

2025 PREDICTED PAPER

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GCSE MATHEMATICS

Foundation Tier

Paper 1 Non-Calculator

F

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- mathematical instruments
- the Formulae Sheet (enclosed).

You must **not** use a calculator.

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 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.

Maths Predicted Paper June 2015

**Renaud Toussaint, Bjørnar
Sandnes, Daniel Koehn, Piotr
Szymczak, Einat Aharonov**



Maths Predicted Paper June 2015:

The Best Writing on Mathematics 2017 Mircea Pitici, 2017-10-31 The year's finest mathematics writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2017 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest mathematical debates Here Evelyn Lamb describes the excitement of searching for incomprehensibly large prime numbers Jeremy Gray speculates about who would have won math's highest prize the Fields Medal in the nineteenth century and Philip Davis looks at mathematical results and artifacts from a business and marketing viewpoint In other essays Noson Yanofsky explores the inherent limits of knowledge in mathematical thinking Jo Boaler and Lang Chen reveal why finger counting enhances children's receptivity to mathematical ideas and Carlo S quin and Raymond Shiau attempt to discover how the Renaissance painter Fra Luca Pacioli managed to convincingly depict his famous rhombicuboctahedron a twenty six sided Archimedean solid And there's much much more In addition to presenting the year's most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed

Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives Kinga Morsanyi, Irene Cristina Mammarella, Denes Szűcs, Carlo Tomasetto, Caterina Primi, Erin Anne Maloney, 2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research Quantitative Methods for Economics and Finance J.E. Trinidad-Segovia, Miguel Ángel Sánchez-Granero, 2021-02-12 This book is a collection of papers for the Special Issue Quantitative Methods for Economics and Finance of the journal Mathematics This Special Issue reflects on the latest developments in different fields of

economics and finance where mathematics plays a significant role The book gathers 19 papers on topics such as volatility clusters and volatility dynamic forecasting stocks indexes cryptocurrencies and commodities trade agreements the relationship between volume and price trading strategies efficiency regression utility models fraud prediction or intertemporal choice

Flow and Transformations in Porous Media Renaud Toussaint,Bjørnar Sandnes,Daniel Koehn,Piotr Szymczak,Einat Aharonov,2017-02-07 Fluid flow in transforming porous rocks fracture networks and granular media is a very active interdisciplinary research subject in Physics Earth Sciences and Engineering Examples of natural and engineered processes include hydrocarbon recovery carbon dioxide geo sequestration soil drying and wetting pollution remediation soil liquefaction landslides dynamics of wet or dry granular media dynamics of faulting or friction volcanic eruptions gas venting in sediments karst development and speleogenesis ore deposit development and radioactive waste disposal Hydrodynamic flow instabilities and pore scale disorder typically result in complex flow patterning In transforming media additional mechanisms come into play compaction de compaction erosion segregation and fracturing lead to changes in permeability over time Dissolution precipitation and chemical reactions between solutes and solids may gradually alter the composition and structure of the solid matrix either creating or destroying permeable paths for fluid flow A complex dynamic feedback thus arises where on the one hand the fluid flow affects the characteristics of the porous medium and on the other hand the changing medium influences the fluid flow This Research Topic Ebook presents current research illustrating the depth and breadth of ongoing work in the field of flow and transformation in porous media through 15 papers by 72 authors from around the world The body of work highlights the challenges posed by the vast range of length and time scales over which subsurface flow processes occur Importantly phenomena from each scale contribute to the larger scale behavior The flow of oil and gas in reservoirs and the flow of groundwater on catchment scale is sensitively linked to pore scale processes and material heterogeneity down to the micrometer scale The geological features of the same reservoirs and catchments evolved over millions of years sometimes as a consequence of cracking and fracture growth occurring on the time scale of microseconds The research presented by the authors of this Research Topic represents a step toward bridging the separation of scales as well as the separation of scientific disciplines so that a more unified picture of flow and transformation in porous media can start to emerge

The Underrepresentation of Women in Science: International and Cross-Disciplinary Evidence and Debate Stephen J. Ceci,Wendy M. Williams,Shulamit Kahn,2018-04-20 There is no shortage of articles and books exploring women s underrepresentation in science Everyone is interested academics politicians parents high school girls and boys women in search of college majors administrators working to accommodate women s educational interests the list goes on But one thing often missing is an evidence based examination of the problem uninfluenced by personal opinions accounts of lived experiences anecdotes and the always encroaching inputs of popular culture This is why this special issue of Frontiers in Psychology can make a difference In it a diverse group of authors and researchers with even more diverse

viewpoints find themselves united by their empirical objective approaches to understanding women's underrepresentation in science today. The questions considered within this special issue span academic disciplines, methods, levels of analysis, and nature of analysis. What these articles share is their scholarly evidence-based approach to understanding a key issue of our time.

The Indian Journal of Agricultural Sciences, 2015-07 Energy Research Abstracts, 1995-10 *Canadian Journal of Physics*, 2016 *Science Reporter*, 2005 **AIAA Aerospace Sciences Meeting and Exhibit, 42nd**, 2004

National Right to Work Newsletter, 2007 Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set) Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims, activities, and events **Research EU.**, 2015-02 Economic Review, 1991 *The Journal of Education*, 1901 *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons, 2013 **Who's Who of American Women, 1997-1998** Marquis Who's Who, [Anonymus AC01783920], 1996-12 WHO S WHO OF AMERICAN WOMEN is the one essential reference to depend on for accurate, detailed facts on American women of achievement. This new edition includes in-depth biographical profiles of prominent accomplished women The Mechanical World, 1923

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