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Candidate surname

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

**Monday 10 June 2024**

Morning (Time: 1 hour 30 minutes)

Paper  
reference

**1MA1/3F**

**Mathematics**  
**PAPER 3 (Calculator)**  
**Foundation Tier**



**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB or B pencil, eraser, calculator, Formulae Sheet (enclosed). Tracing paper may be used.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **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  $x$  button, take the value of  $x$  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.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➔



# Mathematics Calculator Paper 2 14th June 2013

**S Ben Porath**



## **Mathematics Calculator Paper 2 14th June 2013:**

*Cambridge International AS and A Level Mathematics: Pure Mathematics 2 & 3 Coursebook* Sue Pemberton, Julianne Hughes, 2018-03-15 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Pure Mathematics 2 3 matches the corresponding units of the syllabus It clearly indicates materials required for P3 study only and contains materials on topics such as logarithmic and exponential functions trigonometry differentiation integration numerical solutions of equations vectors and complex numbers This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book [Cambridge O Level Mathematics Coursebook](#) Audrey Simpson, 2016-03-17 Cambridge O Level Mathematics is a resource to accompany the revised 4024 syllabus This coursebook provides a complete course for developing and practising the skills required for the O Level Mathematics qualification The content has been written to offer a range of tasks that support all aspects of the Cambridge O Level Mathematics syllabus 4024 giving students the confidence to use the mathematical techniques required to solve the range of maths problems required With detailed explanations of concepts worked examples and exercises this coursebook can be used as a classroom text and for self study **The Museum Manager's Compendium** John W. Jacobsen, 2017-09-22 *The Museum Manager's Compendium* 101 Essential Tools and Resources helps you make and implement your decisions as a museum manager and strategic planner This book's 101 sections present a treasure trove of definitions diagrams processes choices and worksheets in major areas of museum management Collectively they reflect the literature and contributions of some of the field's best thinkers The resources distill half a century of museum experience over hundreds of projects done by scores of talents and experts internationally for all types of museums *The Museum Manager's Compendium* can be used as A frequent reference book to consult when facing decisions or planning for the future A source of examples and templates of common museum reports A source of answers and options for strategic planning questions A crib book to extract text when drafting internal proposals and plans A primer when welcoming new partners and Board members A quick study and refresher of key aspects of museum practice An orientation to new staff A glossary for building shared definition among team members *The Museum Manager's Compendium* is for museum professionals leaders managers coordinators professional counsel contractors evaluators supporters and policy makers to use often It is a must own reference book for every museum professional responsible for decisions and implementation

*Encyclopedia of Agriculture and Food Systems* Neal K. Van Alfen, 2014-07-29 *Encyclopedia of Agriculture and Food Systems* Second Edition Five Volume Set addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face Questions it addresses include Will we be able to produce

enough food to meet the increasing dietary needs and wants of the additional two billion people expected to inhabit our planet by 2050 Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today s agriculture practices Will we be able to produce the additional food using less land and water than we use now These are among the most important challenges that face our planet in the coming decades The broad themes of food systems and people agriculture and the environment the science of agriculture agricultural products and agricultural production systems are covered in more than 200 separate chapters of this work The book provides information that serves as the foundation for discussion of the food and environment challenges of the world An international group of highly respected authors addresses these issues from a global perspective and provides the background references and linkages for further exploration of each of topics of this comprehensive work Addresses important challenges of sustainability and efficiency from a global perspective Takes a detailed look at the important issues affecting the agricultural and food industries today Full colour throughout *Es-pa-syó* ,2014 13+ Mathematics Level 2 Calculator (Summer Term 2013)  
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