



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 Math Paper

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

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