



## 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]

# Maths Sl Ib Past Papers 23

**Michael Rajnik**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Maths Sl Ib Past Papers 23**

1. Understanding the eBook Maths Sl Ib Past Papers 23
  - The Rise of Digital Reading Maths Sl Ib Past Papers 23
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Sl Ib Past Papers 23
  - 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 Maths Sl Ib Past Papers 23
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Sl Ib Past Papers 23
  - Personalized Recommendations
  - Maths Sl Ib Past Papers 23 User Reviews and Ratings
  - Maths Sl Ib Past Papers 23 and Bestseller Lists
5. Accessing Maths Sl Ib Past Papers 23 Free and Paid eBooks
  - Maths Sl Ib Past Papers 23 Public Domain eBooks
  - Maths Sl Ib Past Papers 23 eBook Subscription Services
  - Maths Sl Ib Past Papers 23 Budget-Friendly Options
6. Navigating Maths Sl Ib Past Papers 23 eBook Formats

- ePub, PDF, MOBI, and More
  - Maths Sl Ib Past Papers 23 Compatibility with Devices
  - Maths Sl Ib Past Papers 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Maths Sl Ib Past Papers 23
    - Highlighting and Note-Taking Maths Sl Ib Past Papers 23
    - Interactive Elements Maths Sl Ib Past Papers 23
  8. Staying Engaged with Maths Sl Ib Past Papers 23
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Maths Sl Ib Past Papers 23
  9. Balancing eBooks and Physical Books Maths Sl Ib Past Papers 23
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Maths Sl Ib Past Papers 23
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Maths Sl Ib Past Papers 23
    - Setting Reading Goals Maths Sl Ib Past Papers 23
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Maths Sl Ib Past Papers 23
    - Fact-Checking eBook Content of Maths Sl Ib Past Papers 23
    - 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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