



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]

Mathematical Studies Sl Paper Nov

Lauren Gardner



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Mathematical Studies Standard Level for the IB Diploma Coursebook Caroline Meyrick, Kwame Dwamena, 2013-05-30 This completely new title is written to specifically cover the new IB Diploma Mathematical Studies syllabus The significance of mathematics for practical applications is a prominent theme throughout this coursebook supported with Theory of Knowledge internationalism and application links to encourage an appreciation of the broader contexts of mathematics Mathematical modelling is also a key feature GDC tips are integrated throughout with a dedicated GDC chapter for those needing more support Exam hints and IB exam style questions are provided within each chapter sample exam papers online can be tackled in exam style conditions for further exam preparation Guidance and support for the internal assessment is also available providing advice on good practice when writing the project Journal of Research of the National Bureau of Standards ,1975 **Optimization Algorithms** Ozgur Baskan, 2016-09-21 This book covers state of the art optimization methods and their applications in wide range especially for researchers and practitioners who wish to improve their knowledge in this field It consists of 13 chapters divided into two parts I Engineering applications which presents some new applications of different methods and II Applications in various areas where recent contributions of state of the art optimization methods to diverse fields are presented U.S. Government Research Reports ,1959 Resources in Education ,1977 **Handbook for Achieving Gender Equity Through Education** Susan S. Klein, Barbara Richardson, Dolores A. Grayson, Lynn H. Fox, Cheris Kramarae, Diane S. Pollard, Carol Anne Dwyer, 2014-05-22 First published in 1985 the Handbook for Achieving Gender Equity Through Education quickly established itself as the essential reference work concerning gender equity in education This new expanded edition provides a 20 year retrospective of the field one that has the great advantage of documenting U S national data on the gains and losses in the efforts to advance gender equality through policies such as Title IX the landmark federal law prohibiting sex discrimination in education equity programs and research Key features include Expertise Like its predecessor over 200 expert authors and reviewers provide accurate consensus research based information on the nature of gender equity challenges and what is needed to meet them at all levels of education Content Area Focus The analysis of gender equity within specific curriculum areas has been expanded from 6 to 10 chapters including mathematics science and engineering Global Diversity Focus Global gender equity is addressed in a separate chapter as well as in numerous other chapters The expanded section on gender equity strategies for diverse populations contains seven chapters on African Americans Latinas/os Asian and Pacific Island Americans American Indians gifted students students with disabilities and lesbian gay bisexual and transgender students Action Oriented All chapters contain practical recommendations for making education activities and outcomes more gender equitable A final chapter consolidates individual chapter recommendations for educators policymakers and researchers to achieve gender equity in and through education New Material Expanded from 25 to 31 chapters this new edition includes more emphasis on

male gender equity and on sexuality issues special within population gender equity challenges race ability and disability etc coeducation and single sex education increased use of rigorous research strategies such as meta analysis showing more sex similarities and fewer sex differences and of evaluations of implementation programs technology and gender equity is now treated in three chapters women s and gender studies communication skills relating to English bilingual and foreign language learning and history and implementation of Title IX and other federal and state policies Since there is so much misleading information about gender equity and education this Handbook will be essential for anyone who wants accurate research based information on controversial gender equity issues journalists policy makers teachers Title IX coordinators equity trainers women s and gender study faculty students and parents

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