

# GCSE (9-1) MATHS P1

FOUNDATION  
- MAY 2023

Centre Number

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Candidate Name

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

Friday 19 May 2023

Morning (Time: 1 hour 30 minutes)

Paper  
reference

1MA1/1F

Mathematics

PAPER 1 (Non-Calculator)

Foundation Tier



You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, Formulae Sheet (enclosed). 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 not be used.

## 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.

# Novembed 2013 Edexcel Maths

**Ian Pickup**



## Novembel 2013 Edexel Maths:

Teaching and Learning Secondary School Mathematics Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step **John Catt's**

**Which School? 2012** Tom Wheare, Wendy Bosberry-Scott, 2011-09 First published in 1924 Which School brings together in one volume a wide range of information and advice updated annually on independent education for children up to the age of 18 years *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 *Education under Siege* Mortimore, Peter, 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 Interpreting International Education Mary

Hayden, 2021-11-29 This book addresses issues and challenges arising in the theory and practice of international education Written by leading international experts in the field it draws on up to date scholarship relating to this burgeoning area of study The book reflects research that focuses on the increasing importance worldwide of the international schools sector Acknowledging the seminal contribution made to development of the field by Professor Jeff Thompson it discusses topical and fundamental questions relating to international education that are faced by researchers and practitioners These include the aims of international education its underpinning philosophy and values the role of curriculum the nature of pedagogy in this context and challenges for teaching and leadership The volume is research focused and comprises chapters from well regarded experts based in 11 different countries who have academic and professional experience in teaching and researching international education As a major contribution to this growing field of knowledge in a rapidly changing educational context this book will be of great interest to academics students and researchers in the field of international education worldwide as well as those with research interests in comparative education and curriculum studies *The Times Index*, 2007 Indexes the Times and its supplements

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