



## 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 English Past Paper May 2001

**Patricia Weiss Fagen**



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**British Education Index**, 2002     *The Baccalaureate* Graham Phillips, Tim Pound, 2003-12-16 Every year the UK A Level results bring with them the inevitable tide of questions about the quality and standard of the exams Are they getting easier Is studying for three or four subjects in great detail right in the modern world Can standards and pass rates be sustained One option already available to schools and students is the baccalaureate system With reform of the gold standard A level likely and with qualification reform in Wales and Scotland already a reality this unique book will be essential reading for anyone who needs to know about the post 16 qualifications debate Covering national and international approaches the IBO curriculum reform and political and educational imperatives the book including expert contributions by the leading figures in the bac debate from the HE state and independent schools sectors as well as from political and research fields

**The Zoological Record**, 2002     British National Bibliography for Report Literature, 2002-06     ,     *Dictionary of National Biography* Leslie Stephen, Sir Leslie Stephen, Sir Sidney Lee, 1896     *English Mechanic and World of Science*, 1875

**English Mechanic and Mirror of Science and Art**, 1902     *The Digest of English Case Law Containing the Reported Decisions of the Superior Courts* John Mews, 1898     *The Digest of English Case Law* John Mews, 1898     **Farmer's**

**Weekly**, 1928     Parliamentary Papers Great Britain. Parliament. House of Commons, 1878     *The Farmer's Weekly*, 1929

DICTIONARY OF NATIONAL BIOGRAPHY, 1893     **The British National Bibliography** Arthur James Wells, 2006

**Bibliotheca Cornubiensis** Georg-Clement Boase, 1882     **Mathematical Reviews**, 2004     The Dictionary of National Biography Leslie Stephen, Sir Sidney Lee, 1909     Muslims in Britain Humayun Ansari, 2002-09-03 The situation of Muslims in Britain is one of the most pressing issues facing British society today A rise in the number of attacks on Muslims in Britain increasing threats to civil liberties in the name of security measures a resurgence in the activities of the far right in Britain as well as elsewhere in Europe and a crackdown on refugees fleeing persecution place serious questions over Britain's commitment to minority rights The purpose of this report is to explore Muslim experience in Britain and to call for legislative and policy change The author considers Muslims access to education employment and housing drawing upon new research and existing statistics as well as case studies and interviews He discusses Muslims diverse and changing identities their participation in politics at local and national level their campaigns around education He gives an outline of how Sharia law and English law conflict in some areas but have been reconciled in others Islamophobia and the media and within the criminal justice system particularly post September 11th are also examined Finally the author examines existing human rights legislation in relation to Muslims in Britain and finds that they are for the most part unprotected A set of recommendations proposes some steps that could be taken to tackle religious discrimination Islamophobia in the media and other issues of concern     *Irish University Press Series of British Parliamentary Papers*, 1968

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