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.

1,2	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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# Table of Contents June 2013 S1 Paper Edexcel

- 1. Understanding the eBook June 2013 S1 Paper Edexcel
  - The Rise of Digital Reading June 2013 S1 Paper Edexcel
  - Advantages of eBooks Over Traditional Books
- 2. Identifying June 2013 S1 Paper Edexcel
  - 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 Edexcel
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from June 2013 S1 Paper Edexcel
  - Personalized Recommendations
  - June 2013 S1 Paper Edexcel User Reviews and Ratings
  - June 2013 S1 Paper Edexcel and Bestseller Lists
- 5. Accessing June 2013 S1 Paper Edexcel Free and Paid eBooks

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