



## 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]

# Maths Sl Ib Past Papers 2013

**Dilan Wimalasena**



## Maths SL IB Past Papers 2013:

*Infants and Children* Laura E. Berk, 2022-07-26 In the Ninth Edition of *Infants and Children* Prenatal Through Middle Childhood renowned professor researcher and author Laura E Berk takes an integrated approach to presenting development in the physical cognitive emotional and social domains emphasizing the complex interchanges between heredity and environment providing exceptional multicultural and cross cultural focus and offering research based practical applications that students can relate to their personal and professional lives *Ebook: Life-Span Development* Santrock, 2016-09-16 *Ebook Life Span Development* *Instructional Agility* Cassandra Erkens, Tom Schimmer, Nicole Dimich, 2017-10-27 The true power of assessment comes when emerging results determine what comes next in student learning This practical book empowers educators and their teams schools or districts to move seamlessly between instruction formative assessment and feedback improving school culture more effectively than traditional methods Instructional agility enhances ownership of learning proficiency and motivation for students and promotes a positive school culture Each chapter concludes with reflection questions that assist readers in determining next steps for supporting the whole child and the whole learning process Learn how to promote an agile culture of learning in school to increase student ownership of learning Discover how instructional agility fits within the six tenets of the essential assessment framework Learn how to foster and maintain a culture of learning in schools Gain strategies and tools to enhance instructional agility and assessment practices Examine examples of instructional agility in action Consider questions that help individual teachers and learning teams contemplate what they learned and their next steps for implementing for instructional agility strategies Contents Chapter 1 Establishing a Culture of Learning Chapter 2 Engineering Engaging Conversations Chapter 3 Questioning Chapter 4 Observing Chapter 5 Mobilizing Chapter 6 Practicing Chapter 7 Fostering a Culture of Instructional Agility References and Resources *Applied Mechanics Reviews*, 1966 *Directory of British Scientists*, 1966 *Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971* New York Public Library. Research Libraries, 1979 **Science Citation Index**, 1994 Vols for 1964 have guides and journal lists [Arts & Humanities Citation Index](#), 1995 **IB Mathematics SL in 80 Pages** George Feretzakis, 2018-02-14 This Revision Guide will be a valuable resource and reference for students assisting them to understand and learn the theory of IB mathematics Standard Level The Guide aims to help the IB student by both revising the theory and going through some well chosen examples of the IB mathematics SL curriculum By presenting the theory that every IB student should know before taking any quiz test or exam this Revision Guide is designed to make the topics of IB math SL both comprehensible and easy to grasp *Exam Practice Workbook for Mathematics for the IB Diploma: Applications and Interpretation SL* Paul Fannon, Vesna Kadelburg, Stephen Ward, 2021-01-29 Consolidate learning and develop problem solving skills through exam practice questions ideal for independent learning homework or extension activities Strengthen skills and consolidate knowledge with a wealth of advice and questions that mirrors the syllabus line by

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