



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 Math Sl Paper Practice

SJ Ball



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IB Math SL Stella Carey, 2014-08-01 The International Baccalaureate IB was founded in Geneva Switzerland in 1968 as a non profit educational foundation that endeavored to develop inquiring knowledgeable and caring young people who would go on to create a better and more peaceful world through intercultural understanding and respect What began as a single program for internationally mobile students preparing for college has grown into a series of programs for students up to age 19 Barron s is pleased to offer a brand new course review and exam preparation guide for the IB Mathematics SL exam The content of the book is based on the subject guide published by the International Baccalaureate Organization It covers all topics required for exams beginning in 2014 and includes A full length diagnostic test with markscheme and fully explained answers Study tips and exam strategies Topic review and practice for each strand of the IB Math SL curriculum including explanations and examples as well as problem sets with fully explained solutions Two full length practice exams with markschemes and fully explained answers This all encompassing book can also serve as a supplement to classroom instruction throughout the two year IB Math SL course a resource for the Internal Assessment project and a review resource during first year college math courses [2010 Practice Examination for Use with the IB Diploma Programme](#) ,2010

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process of national rehabilitation and reconstruction particularly in relation to the education system The authors provide a comprehensive historical background to primary school leadership not only in Cambodia but in post conflict environments more broadly informing school leadership preparation development and support and facilitating understanding of the context in which school leaders work This book will be of value to students and scholars of primary school education and education in post conflict countries as well as to practitioners and policy makers Backpacker ,2000-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Allgemeines englisch-deutsches und deutsch-englisches Wörterbuch** Johann Gottfried Flügel,1894 *2008 Practice Examination for Use with the IB Diploma Programme* ,2007 **Proceedings** American Society for Engineering Education. Conference,1986

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