

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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Table of Contents June 2013 S1 Markscheme

1. Understanding the eBook June 2013 S1 Markscheme
 - The Rise of Digital Reading June 2013 S1 Markscheme
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 S1 Markscheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an June 2013 S1 Markscheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 S1 Markscheme
 - Personalized Recommendations
 - June 2013 S1 Markscheme User Reviews and Ratings
 - June 2013 S1 Markscheme and Bestseller Lists
5. Accessing June 2013 S1 Markscheme Free and Paid eBooks
 - June 2013 S1 Markscheme Public Domain eBooks
 - June 2013 S1 Markscheme eBook Subscription Services

- June 2013 S1 Markscheme Budget-Friendly Options
- 6. Navigating June 2013 S1 Markscheme eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2013 S1 Markscheme Compatibility with Devices
 - June 2013 S1 Markscheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 S1 Markscheme
 - Highlighting and Note-Taking June 2013 S1 Markscheme
 - Interactive Elements June 2013 S1 Markscheme
- 8. Staying Engaged with June 2013 S1 Markscheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2013 S1 Markscheme
- 9. Balancing eBooks and Physical Books June 2013 S1 Markscheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 S1 Markscheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine June 2013 S1 Markscheme
 - Setting Reading Goals June 2013 S1 Markscheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June 2013 S1 Markscheme
 - Fact-Checking eBook Content of June 2013 S1 Markscheme
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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