



## 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 2november Paper 1

**RJ Alexander**



## **Ib Math SL 2november Paper 1:**

*Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971* New York Public Library. Research Libraries, 1979     *IB Mathematics Analysis & Approaches Potential Papers Standard Level* Dilan Wimalasena, 2020-12-05 This book contains 4 exam practice papers and it is aimed at 2021 IB Mathematics examination for Standard level Each section contains 2 exam papers labeled as paper 1 paper 2 similar to the actual exam     *Workbook - IB Diploma Math SL Part 1* Eran Levin, 2013-04-16 This is a student workbook for the IB Math SL IB diploma This workbook covers the first 3 chapters The rest are included in the part 2 More info and free material can be found at <http://ibmathworkbooks.webnode.es> The index of the book is as follows CHAPTER 1 ALGEBRA 1 1 Types of numbers 1 2 Interval notation 1 3 Rationalization 1 4 Exponents and Logarithms 1 5 Equations 1 6 Equations with absolute value 1 7 Binomial Theorem 1 8 Sequences and Series CHAPTER 2 FUNCTIONS 2 1 Introduction to functions 2 2 Linear functions 2 3 Quadratic Functions 2 4 Transformations 2 5 Simple Rational functions 2 6 Exponential functions 2 7 Logarithmic functions 2 8 Radical functions 2 9 Piecewise functions 2 10 Composite functions 2 11 Inverse functions CHAPTER 3 TRIGONOMETRY 3 1 Degrees and Radians 3 2 Definition of the Trigonometric functions 3 3 Trigonometric functions 3 4 Sine and Cosine Rule 3 5 Trigonometric Ratios 3 6 Inverse Trigonometric functions 3 7 Trigonometric equations     **Applications and Interpretation Standard Level for IBDP Mathematics** Stephen Lee, Michael Cheung, Balance Lee, 2021-02 Main features Four Sets of Paper 1 Short Conventional Questions and Paper 2 Structured Conventional Questions Examination Format Analysis Distribution Table for Exam Topics Comprehensive Formula List for Quick Review in Concepts and Contents Assessment Style Questions Across All Topics in the Syllabus Suitable Tool for Preparing Examinations     **IB Math Studies** Allison Paige Bruner, 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 review guide for the IB Mathematics Studies exam The content of the book is based on the curriculum and covers all topics required for exams beginning in 2014 It includes An overview of the exam including an explanation of scoring Thorough review and explanation for all curriculum subjects Extensive review and practice for each topic including Paper 1 and Paper 2 examples Three full length paper 1 and 2 practice exams with solutions and comprehensive explanations Calculator instructions for the TI 84 and TI Nspire This all encompassing book also serves as a valuable resource during first year college math courses     *Workbook - IB Diploma Math SL Studies* Eran Levin, 2013-04-15 This is a Student workbook for the IB Math SL STUDIES IB Diploma This workbook covers all the chapters and includes examples of all kinds More info and free material can be found at <http://ibmathworkbooks.webnode.es> The index of the book is

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