



## 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]

# Ib Math Sl Specimen Paper 2005

**Santroek**



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## **Table of Contents Ib Math Sl Specimen Paper 2005**

1. Understanding the eBook Ib Math Sl Specimen Paper 2005
  - The Rise of Digital Reading Ib Math Sl Specimen Paper 2005
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math Sl Specimen Paper 2005
  - 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 Specimen Paper 2005
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math Sl Specimen Paper 2005
  - Personalized Recommendations
  - Ib Math Sl Specimen Paper 2005 User Reviews and Ratings
  - Ib Math Sl Specimen Paper 2005 and Bestseller Lists
5. Accessing Ib Math Sl Specimen Paper 2005 Free and Paid eBooks
  - Ib Math Sl Specimen Paper 2005 Public Domain eBooks
  - Ib Math Sl Specimen Paper 2005 eBook Subscription Services
  - Ib Math Sl Specimen Paper 2005 Budget-Friendly Options
6. Navigating Ib Math Sl Specimen Paper 2005 eBook Formats

- ePub, PDF, MOBI, and More
  - Ib Math SL Specimen Paper 2005 Compatibility with Devices
  - Ib Math SL Specimen Paper 2005 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Ib Math SL Specimen Paper 2005
    - Highlighting and Note-Taking Ib Math SL Specimen Paper 2005
    - Interactive Elements Ib Math SL Specimen Paper 2005
  8. Staying Engaged with Ib Math SL Specimen Paper 2005
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Ib Math SL Specimen Paper 2005
  9. Balancing eBooks and Physical Books Ib Math SL Specimen Paper 2005
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Ib Math SL Specimen Paper 2005
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Ib Math SL Specimen Paper 2005
    - Setting Reading Goals Ib Math SL Specimen Paper 2005
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Ib Math SL Specimen Paper 2005
    - Fact-Checking eBook Content of Ib Math SL Specimen Paper 2005
    - 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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