



# GCSE MATHEMATICS - PAPER 3H

Summer 2022 **Predicted** Paper

Mark Scheme

Question	Working	Mark	Comment
1	$\begin{pmatrix} 5 \\ -13 \end{pmatrix}$	B1	
2	$399.5 \text{ kg} \leq \text{mass} < 400.5 \text{ kg}$	B1	
3	$3y + 8$	B1	
4a	14	A1	
4b	32	A1	
4c	Substitutes in $n = 1$ and arrives at 2 or Substitutes in $n = 2$ and arrives at 8	M1	
	Substitutes in $n = 1$ and $n = 2$ and arrives at 2 and 8 respectively	A1	
5	$(60 \Rightarrow) 2 \times 2 \times 3 \times 5$ or $(84 \Rightarrow) 2 \times 2 \times 3 \times 7$ or 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60 or 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84 or $2 \times 2 \times 3$	B1	Fully correct prime factor tree is B1
	12	A1	
6	$(\tan x =) \frac{41}{18}$ or $\tan^{-1} \left( \frac{41}{18} \right)$	M1	
	66.2( ... ) or 66.3 or 66 if M1 awarded	A1	
7a	4 and -2	A1	
7b	$(0 - 8)$ or $-8$	A1	

# Mark Scheme June 2013 Cmaths

**David Coniam, Peter Falvey**



## Mark Scheme June 2013 Cmaths:

**Conceptual Maths** Peter Mattock, 2023-04-05 Written by Peter Mattock Conceptual Maths Teaching about rather than just how to do mathematics in schools aims to empower teachers to support students on a comprehensive and coherent journey through school mathematics Showcasing the best models metaphors and representations it provides excellent examples explanations and exercises that can be used across the curriculum Concepts are at the heart of the study of mathematics They are the ideas that remain constant whenever they are encountered but which combine and build upon each other to create the mathematical universe It is the structure of each concept that gives rise to the procedures that are used in calculation and problem solving and by learning about these structures a learner can make sense of how different processes work and use them flexibly as need demands In his first book Visible Maths Peter Mattock focused on the use of representations and manipulatives as images and tools and how this can provide a window into some of these mathematical structures His aim in Conceptual Maths is to go deeper beyond the procedures and to shed greater light on the structures of the subject's different concepts The book explores how a variety of visual tools and techniques can be used in the classroom to deepen pupils' understanding of mathematical structures concepts and operations including number addition and subtraction multiplication and multiples division and factors proportionality functionality measures accuracy probability shape and transformation and vectors among many others In so doing Peter equips teachers with the confidence and practical know-how to help learners assimilate knowledge of mathematical concepts into their schema and take their learning to the next level Containing numerous full colour diagrams and models to illustrate the conceptual takeaways and teaching techniques discussed Conceptual Maths also includes a glossary covering the key mathematical terms Suitable for teachers of maths in primary secondary and post-16 settings Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong's use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders CTET Success Master Maths & Science Paper-2 for Class 6 to 8 2020 Arihant Experts, 2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble professions a person could have A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teachers The exam is conducted into 2 papers Paper 1 for class 1-5 and Paper 2 for class 6-8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The

new the edition of Study Guide Success Master CTET Mathematics and Science Paper II has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam

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*CTET Success Master Maths and Science Paper 2 for Class 6 to 8 for 2021 Exams* Arihant Experts,2021-05-26

1 Success Master Study Guides focus in the preparation of CTET teaching Exam 2 This book deals with CTET Mathematics and Science Paper 2 Classes 6 8 3 Divided into 5 main Sections completely prepared on the latest exam pattern 4 Provides Previous years Solved Papers 2 Practice Sets and more than 3000 MCQs are given for thorough practice CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepared as per National Curriculum Framework here s representing the updated edition of Success Master CTET Mathematics Science Paper II Class VI VIII that serves as a study guide for the candidates who are willing to appear for the exam this year The book provides focused study material dividing the entire syllabus into 5 majors providing the complete coverage With more than 3000 MCQs are provided for the quick revision of the concepts Chapterwise coverage of the previous Years questions along with the Trend Analysis help aspirants for better preparation Lastly Solved Paper 2021 2 Practice Sets are given leaving no stones untouched Preparation done from this book proves to be highly useful for CTET Paper 1 in achieving good rank in the exam

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Using Film and Media in the Language Classroom Carmen Herrero,Isabelle Vanderschelden,2019-07-11 This book demonstrates the positive impact of using film and audiovisual material in the language classroom The chapters are

evidence based and address different levels and contexts of learning around the world They demonstrate the benefits of using moving images and films to develop intercultural awareness and promote multilingualism and suggest Audiovisual Translation AVT activities and projects to enhance language learning The book will be a valuable continuing professional development resource for language teachers and those involved in curriculum development as well as bringing the latest research theory and pedagogical techniques to teacher training courses

**Graph-Theoretic Concepts in Computer Science** Andreas Brandstädt,Klaus Jansen,Rüdiger Reischuk,2013-11-12 This book constitutes the thoroughly refereed proceedings of the 39th International Workshop on Graph Theoretic Concepts in Computer Science WG 2013 held in L beck Germany in June 2013 The 34 revised full papers presented were carefully reviewed and selected from 61 submissions The book also includes two abstracts The papers cover a wide range of topics in graph theory related to computer science such as structural graph theory with algorithmic or complexity applications design and analysis of sequential parallel randomized parameterized and distributed graph and network algorithms computational complexity of graph and network problems computational geometry graph grammars graph rewriting systems and graph modeling graph drawing and layouts random graphs and models of the web and scale free networks and support of these concepts by suitable implementations and applications

**Advances in Fluid-Structure Interaction** Marianna Braza,Alessandro Bottaro,Mark Thompson,2016-04-07 This book addresses flow separation within the context of fluid structure interaction phenomena Here new findings from two research communities focusing on fluids and structures are brought together emphasizing the importance of a unified multidisciplinary approach The book covers the theory experimental findings numerical simulations and modeling in fluid dynamics and structural mechanics for both incompressible and compressible separated unsteady flows There is a focus on the morphing of lifting structures in order to increase their aerodynamic and or hydrodynamic performances to control separation and to reduce noise as well as to inspire the design of novel structures The different chapters are based on contributions presented at the ERCOFTAC Symposium on Unsteady Separation in Fluid Structure Interaction held in Mykonos Greece 17 21 June 2013 and include extended discussions and new highlights The book is intended for students researchers and practitioners in the broad field of computational fluid dynamics and computational structural mechanics It aims at supporting them while dealing with practical issues such as developing control strategies for unsteady separation and applying smart materials and biomimetic approaches for design and control

**EDIS, NPLs, Sovereign Debt and Safe Assets** Andreas Dombret,Patrick S. Kenadjian,2020-02-24 Why does the third leg of the European Banking Union EDIS remain mired in controversy This book presents the views of senior representatives of the public and private sectors and academia on why EDIS is either necessary counter productive or even dangerous No viewpoint has been excluded and the full range of issues involved is covered including the impact on financial stability and on consolidation of the financial sector in Europe progress on reducing NPLs the feasibility of developing safe bonds and other more practical solutions to the doom

loop and the actual design of EDIS      *Nature of Computation and Communication* Phan Cong Vinh, Leonard Barolli, 2016-10-25 This book constitutes the post conference proceedings of the Second International Conference on Nature of Computation and Communication ICTCC 2016 held in Rach Gia Vietnam The 36 revised full papers presented were carefully reviewed and selected from over 100 submissions The papers cover formal methods for self adaptive systems and discuss natural approaches and techniques for computation and communication      *SSC 10+2 Combined Higher Secondary Level (CHSL) 101 Speed Tests with Success Guarantee* Disha Experts, 2017-09-02 **SSC 10 2 Combined Higher Secondary Level CHSL 101 Speed Tests with Success Guarantee IF YOU MASTER THIS BOOK SUCCESS IS GUARANTEED IN THE UPCOMING SSC CGL EXAM** Yes it s true If you can master this book you will crack the SSC Combined Graduate Level Tier I Tier II Exam for sure The book is the 1st and the Most Innovative Book and makes you feel comfortable Since things are well structured and executed It gives you a proper channel for preparing and guiding you to do things as per these 101 TESTS It contains questions on all the IMPORTANT CONCEPTS which are required to crack this exam The concepts are covered in the form of 101 SPEED TESTS No matter where you PREPARE from a coaching or any textbook Guide 101 SPEED TESTS provides you the right ASSESSMENT on each topic Your performance provides you the right cues to IMPROVE your concepts so as to perform better in the final examination It is to be noted here that these are not mere tests but act as a checklist of student s learning and ability to apply concepts to different problems The book is based on the concept of TRP Test Revise and Practice It aims at improving your SPEED followed by STRIKE RATE which will eventually lead to improving your SCORE How is this product different 1st unique product with 101 speed tests Each test is based on small topics which are most important for the SSC 10 2 Combined Higher Secondary Level CHSL Exam Each test contains around 30 MCQs on the latest pattern of the exam depending upon its importance for the exam The whole syllabus has been divided into 4 sections which are further distributed into 100 topics 1 Quantitative Aptitude is distributed into 28 topics 2 Reasoning is distributed into 28 topics 3 General English is distributed into 14 topics 4 General Awareness is distributed into 28 topics In the end of each section a Sectional Test is provided so as to sum up the whole section So 1 sectional Test each for Quantitative Aptitude Reasoning General English and General Awareness Finally at the end a FULL TEST is provided so as to give the candidates the real feel of the final exam In all the book contains 3250 Quality MCQ s in the form of 101 tests Solutions to each of the 101 tests are provided at the end of the book Separate Time Limit Maximum Marks Cut off Qualifying Score is provided for each test The book also provides a separate sheet SCORE TRACKER where you can keep a record of your scores and performance It is advised that the students should take each test very seriously and must attempt only after they have prepared that topic The General Awareness section has been updated latest Current Affairs Once taken a test the candidates must spend time in analysing their performance which will provide you the right cues to IMPROVE the concepts so as to perform better in the final examination It is our strong belief that if an aspirant works

hard on the cues provided through each of the tests he she can improve his her learning and finally the SCORE by at least 15 20%

**School Rethink 2.0** Frederick M. Hess, Michael B. Horn, Juliet Squire, 2025-02-12 Ten brilliant approaches that are disrupting US education and actionable advice for their broader implementation

**Media Studies 2.0** William Merrin, 2014-03-21 Media Studies 2 0 offers an exploration of the digital revolution and its consequences for media and communication studies arguing that the new era requires an upgraded discipline a media studies 2 0 The book traces the history of mass media and computing exploring their merger at the end of the twenty century and the material ecological cultural and personal elements of this digital transformation It considers the history of media and communication studies arguing that the academic discipline was a product of the analogue broadcast era emerging in the early twentieth century as a response to the success of newspapers radio and cinema and reflecting that era back in its organisation themes and concepts Digitalisation however takes us beyond this analogue era media studies 1 0 into a new post broadcast era Merrin argues that the digital era demands an upgraded academic discipline one reflecting the real media life of its students and teaching the key skills needed by the twenty first century user Media 2 0 demand a media studies 2 0 This original and critical overview of contemporary developments within media studies is ideal for general students of media and communication as well as those specifically studying new and digital media

The Times Index , 2013-05 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement

**Origin of Turbulence** Hua-Shu Dou, 2022-03-25 This book presents the new discovery of the origin of turbulence from Navier Stokes equations The fully developed turbulence is found to be composed of singularities of flow field The mechanisms of flow stability and turbulent transition are described using the energy gradient theory which states all the flow instability and breakdown resulted from the gradient of the total mechanical energy normal to the flow direction This approach is universal for flow instability in Newtonian flow and non Newtonian flow The theory has been used to solve several problems such as plane and pipe Poiseuille flows plane Couette flow Taylor Couette flow flows in straight coaxial annulus flows in curved pipes and ducts thermal convection flow viscoelastic flow and magnet fluid flow etc The theory is in agreement with results from numerical simulations and experiments The analytical method used in this book is novel and is different from the traditional approaches This book includes the fundamental basics of flow stability and turbulent transition the essentials of the energy gradient theory and the applications of the theory to several practical problems This book is suitable for researchers and graduate students

**Reign of Error** Diane Ravitch, 2014-08-26 From one of the foremost authorities on education in the United States former U S assistant secretary of education an incisive comprehensive look at today s American school system that argues against those who claim it is broken and beyond repair an impassioned but reasoned call to stop the privatization movement that is draining students and funding from our public schools In a chapter by chapter breakdown she puts forth a plan for what can be done to preserve and improve our public

schools She makes clear what is right about U S education how policy makers are failing to address the root causes of educational failure and how we can fix it      Optimization and Learning Bernabé Dorronsoro,Lionel Amodeo,Mario Pavone,Patricia Ruiz,2021-08-16 This volume constitutes the refereed proceedings of the 4th International Conference on Optimization and Learning OLA 2021 held in Catania Italy in June 2021 Due to the COVID 19 pandemic the conference was held online The 27 full papers were carefully reviewed and selected from 62 submissions The papers presented in the volume are organized in topical sections on synergies between optimization and learning learning for optimization machine learning and deep learning transportation and logistics optimization applications of learning and optimization methods      Cloud Computing and Security Xingming Sun,Zhaoqing Pan,Elisa Bertino,2018-09-12 This six volume set LNCS 11063 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security ICCCS 2018 held in Haikou China in June 2018 The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions The papers cover ideas and achievements in the theory and practice of all areas of inventive systems which includes control artificial intelligence automation systems computing systems electrical and informative systems The six volumes are arranged according to the subject areas as follows cloud computing cloud security encryption information hiding IoT security multimedia forensics      **Introduction to Tropical Geometry** Diane Maclagan,Bernd Sturmfels,2015-04-15 Tropical geometry is a combinatorial shadow of algebraic geometry offering new polyhedral tools to compute invariants of algebraic varieties It is based on tropical algebra where the sum of two numbers is their minimum and the product is their sum This turns polynomials into piecewise linear functions and their zero sets into polyhedral complexes These tropical varieties retain a surprising amount of information about their classical counterparts Tropical geometry is a young subject that has undergone a rapid development since the beginning of the 21st century While establishing itself as an area in its own right deep connections have been made to many branches of pure and applied mathematics This book offers a self contained introduction to tropical geometry suitable as a course text for beginning graduate students Proofs are provided for the main results such as the Fundamental Theorem and the Structure Theorem Numerous examples and explicit computations illustrate the main concepts Each of the six chapters concludes with problems that will help the readers to practice their tropical skills and to gain access to the research literature      Debates in Mathematics Education Gwen Ineson,Hilary Povey,2020-06-15 This new and updated second edition of Debates in Mathematics Education explores the major issues that mathematics teachers encounter in their daily lives By engaging with established and contemporary debates this volume promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding Divided into five accessible sections this book investigates and offers fresh insight into topics of central importance in mathematics education with this second edition including new discussions and chapters on Classic and contemporary issues of pedagogy



politics philosophy and sociology of mathematics education International comparisons of achievement Digital technologies for teaching Mastery in mathematics Pop culture and mathematics Whether mathematics can be harmful Designed to stimulate discussion and support you in your own research writing and practice through suggested questions and activities throughout Debates in Mathematics Education will be a valuable resource for any student or practising teacher and those engaged in initial teacher education continuing professional development or Master s level study This book also has much to offer to those leading mathematics departments in schools and initial teacher education programmes and to beginning doctoral students looking for a survey of the field of mathematics education research

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web f silica bonded investment consist of powdered quartz or cristobalite which is bonded together with silica gel silica gel is formed by mixing ethyl silicate and dilute

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web a casting investment with ethyl silicate or a silica gel as a binder the latter reverting to silica upon heating this is combined with cristobalite or quartz as the refractory

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web investment material a material consisting principally of an allotrope of silica and a bonding agent the bonding substance may be gypsum for use in lower casting temperatures or

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