



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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K. Fisher



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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

May 2012 Ib Math Sl Paper 1 Book Review: Unveiling the Power of Words

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