



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]

Mathematics SI Paper Tzm08

AW Rasmussen



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Table of Contents Mathematics Sl Paper Tzm08

1. Understanding the eBook Mathematics Sl Paper Tzm08
 - The Rise of Digital Reading Mathematics Sl Paper Tzm08
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Sl Paper Tzm08
 - 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 Mathematics Sl Paper Tzm08
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Sl Paper Tzm08
 - Personalized Recommendations
 - Mathematics Sl Paper Tzm08 User Reviews and Ratings
 - Mathematics Sl Paper Tzm08 and Bestseller Lists

5. Accessing Mathematics SL Paper Tzm08 Free and Paid eBooks
 - Mathematics SL Paper Tzm08 Public Domain eBooks
 - Mathematics SL Paper Tzm08 eBook Subscription Services
 - Mathematics SL Paper Tzm08 Budget-Friendly Options
6. Navigating Mathematics SL Paper Tzm08 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics SL Paper Tzm08 Compatibility with Devices
 - Mathematics SL Paper Tzm08 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics SL Paper Tzm08
 - Highlighting and Note-Taking Mathematics SL Paper Tzm08
 - Interactive Elements Mathematics SL Paper Tzm08
8. Staying Engaged with Mathematics SL Paper Tzm08
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics SL Paper Tzm08
9. Balancing eBooks and Physical Books Mathematics SL Paper Tzm08
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics SL Paper Tzm08
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics SL Paper Tzm08
 - Setting Reading Goals Mathematics SL Paper Tzm08
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics SL Paper Tzm08
 - Fact-Checking eBook Content of Mathematics SL Paper Tzm08
 - 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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