



## 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]

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**Yijin Wang**



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## **Table of Contents Ib Math Sl November 2012 Paper 1 Mark Scheme**

1. Understanding the eBook Ib Math Sl November 2012 Paper 1 Mark Scheme
  - The Rise of Digital Reading Ib Math Sl November 2012 Paper 1 Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math Sl November 2012 Paper 1 Mark Scheme
  - 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 Ib Math Sl November 2012 Paper 1 Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math Sl November 2012 Paper 1 Mark Scheme
  - Personalized Recommendations
  - Ib Math Sl November 2012 Paper 1 Mark Scheme User Reviews and Ratings
  - Ib Math Sl November 2012 Paper 1 Mark Scheme and Bestseller Lists
5. Accessing Ib Math Sl November 2012 Paper 1 Mark Scheme Free and Paid eBooks
  - Ib Math Sl November 2012 Paper 1 Mark Scheme Public Domain eBooks
  - Ib Math Sl November 2012 Paper 1 Mark Scheme eBook Subscription Services

- Ib Math SL November 2012 Paper 1 Mark Scheme Budget-Friendly Options
- 6. Navigating Ib Math SL November 2012 Paper 1 Mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - Ib Math SL November 2012 Paper 1 Mark Scheme Compatibility with Devices
  - Ib Math SL November 2012 Paper 1 Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ib Math SL November 2012 Paper 1 Mark Scheme
  - Highlighting and Note-Taking Ib Math SL November 2012 Paper 1 Mark Scheme
  - Interactive Elements Ib Math SL November 2012 Paper 1 Mark Scheme
- 8. Staying Engaged with Ib Math SL November 2012 Paper 1 Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Math SL November 2012 Paper 1 Mark Scheme
- 9. Balancing eBooks and Physical Books Ib Math SL November 2012 Paper 1 Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Math SL November 2012 Paper 1 Mark Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Math SL November 2012 Paper 1 Mark Scheme
  - Setting Reading Goals Ib Math SL November 2012 Paper 1 Mark Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Math SL November 2012 Paper 1 Mark Scheme
  - Fact-Checking eBook Content of Ib Math SL November 2012 Paper 1 Mark Scheme
  - 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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