



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 Maths Studies Specimen Paper 2013

M Walker



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Hindu satell Ruhel Chisty MRACI CChem A, **Decision and Game Theory for Security** Sajal K. Das,Cristina Nita-Rotaru,Murat Kantarcioglu,2013-10-30 This book constitutes the refereed proceedings of the 4th International Conference on Decision and Game Theory for Security GameSec 2013 held in Fort Worth TX USA in November 2013 The 15 revised full papers presented were carefully reviewed and selected from numerous submissions The conference focuses on analytical models based on game information communication optimization decision and control theories that are applied to diverse security topics At the same time the connection between theoretical models and real world security problems are emphasized to establish the important feedback loop between theory and practice Observing the scarcity of venues for researchers who try to develop a deeper theoretical understanding of the underlying incentive and resource allocation issues in security we believe that GameSec will fill an important void and serve as a distinguished forum of highest standards for years to come

Advances in Mathematical Sciences Bahar Acu,Donatella Danielli,Marta Lewicka,Arati Pati,Saraswathy RV,Miranda Teboh-Ewungkem,2020-07-16 This volume highlights the mathematical research presented at the 2019 Association for Women in Mathematics AWM Research Symposium held at Rice University April 6 7 2019 The symposium showcased research from women across the mathematical sciences working in academia government and industry as well as featured women across the career spectrum undergraduates graduate students postdocs and professionals The book is divided into eight parts opening with a plenary talk and followed by a combination of research paper contributions and survey papers in the different areas of mathematics represented at the symposium algebraic combinatorics and graph theory algebraic biology commutative algebra analysis probability and PDEs topology applied mathematics mathematics education

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