

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  $S_r = 371.56$ ]

- Calculate  $S_{th}$  and  $S_{hh}$ . Give your answers to 3 significant figures. (3)
- Calculate the product moment correlation coefficient for this data. (2)
- 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)
- Find the equation of the regression line of  $t$  on  $h$  giving your answer in the form  $t = a + bh$ . (4)
- Interpret the value of  $b$ . (1)
- Estimate the difference in air temperature between a height of 500m and a height of 1000 m. (2)

# June 2013 S1 Paper

**Dirk Lanzerath, Minou Friele**



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## **Table of Contents June 2013 S1 Paper**

1. Understanding the eBook June 2013 S1 Paper
  - The Rise of Digital Reading June 2013 S1 Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 S1 Paper
  - 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 Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 S1 Paper
  - Personalized Recommendations
  - June 2013 S1 Paper User Reviews and Ratings
  - June 2013 S1 Paper and Bestseller Lists
5. Accessing June 2013 S1 Paper Free and Paid eBooks
  - June 2013 S1 Paper Public Domain eBooks
  - June 2013 S1 Paper eBook Subscription Services
  - June 2013 S1 Paper Budget-Friendly Options
6. Navigating June 2013 S1 Paper eBook Formats

- ePub, PDF, MOBI, and More
- June 2013 S1 Paper Compatibility with Devices
- June 2013 S1 Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of June 2013 S1 Paper
  - Highlighting and Note-Taking June 2013 S1 Paper
  - Interactive Elements June 2013 S1 Paper
- 8. Staying Engaged with June 2013 S1 Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers June 2013 S1 Paper
- 9. Balancing eBooks and Physical Books June 2013 S1 Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection June 2013 S1 Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine June 2013 S1 Paper
  - Setting Reading Goals June 2013 S1 Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June 2013 S1 Paper
  - Fact-Checking eBook Content of June 2013 S1 Paper
  - 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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