

Write your name here:

Surname

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Pearson Edexcel
Level 1 / Level 2
GCSE (9–1)

Centre Number

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Candidate Number

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Mathematics

Paper 3 (Calculator)

Higher Tier

June 2020 - Morning
Time: 1 hour 30 minutes

Paper Reference

1MA1/3H

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
- *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
- *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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Maths Paper 1 Higher Tier June 2015

Michael Brown



Maths Paper 1 Higher Tier June 2015:

How Shanghai Does It Xiaoyan Liang, Huma Kidwai, Minxuan Zhang, Yinan Zhang, 2016-04-08 The Shanghai basic education system has garnered significant attention since its extraordinary performance in the 2009 and 2012 Programme for International Student Assessment PISA a global assessment of 15 year olds educational abilities Among the 65 participating economies in 2012 Shanghai China ranked first on all three major domains of PISA i.e mathematics reading and science Shanghai also stands out for having the world's highest percentage of resilient students students from socio economically disadvantaged backgrounds who emerge as top performers Shanghai's PISA story has generated intense discussions and diverse speculations in field of international educational development and numerous studies have been done in the attempt to unravel the mystery Missing from the picture however is a more comprehensive systematic in depth and objective rendition of the policies and practices of Shanghai basic education benchmarked against others in key dimensions This report presents an in depth examination of how Shanghai scored highest in the areas of reading science and mathematics on PISA It documents and benchmarks key policies in basic Shanghai education provides evidence on the extent to which these policies have been implemented in schools and explores how these policies have affected learning outcomes The report uses PISA 2012 data to analyze Shanghai student achievement variation and to examine the extent school variables may be associated with the variation beyond family and student background It also uses the World Bank's Systems Approach for Better Education Results SABER an existing systems diagnostic and benchmarking tool as an organizing framework and for data collection School based surveys and other existing research shed further light on educational impact and implementation While the report attempts to adopt a systems approach particular emphasis is placed on teachers education financing balancing autonomy and accountability and student assessment *Canada 2015-2016* Wayne C. Thompson, 2015-05-14 This is an annually updated presentation of Canada past and present The contents in this volume are organized into sections dealing with Canada's culture Geography people history from New France to the constitutional debates in the late 20th century political system including the constitution monarchy parliament legal and court system federalism and the provinces provincial governments parties and elections defense economy the future and a comprehensive bibliography The combination of factual accuracy and up to date detail along with its informed projections make this an outstanding resource for researchers practitioners in international development media professionals government officials potential investors and students Now in its 30th edition the content is thorough yet perfect for a one semester introductory course or general library reference Available in both print and e book formats and priced low to fit student and library budgets **Handbook for Education Professionals** University of Bristol, School of Education, 2019-08-05 The guide is an essential resource for trainee teachers working towards the Teachers Standards for qualified teacher status QTS It also helps newly qualified teachers NQTs and more experienced teachers have an understanding of and always act within the statutory

frameworks which set out their professional duties and responsibilities Teachers Standards Higher Level Teaching Assistants HLTAs and Teaching Assistants TAs working towards HLTA status will find the guide invaluable in developing knowledge of how other frameworks that support the development and well being of children and young people impact upon their practice HTLA Professional Standards *Handbook for Educational Professionals: The Bristol Guide 2020/21* UNIVERSITY OF BRISTOL, School of Education,2021-08-02 The guide is an essential resource for trainee teachers working towards the Teachers Standards for qualified teacher status QTS It also helps newly qualified teachers NQTs and more experienced teachers have an understanding of and always act within the statutory frameworks which set out their professional duties and responsibilities Teachers Standards Higher Level Teaching Assistants HLTAs and Teaching Assistants TAs working towards HLTA status will find the guide invaluable in developing knowledge of how other frameworks that support the development and well being of children and young people impact upon their practice HTLA Professional Standards

Mathematics Strategies for Tier 1 and Tier 2 Interventions in a PLC at Work® Sarah Schuhl,Mona Toncheff,Jennifer Deinhart,Brian Buckhalter,2024-12-02 Discover how your collaborative team can ensure all students learn grade level mathematics during Tier 1 and Tier 2 instruction This valuable guide provides preK 12 teachers with ready to use tools and strategies to help students communicate using mathematical language and develop number sense conceptual understanding procedural fluency mathematical reasoning problem solving and more PreK 12 educators can use this book to Collaborate with teams to build a shared understanding of essential mathematics standards Ensure students learn grade level mathematics during Tier 1 and Tier 2 instruction Learn how to help students make connections to prior learning and why that matters Create opportunities for students to reason through problems with their peers Develop students number sense procedural fluency and other key mathematics skills Contents Introduction Part 1 A Culture of Learning Chapter 1 Work as a Collaborative Mathematics Team Focused on Student Learning Chapter 2 Build a Community of Learners Part 2 Mathematics Foundations Chapter 3 Teach Grade or Course Level Content Chapter 4 Connect to Prior Knowledge Chapter 5 Develop Number Sense Chapter 6 Focus on Problem Solving Chapter 7 Develop Procedural Fluency Part 3 Student Engagement Chapter 8 Communicate Using Mathematical Language Chapter 9 Grow Learning Through Student Discourse Chapter 10 Use Meaningful Feedback for Learning Chapter 11 Empower Learners Through Student Investment Epilogue Appendix A Data Analysis Protocols Appendix B Cognitive Demand Level Task Analysis Guide References and Resources Index

Technology and Innovation in Learning, Teaching and Education Meni Tsitouridou,José A. Diniz,Tassos A. Mikropoulos,2019-05-28 This book constitutes the thoroughly refereed post conference proceedings of the First International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2018 held in Thessaloniki Greece on June 20 22 2018 The 30 revised full papers along with 18 short papers presented were carefully reviewed and selected from 80 submissions The papers are organized in topical sections on new technologies and teaching approaches to promote

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