



## Mathematics: applications and interpretation

### Practice paper 1 SL

Total: 80 marks

1.

[Maximum mark: 5]

A school consists of 740 students divided into 5 grade levels. The numbers of students in each grade are shown in the table below.

Grade	8	9	10	11	12
Number of students	120	125	119	195	181

The Principal of the school wishes to select a sample of 25 students. She wishes to ensure that, as closely as possible, the proportion of the students from each grade in the sample is the same as the proportions in the school.

(a) Calculate the number of grade 12 students who should be in the sample. [3]

The Principal selects the students for the sample by asking those who took part in a previous survey if they would like to take part in another. She takes the first of those who reply positively, up to the maximum needed for the sample.

(b) State which two of the sampling methods listed below best describe the method used. [2]

Stratified      Quota      Convenience      Systematic      Simple random

2.

[Maximum mark: 5]

A factory produces engraved gold disks. The cost  $C$  of the disks is directly proportional to the cube of the radius  $r$  of the disk.

A disk with a radius of 0.8 cm costs 375 US dollars (USD).

(a) Find an equation which links  $C$  and  $r$ . [3]

(b) Find, to the nearest USD, the cost of disk that has a radius of 1.1 cm. [2]

## Paper 2 Maths Sl Ib 2011

**Lingsheng Yao**

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## **Table of Contents Paper 2 Maths Sl Ib 2011**

1. Understanding the eBook Paper 2 Maths Sl Ib 2011
  - The Rise of Digital Reading Paper 2 Maths Sl Ib 2011
  - Advantages of eBooks Over Traditional Books
2. Identifying Paper 2 Maths Sl Ib 2011
  - 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 Paper 2 Maths Sl Ib 2011
  - User-Friendly Interface
4. Exploring eBook Recommendations from Paper 2 Maths Sl Ib 2011
  - Personalized Recommendations
  - Paper 2 Maths Sl Ib 2011 User Reviews and Ratings
  - Paper 2 Maths Sl Ib 2011 and Bestseller Lists
5. Accessing Paper 2 Maths Sl Ib 2011 Free and Paid eBooks
  - Paper 2 Maths Sl Ib 2011 Public Domain eBooks
  - Paper 2 Maths Sl Ib 2011 eBook Subscription Services
  - Paper 2 Maths Sl Ib 2011 Budget-Friendly Options
6. Navigating Paper 2 Maths Sl Ib 2011 eBook Formats

- ePub, PDF, MOBI, and More
- Paper 2 Maths Sl Ib 2011 Compatibility with Devices
- Paper 2 Maths Sl Ib 2011 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Paper 2 Maths Sl Ib 2011
- Highlighting and Note-Taking Paper 2 Maths Sl Ib 2011
- Interactive Elements Paper 2 Maths Sl Ib 2011

8. Staying Engaged with Paper 2 Maths Sl Ib 2011

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Paper 2 Maths Sl Ib 2011

9. Balancing eBooks and Physical Books Paper 2 Maths Sl Ib 2011

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Paper 2 Maths Sl Ib 2011

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Paper 2 Maths Sl Ib 2011

- Setting Reading Goals Paper 2 Maths Sl Ib 2011
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Paper 2 Maths Sl Ib 2011

- Fact-Checking eBook Content of Paper 2 Maths Sl Ib 2011
- 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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