> and S<sub>hh</sub>. Give your answers to 3 significant figures.
- (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.
- (e) Interpret the value of b.
- (f) Estimate the difference in air temperature between a height of 500m and a height of 1000 m.

(4)

(1)

(3)

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