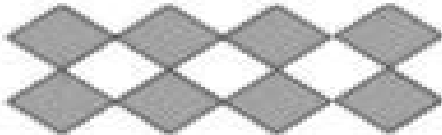


MINISTRY OF EDUCATION
NATIONAL GRADE SIX
MOCK ASSESSMENT # 1
MATHEMATICS
PAPER 2
MARK SCHEME

No.	SOLUTION	MARKS																												
1.	(a) Figure 4 of the pattern.  Figure 4 (b) (i) 14 grey tiles (ii) Figure 11 will have 22 grey tiles. (c) (i) Fill in the two missing spaces. <table><tr><th>Figure (n)</th><th>Grey tiles</th><th>White tiles</th><th>Total tiles (x)</th></tr><tr><td>1</td><td>2</td><td>0</td><td>2</td></tr><tr><td>2</td><td>4</td><td>1</td><td>5</td></tr><tr><td>3</td><td>6</td><td>2</td><td>8</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>5</td><td><u>10</u></td><td>4</td><td><u>14</u></td></tr></table> (ii) Rule for the pattern. 3 × n − 1 = x	Figure (n)	Grey tiles	White tiles	Total tiles (x)	1	2	0	2	2	4	1	5	3	6	2	8	-	-	-	-	-	-	-	-	5	<u>10</u>	4	<u>14</u>	1 K 1 K 1 AT 1 AT 1 R
Figure (n)	Grey tiles	White tiles	Total tiles (x)																											
1	2	0	2																											
2	4	1	5																											
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Marking Scheme Of Maths Paper 32 Core 2014

**Artur Zaporozhets, Mykhailo
Kulyk, Vitalii Babak, Viktor Denysov**

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Structure Optimization of Power Systems with Renewable Energy Sources Artur Zaporozhets, Mykhailo Kulyk, Vitalii Babak, Viktor Denysov, 2025-02-14 This book develops a method for economic technological forecasting of the optimal functioning and parameters of the energy system The relevance of this work is determined by current trends and challenges in the field of energy and sustainable development considering the following key points 1 transition to renewable energy Optimizing the structure of integrated energy systems with a focus on renewable energy sources and distributed generation is crucial for achieving sustainable development goals and mitigating climate change 2 Technological progress Continuous advancements in generation technologies energy storage and smart grid development provide new opportunities for the optimal integration of renewable energy into existing and new energy systems Models and tools that can promptly track the variability and intermittency of renewable sources are essential for making optimal management decisions to ensure the reliability and resilience of energy systems 3 Environmental impact Optimizing energy systems using renewable sources helps reduce greenhouse gas emissions and minimize negative environmental impacts 4 Integration of energy storage Effective use of energy storage technologies is a key aspect of optimizing energy systems with a high share of renewable energy sources Models that address the optimal integration of energy storage batteries and demand response strategies are crucial for maintaining the stability of electricity generation and supply 5 Social significance Research into models and means of optimizing the implementation of renewable energy can contribute to creating effective scenarios 6 Economic competitiveness Reducing the costs of renewable energy technologies combined with the potential savings from optimizing the operation modes of traditional generation makes the integration of renewable energy economically attractive Thus the task of developing new and improving existing methods and economic mathematical models for studying the directions and optimal parameters of the technological development of energy system elements is a relevant scientific problem that needs to be addressed

Core Concepts of Accounting Information Systems Mark G. Simkin, Carolyn A. Strand Norman, Jacob M. Rose, 2014-12-08 Knowing how an accounting information systems gather and transform data into useful decision making information is fundamental knowledge for accounting professionals Mark Simkin Jacob Rose and Carolyn S Norman s essential text Core Concepts of Accounting Information Systems 13th Edition helps students understand basic AIS concepts and provides instructors the flexibility to support how they want to teach the course

Progress in Modern Hydrology John C. Rodda, Mark Robinson, 2015-09-08 Hydrology is vital to human civilisations as well as to natural ecosystems yet it has only emerged as a distinct scientific discipline during the last 50 years or so This book reviews the development of modern hydrology primarily through the experiences of the multidisciplinary team of scientists and engineers at Wallingford near Oxford who have been at the forefront of many of the developments in UK hydrological research These topics include The development of basic understanding through the collection of data with specialised instrumentation in experimental basins

The study of extreme flows both floods and droughts The role moisture in the soil Studies of the processes controlling evaporation Water resource studies Modelling and prediction of the extremes of flow improved Understanding of water quality issues A widening recognition of the importance of an ecosystem approach Meeting the challenges of climate change Data handling Future developments in hydrology and the pressures which generate them Readership hydrologists in both academia and a wide range of applied fields such as civil engineering meteorology geography and physics as well as advanced students in earth science environmental science and physical geography programmes worldwide

Blockchain and its Applications in Industry 4.0 Suyel Namasudra,Kemal Akkaya,2023-03-09 This book discusses fundamentals of Blockchain technology and Industry 4 0 It discusses many applications of Blockchain technology in Industry 4 0 including integration of AI IoT and big data with Blockchain for Industry 4 0 It provides cutting edge research content from researchers academicians and other professionals from different background areas to show their state of the art knowledge to use Blockchain in Industry 4 0 The book discusses advantages of Industry 4 0 such as improved productivity improved efficiency flexibility agility better user experience and many more and also entails some challenges too such as trust traceability security reliability transparency etc for creating an application of Industry 4 0 The book helps graduate postgraduate doctoral students and industrial professionals to implement Blockchain in Industry 4 0

Data-Driven Evolutionary Modeling in Materials Technology Nirupam Chakraborti,2022-09-15 Due to efficacy and optimization potential of genetic and evolutionary algorithms they are used in learning and modeling especially with the advent of big data related problems This book presents the algorithms and strategies specifically associated with pertinent issues in materials science domain It discusses the procedures for evolutionary multi objective optimization of objective functions created through these procedures and introduces available codes Recent applications ranging from primary metal production to materials design are covered It also describes hybrid modeling strategy and other common modeling and simulation strategies like molecular dynamics cellular automata etc Features Focuses on data driven evolutionary modeling and optimization including evolutionary deep learning Include details on both algorithms and their applications in materials science and technology Discusses hybrid data driven modeling that couples evolutionary algorithms with generic computing strategies Thoroughly discusses applications of pertinent strategies in metallurgy and materials Provides overview of the major single and multi objective evolutionary algorithms This book aims at Researchers Professionals and Graduate students in Materials Science Data Driven Engineering Metallurgical Engineering Computational Materials Science Structural Materials and Functional Materials

Alan Turing: The Enigma Andrew Hodges,2014-11-10 A NEW YORK TIMES BESTSELLER The official book behind the Academy Award winning film The Imitation Game starring Benedict Cumberbatch and Keira Knightley It is only a slight exaggeration to say that the British mathematician Alan Turing 1912 1954 saved the Allies from the Nazis invented the computer and artificial intelligence and anticipated gay liberation by decades all before his suicide at age forty one This New

York Times bestselling biography of the founder of computer science with a new preface by the author that addresses Turing's royal pardon in 2013 is the definitive account of an extraordinary mind and life Capturing both the inner and outer drama of Turing's life Andrew Hodges tells how Turing's revolutionary idea of 1936 the concept of a universal machine laid the foundation for the modern computer and how Turing brought the idea to practical realization in 1945 with his electronic design The book also tells how this work was directly related to Turing's leading role in breaking the German Enigma ciphers during World War II a scientific triumph that was critical to Allied victory in the Atlantic At the same time this is the tragic account of a man who despite his wartime service was eventually arrested stripped of his security clearance and forced to undergo a humiliating treatment program all for trying to live honestly in a society that defined homosexuality as a crime The inspiration for a major motion picture starring Benedict Cumberbatch and Keira Knightley Alan Turing The Enigma is a gripping story of mathematics computers cryptography and homosexual persecution *Transactions of the American Institute of Electrical Engineers* American Institute of Electrical Engineers, 1960 Index of current electrical literature Dec 1887 appended to v 5 **Instruments and Automation** ,1958 *Proceedings of the IRE*. Institute of Radio Engineers, 1955 *Instruments, Industrial, Scientific* ,1958

Marking Scheme Of Maths Paper 32 Core 2014: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Marking Scheme Of Maths Paper 32 Core 2014 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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