



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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Table of Contents Ib Maths Sl Past Paper

1. Understanding the eBook Ib Maths Sl Past Paper
 - The Rise of Digital Reading Ib Maths Sl Past Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Maths Sl Past Paper
 - 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 Maths Sl Past Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Maths Sl Past Paper
 - Personalized Recommendations
 - Ib Maths Sl Past Paper User Reviews and Ratings
 - Ib Maths Sl Past Paper and Bestseller Lists
5. Accessing Ib Maths Sl Past Paper Free and Paid eBooks

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