



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]

Ib Sl Math Paper 1

G Psacharopoulos



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IB World Schools Yearbook 2011 Wendy Bosberry-Scott, 2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate Organization

Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs

Mathematical Reviews, 2008

Index of Mathematical Papers, 1985

Quarterly Journal of Pure and Applied Mathematics James Joseph Sylvester, James Whitbread Lee Glaisher, 1915

Reviews in Number Theory, 1984-96, 1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in *Mathematical Reviews* between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984

Kac-Moody and Virasoro Algebras Peter Goddard, David Olive, 1988 This volume reviews the subject of Kac Moody and Virasoro Algebras It serves as a reference book for physicists with commentary notes and reprints

Reviews in Complex Analysis, 1980-1986, 1989

Proceedings American Society for Engineering Education. Conference, 1986

Dictionary Catalog of the Oriental Collection New York Public Library. Research Libraries, New York Public Library. Reference Department, 1976

Reviews in Complex Analysis, 1980-86, 1989

PC Mag, 1990-09-25 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology

Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews, 1988

Proceedings American Society for Engineering Education, 1986

Physics Letters, 1996

Allgemeines englisch-deutsches und deutsch-englisches Wörterbuch Johann Gottfried Flügel, 1894

Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 New York Public Library. Research Libraries, 1979

National Stockman and Farmer, 1894

Norsk John Brynildsen, 1892

The Michigan Mathematical Journal, 1984

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

5. Accessing Ib Sl Math Paper 1 Free and Paid eBooks
 - Ib Sl Math Paper 1 Public Domain eBooks
 - Ib Sl Math Paper 1 eBook Subscription Services
 - Ib Sl Math Paper 1 Budget-Friendly Options
6. Navigating Ib Sl Math Paper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Sl Math Paper 1 Compatibility with Devices
 - Ib Sl Math Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Sl Math Paper 1
 - Highlighting and Note-Taking Ib Sl Math Paper 1
 - Interactive Elements Ib Sl Math Paper 1
8. Staying Engaged with Ib Sl Math Paper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Sl Math Paper 1
9. Balancing eBooks and Physical Books Ib Sl Math Paper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Sl Math Paper 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ib Sl Math Paper 1
 - Setting Reading Goals Ib Sl Math Paper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ib Sl Math Paper 1
 - Fact-Checking eBook Content of Ib Sl Math Paper 1
 - 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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