

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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Roman Wölfel



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