



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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Quantum Communication, Quantum Networks, and Quantum Sensing Ivan B. Djordjevic, 2022-07-17 Quantum Communication Quantum Networks and Quantum Sensing represents a self contained introduction to quantum communication quantum error correction quantum networks and quantum sensing It starts with basic concepts from classical detection theory information theory and channel coding fundamentals before continuing with basic principles of quantum mechanics including state vectors operators density operators measurements and dynamics of a quantum system It continues with fundamental principles of quantum information processing basic quantum gates no cloning and theorem on indistinguishability of arbitrary quantum states The book then focuses on quantum information theory quantum detection and Gaussian quantum information theories and quantum key distribution QKD The book then covers quantum error correction codes QECCs before introducing quantum networks The book concludes with quantum sensing and quantum radars quantum machine learning and fault tolerant quantum error correction concepts Integrates quantum information processing fundamentals quantum communication quantum error correction quantum networks QKD quantum sensing and quantum machine learning Provides in depth exposition on the design of quantum error correction circuits quantum communications systems quantum networks and quantum sensing systems Shows how to design the information processing circuits stabilizer codes CSS codes entanglement assisted quantum error correction codes Describes quantum machine learning

Transitional Justice for Child Soldiers K. Fisher, 2013-10-10 This book examines and offers suggestions for how post conflict practices should conceptualize and address harms committed by child soldiers for successful social reconstruction in the aftermath of mass atrocity It defends the use of accountability and considers the agency of youth participants in violent conflict as responsible moral entities Mathematical Reviews ,1976-05

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Table of Contents May 2012 Ib Math Sl Paper 1

1. Understanding the eBook May 2012 Ib Math Sl Paper 1
 - The Rise of Digital Reading May 2012 Ib Math Sl Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying May 2012 Ib Math Sl 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 May 2012 Ib Math Sl Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 2012 Ib Math Sl Paper 1
 - Personalized Recommendations
 - May 2012 Ib Math Sl Paper 1 User Reviews and Ratings
 - May 2012 Ib Math Sl Paper 1 and Bestseller Lists
5. Accessing May 2012 Ib Math Sl Paper 1 Free and Paid eBooks
 - May 2012 Ib Math Sl Paper 1 Public Domain eBooks
 - May 2012 Ib Math Sl Paper 1 eBook Subscription Services
 - May 2012 Ib Math Sl Paper 1 Budget-Friendly Options
6. Navigating May 2012 Ib Math Sl Paper 1 eBook Formats

- ePub, PDF, MOBI, and More
 - May 2012 Ib Math Sl Paper 1 Compatibility with Devices
 - May 2012 Ib Math Sl Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 2012 Ib Math Sl Paper 1
 - Highlighting and Note-Taking May 2012 Ib Math Sl Paper 1
 - Interactive Elements May 2012 Ib Math Sl Paper 1
 8. Staying Engaged with May 2012 Ib Math Sl Paper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 2012 Ib Math Sl Paper 1
 9. Balancing eBooks and Physical Books May 2012 Ib Math Sl Paper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 2012 Ib Math Sl Paper 1
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine May 2012 Ib Math Sl Paper 1
 - Setting Reading Goals May 2012 Ib Math Sl Paper 1
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of May 2012 Ib Math Sl Paper 1
 - Fact-Checking eBook Content of May 2012 Ib Math Sl 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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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize $\mathbf{d}^T \mathbf{x}_n$ subject to $\mathbf{u}^L \leq \mathbf{u} \leq \mathbf{u}^U$ $\mathbf{x}^L \leq \mathbf{x} \leq \mathbf{x}^U$ $\mathbf{x}(0) = \mathbf{x}_0$ where $\mathbf{x}$ and $\mathbf{u}$ are related via the recursion $\mathbf{x}(t+1) = \mathbf{A}\mathbf{x}(t) + \mathbf{B}\mathbf{u}(t)$

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linear programming uses linear algebraic relationships to represent a firm's decisions given a business objective and resource constraints

steps in application

- 1 identify problem as solvable by linear programming
- 2 formulate a mathematical model of the unstructured problem
- 3 solve the model
- 4 implementation

introduction