



## 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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**D Kirk**



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## **Table of Contents Maths Studies Specimen Paper For Ib 2014**

1. Understanding the eBook Maths Studies Specimen Paper For Ib 2014
  - The Rise of Digital Reading Maths Studies Specimen Paper For Ib 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Studies Specimen Paper For Ib 2014
  - 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 Studies Specimen Paper For Ib 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Studies Specimen Paper For Ib 2014

- Personalized Recommendations
  - Maths Studies Specimen Paper For Ib 2014 User Reviews and Ratings
  - Maths Studies Specimen Paper For Ib 2014 and Bestseller Lists
5. Accessing Maths Studies Specimen Paper For Ib 2014 Free and Paid eBooks
- Maths Studies Specimen Paper For Ib 2014 Public Domain eBooks
  - Maths Studies Specimen Paper For Ib 2014 eBook Subscription Services
  - Maths Studies Specimen Paper For Ib 2014 Budget-Friendly Options
6. Navigating Maths Studies Specimen Paper For Ib 2014 eBook Formats
- ePub, PDF, MOBI, and More
  - Maths Studies Specimen Paper For Ib 2014 Compatibility with Devices
  - Maths Studies Specimen Paper For Ib 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Maths Studies Specimen Paper For Ib 2014
  - Highlighting and Note-Taking Maths Studies Specimen Paper For Ib 2014
  - Interactive Elements Maths Studies Specimen Paper For Ib 2014
8. Staying Engaged with Maths Studies Specimen Paper For Ib 2014
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths Studies Specimen Paper For Ib 2014
9. Balancing eBooks and Physical Books Maths Studies Specimen Paper For Ib 2014
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Studies Specimen Paper For Ib 2014
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Maths Studies Specimen Paper For Ib 2014
- Setting Reading Goals Maths Studies Specimen Paper For Ib 2014
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Studies Specimen Paper For Ib 2014

- Fact-Checking eBook Content of Maths Studies Specimen Paper For Ib 2014
- 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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