



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 Sl Math Paper 1

Wendy Bosberry-Scott



Ib Sl Math Paper 1:

IB World Schools Yearbook 2011 Wendy Bosberry-Scott,2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate Organization Learning and Understanding National Research Council,Division of Behavioral and Social Sciences and Education,Center for Education,Committee on Programs for Advanced Study of Mathematics and Science in American High Schools,2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs **Mathematical Reviews** ,2008 Index of Mathematical Papers ,1985 *Quarterly Journal of Pure and Applied Mathematics* James Joseph Sylvester,James Whitbread Lee Glaisher,1915 Reviews in Number Theory ,1984-96 ,1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in *Mathematical Reviews* between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984 **Allgemeines englisch-deutsches und deutsch-englisches Wörterbuch** Johann Gottfried Flügel,1894 **Dictionary Catalog of the Oriental Collection** New York Public Library. Research Libraries,New York Public Library. Reference Department,1976 Proceedings American Society for Engineering Education. Conference,1986 **PC Mag** ,1990-09-25 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **Kac-Moody and Virasoro Algebras** Peter Goddard,David Olive,1988 This volume reviews the subject of Kac Moody and Virasoro Algebras It serves as a reference book for physicists with commentary notes and reprints Reviews in Complex Analysis ,1980-1986 ,1989 **Physics Letters** ,1996 Proceedings American Society for Engineering Education,1986 **Reviews in Complex Analysis, 1980-86** ,1989 Reviews in Global Analysis ,1980-86 as Printed in *Mathematical Reviews* ,1988 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries,1979 **National Stockman and Farmer** ,1894 **Applied Mechanics Reviews** ,1966 Norsk John

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