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|---------------------|--|--|--|--|--|------------------|--|--|--|--|
| Centre Number       |  |  |  |  |  | Candidate Number |  |  |  |  |
| Surname             |  |  |  |  |  |                  |  |  |  |  |
| Other Names         |  |  |  |  |  |                  |  |  |  |  |
| Candidate Signature |  |  |  |  |  |                  |  |  |  |  |



Level 2 Certificate in Further Mathematics

## Further Mathematics Level 2

**8360/2**

## Practice Paper Set 2

### Paper 2

#### Calculator

For this paper you must have:

- a calculator
- mathematical instruments.



#### Time allowed

2 hours

#### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- In all calculations, show clearly how you work out your answer.

#### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 105.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer booklet.
- The use of a calculator is expected but calculators with a facility for symbolic algebra must **not** be used.

| For Examiner's Use  |      |
|---------------------|------|
| Examiner's Initials |      |
| Pages               | Mark |
| 3                   |      |
| 4 - 5               |      |
| 6 - 7               |      |
| 8 - 9               |      |
| 10 - 11             |      |
| 12 - 13             |      |
| 14 - 15             |      |
| 16 - 17             |      |
| 18 - 19             |      |
| 20 - 21             |      |
| 22                  |      |
| <b>TOTAL</b>        |      |

**8360/2**

# Further Mathematics 8360 Practice Paper 2

**S Marginson**



## **Further Mathematics 8360 Practice Paper 2:**

Theory and Practice of Lesson Study in Mathematics Rongjin Huang, Akihiko Takahashi, João Pedro da Ponte, 2019-05-28

This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS. It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives. Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries, it enables the reader to take a comparative perspective. Finally, the book presents and discusses studies on key aspects of LS such as lesson planning, post-lesson discussion, guiding theories, connection between research and practice, and upscaling Lesson Study, which has originated in Asia as a powerful, effective professional development model. Although the positive effects of lesson study on teacher learning, student learning, and curriculum reforms have been widely documented, conceptualization of and research on LS have just begun to emerge. This book, including 38 chapters contributed by 90 scholars from 21 countries, presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process.

Chapter 15: How Variance and Invariance Can Inform Teachers' Enactment of Mathematics Lessons

One of the lessons of this book is available open access under a CC BY 4.0 license at [link.springer.com](https://link.springer.com). Theory and Practice of Lesson Study in Mathematics: An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model. Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges.

Max Stephens, Senior research fellow at The University of Melbourne: It works. Instruction improves, learning improves. Wide scale. Enduring. Deep impact. Lesson study has it. When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise, it is time to understand how and why lesson study works. This volume brings the research on lesson study together from around the world. Here is what we already know, and here is the way forward for research and practice informed by research. It is time to wake up and pay attention to what has worked so well on wide scale for so long.

Phil Dara, a leading author of the Common Core State Standards of Mathematics in the U.S.: *The Complete Book of Colleges, 2017 Edition* Princeton Review, 2016-07

The MEGA GUIDE to 1,355 COLLEGES AND UNIVERSITIES. No one knows colleges better than The Princeton Review. Inside *The Complete Book of Colleges, 2017 Edition*, you'll find meticulously researched information that will help you narrow the search for the best college for you. Each of the 1,355 user-friendly profiles answers your questions, including: How much are tuition and other student fees and costs? What types of financial aid are available and when are the applications due? What do admissions officers most look for in test scores and recommendations? Which majors are the most popular and have the highest enrollment? What is the housing like and how accessible is technology on campus? What are the key campus

organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review     *Bookseller and the Stationery Trades' Journal* ,1981     **Resources in Education** ,1969     *Vocational-technical Learning Materials* Bruce Reinhart,1974     **Research in Education** ,1969     **General Catalogue of Printed Books** British Museum. Department of Printed Books,1969     *British Books in Print* ,1980     **The Athenaeum** ,1840     *Math Made Easy: Fifth Grade* John Kennedy,2001-06-13 Specifically designed for fifth grade age children ages ten 11 this home study workbook carefully developed by educational advisors conforms to U S educational curricula Covers the entire range of primary math learning and includes a completion certificate gold star stickers and a progress chart Full color illustrations

Further Mathematics 8360 Practice Paper 2: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Further Mathematics 8360 Practice Paper 2 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Further Mathematics 8360 Practice Paper 2 : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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