



## 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]

# May 2013 Ib Paper 1 Sl

**Annelies Wilder-Smith**



## **May 2013 Ib Paper 1 Sl:**

*IB Chinese B SL (Standard Level) 2022 November Paper 1 Writing* DAVID YAO, IB Chinese B SL Standard Level 2022 November Paper 1 Writing Comprehensive Past Paper Analysis Preface to the IB Chinese B SL Paper 1 Writing Intensive Revision Course The IB Chinese B SL Paper 1 Writing Intensive Revision Course has been meticulously designed to provide students with focused and comprehensive preparation for the writing component of the IB Chinese B SL exam Writing is a fundamental skill in Paper 1 where students are tasked with crafting well structured coherent texts in response to prompts that reflect real world scenarios and cultural contexts This course is dedicated to enhancing students ability to express themselves fluently and accurately in written Chinese a skill that is critical for both academic success and effective communication in daily life The writing section often poses challenges due to the need for precision in grammar vocabulary and structure as well as the ability to convey ideas clearly and persuasively To address these challenges this course offers intensive practice in key areas such as organizing thoughts expanding vocabulary and mastering various writing formats ranging from formal letters and reports to personal reflections and narratives Each writing task is aligned with the types of questions students will encounter on the actual exam ensuring that they become familiar with both the format and the expectations The course materials are carefully curated to reflect the themes and topics central to the IB curriculum such as cultural diversity social issues global challenges and personal relationships Each module is structured to gradually build students writing skills starting with foundational grammar and vocabulary exercises and progressing to more complex writing tasks that encourage creative and critical thinking In addition to writing practice the course provides essential tips for time management planning and editing all aimed at helping students improve their overall performance in the writing section By the end of this intensive revision students will have developed the confidence and proficiency needed to tackle Paper 1 with clarity and precision preparing them not only for the exam but also for more advanced levels of Chinese study Drawing from over 30 years of experience in teaching Chinese as a foreign language this course has been developed with the needs of IB students in mind It includes a comprehensive database of vocabulary and phrases tailored to the exam s demands along with practical examples that illustrate how to write effectively in different registers and styles Our unique approach to vocabulary acquisition including thematic organization and HSK level categorization ensures that students gain a deep understanding of the language while improving their writing abilities We believe that this course will serve as a vital resource for students striving to achieve their best results in the IB Chinese B SL Paper 1 exam More than just an exam preparation tool it is designed to enrich your overall experience of learning Chinese helping you appreciate the language s nuances and the rich cultural heritage it represents As you embark on this revision journey remember that the skills you develop here will extend far beyond the exam room Writing in Chinese opens the door to deeper connections with the language culture and the global community We are honored to be part of your academic journey and we wish you great

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DAVID YAO, IB Chinese B SL Reading Comprehension Mock November 2023 IB Exam oriented Skills to Improve in  
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Comprehension section of the IB Chinese B SL examination The Listening Comprehension section is a crucial part of the  
examination assessing students ability to understand and interpret spoken Mandarin Chinese across a range of contexts and  
topics This mock paper aims to simulate the format and difficulty level of the actual IB examination providing students with  
an opportunity to familiarize themselves with the types of questions they may encounter and to refine their listening skills  
Good luck to all candidates By referring IB Chinese B Syllabus 2023 and HSK Chinese Proficiency Test Version 2021 and  
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