



## 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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**Albert A Gayle**



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### **Table of Contents Ib Sample Papers**

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

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