

Write your name here:

Centre	City
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Centre Number

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Candidate Number

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Edexcel GCSE

Mathematics A

Paper 2 (Calculator)

Higher Tier

Wednesday 13 June 2012 – Morning

Time: 1 hour 45 minutes

Exam Reference

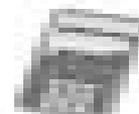
1MA0/2H

You must have full access to calculators and mathematics, geometry, pair of compasses, protractor, ruler, HB pencil, eraser, calculator. Writing paper may be used.

Exam Mark

Instructions

- Use **black ink** on ball-point pens.
- **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.
- **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 100.
- The marks for **each** question are shown in brackets.
 - Use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

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.

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2012 GCSE English results Great Britain: Parliament: House of Commons: Education Committee,2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do

The Times Index, January -December 2012 ,2012 **Education under Siege** Peter Mortimore,2013-09-23 At a time when education is considered crucial to a country s economic success recent UK governments have insisted their reforms are the only way to make England s system world class Yet pupils are tested rather than educated teachers bullied rather than trusted and parents cast as winners or losers in a gamble for school places Education under siege considers the English education system as it is and as it might be In a highly accessible style Peter Mortimore an author with wide experience of the education sector both in the UK and abroad identifies the current system s strengths and weaknesses He concludes that England has some of the best teachers in the world but one of the most muddled systems Challenging the government s view that there is no alternative he proposes radical changes to help all schools become good schools They include a system of schools receiving a fair balance of pupils who learn easily and those who do not ensuring a more even spread of effective teachers as well as banning league tables outlawing selection opening up faith schools and integrating private schools into the state system In the final chapter he asks readers who share his concerns to demand that the politicians alter course The book will appeal to parents education students and teachers as well as everyone interested in the future education of our children

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

The administration of examinations for 15-19 year olds in England Great Britain: Parliament: House of Commons: Education Committee,2012-07-03 Additional written evidence is contained in Volume 3 available on the Committee website at www.parliament.uk/educom

Ethics and Mathematics Education Paul Ernest,2024-06-10 This edited volume is an inquiry into the ethics of mathematics education and to a lesser extent the ethics of mathematics The imposition of mathematics for all raises questions of ethics What are the ethics of teaching school mathematics What are the costs as well as the benefits What are the ethical issues raised by the official aims of mathematics teaching the planned curriculum the pedagogies employed in school and college mathematics and the assessment systems These questions are addressed in the book as well as what systems of ethics we might use The volume ventures into a burgeoning new field It offers a unique set of investigations both theoretical and in terms of practices It announces the ethics of mathematics education as a new subfield of research and includes valuable contributions from many of the best known researchers in mathematics education additionally it is a valuable resource for students teachers and researchers in the field This is an enduring and classic source book in the field From the wisdom of leading scholars to the little heard voices of students this collection offers the reader many striking new insights into the ethics of mathematics and education

Extraterrestrial Contacts: the Roswell foil, UFOs, and how they alter our understanding of the modern world Jerry Kroth,2017-07-22

OECD Reviews of Vocational Education and Training Apprenticeship in England, United Kingdom Kuczera Malgorzata,Field Simon,2018-04-11 One of a series of studies on vocational education and training this review focuses on the apprenticeship system in England and concludes with policy recommendations [Parliamentary Debates \(Hansard\)](#). Great Britain. Parliament. House of Commons,2012

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