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GCSE MATHEMATICS

Higher Tier Paper 3 Calculator

H

Wednesday 14 June 2023 Morning

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments
- the Formulae Sheet (enclosed).

**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 spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice**For Examiner's Use**

Pages	Mark
2-3	
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Gcse Papers 2013 June

Ying-Ying Zheng



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Hard Times Tom Clark, Anthony Francis Heath, 2015-01-01 Originally published 2014 as Hard times the divisive toll of the economic slump

The Art of Uncertainty David Spiegelhalter, 2025-03-04 Named a Best Book of the Year by Forbes and The Economist From our greatest living statistical communicator Tim Harford comes an invaluable data driven guide for understanding and learning to embrace risk and uncertainty in our daily lives How dangerous is our diet How much of sports falls into the realm of luck When authorities categorize a given event as highly likely how likely is that really Whether we're trying to decide if the benefits of a new medication are worth the chance of side effects or if artificial intelligence truly threatens humanity our lives are riddled with uncertainties both everyday and existential yet it can be difficult to know how to properly weigh all those unknowns Luckily for us renowned statistician David Spiegelhalter has spent his career dissecting data to resolve the apparently random and decode the many decisions we face with imperfect information In *The Art of Uncertainty* he shows how we can become better at dealing with what we don't know to make smarter choices in a world so full of puzzling variables In lucid lively prose Spiegelhalter guides us through the principles of probability illustrating how they can help us think more analytically about everything from medical advice to sports to climate change forecasts He demonstrates how taking a mathematical approach to phenomena we might otherwise attribute to fate or luck can help us sort hidden patterns from mere coincidences better evaluate cause and effect and predict what's likely to happen in the future Along the way we learn how a misinterpretation of a probability contributed to the infamous Bay of Pigs fiasco why a ship twice the size of the Titanic sank without a trace and why we can be so confident that no two properly shuffled decks of cards have ever been in the same order Sparkling with wit and fascinating real world examples this is an essential guide to navigating uncertainty while also retaining the humility to admit what we don't or simply cannot know

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teacher SAM FREEDMAN LITERARY REVIEW *Learning to Teach English in the Secondary School* Jon Davison, Caroline Daly, 2014-06-27 How do you approach teaching English in the contemporary classroom What is expected of a would be English teacher The fourth edition of this best selling text combines theory and practice to present an indispensable introduction to the opportunities and challenges of teaching English in the secondary classroom It offers insight into the history policies and definitions surrounding the subject together with innovative and practical strategies which can be used for effective teaching and learning Already a major text for many university teacher education courses the new edition reflects the extent and impact of current reforms whilst retaining its focus on what is of enduring value for English teaching With an emphasis on developing your own values and on stimulating approaches that underpin English teaching it will help you navigate your way through changing curriculum requirements assessment practice and the demands of professional development Key topics explored include Reading writing and speaking and listening Teaching language and grammar Drama in English teaching Poetry Working with digital technologies Post 16 English language and literature Developing as a critically reflective practitioner Written particularly with the new and student teacher in mind *Learning to Teach English in the Secondary School* aims to equip readers with the tools to make critically informed judgements about how to teach develop principled practice and most importantly be mindful of pupils and their experience of English in the secondary classroom Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 2014

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