



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]

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IB Math IA (Internal Assessment) Alvin Loo Chee Wee, This is a book to provide the initial discussion you need to start off your Math IA journey in case you feel you are not getting sufficient help. It contains ten report ideas and how one can potentially develop them into a report. It also contains comments on recommended report structure sequence and tips on perfecting your Math typography.

Introduction to Statistics (IB SL Math) Lee Jun Cai, Confused about the various concepts on Introduction to Statistics taught in school or simply want more practice questions. This book on Introduction to Statistics seeks to offer a condensed version of what you need to know for your journey in IB Mathematics SL alongside with detailed worked examples and extra practice questions. Tips on certain question types are provided to aid in smoothing the working process when dealing with them.

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Cincinnati Magazine, 2003-04 Cincinnati Magazine taps into the DNA of the city exploring shopping, dining, living, and culture and giving readers a ringside seat on the issues shaping the region.

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Published Papers from the Engineering Research Laboratory E.I. du Pont de Nemours & Company, 1953

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.

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