

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

No.	SOLUTION	MARKS																												
1.	<p>(a) Figure 4 of the pattern.</p> <div></div> <p style="text-align: center;">Figure 4.</p> <p>(b) (i) 14 grey tiles</p> <p>(ii) Figure 11 will have 22 grey tiles.</p> <p>(c) (i) Fill in the two missing spaces.</p> <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> <p>(ii) Rule for the pattern.</p> <div><div>3</div> × n − <div>1</div> = x</div>	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>	<p>1 K</p> <p>1 K</p> <p>1 AT</p> <p>1 AT</p> <p>1 R</p>
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>																											

# Mathematics Paper 97mark Scheme 2013

**Brendan G. Carr**



## **Mathematics Paper 97mark Scheme 2013:**

Oswaal CBSE Question Bank Class 9 Mathematics, Chapterwise and Topicwise Solved Papers For 2025 Exams Oswaal Editorial Board, 2024-02-03 Oswaal CBSE Question Bank Class 9 Mathematics Chapterwise and Topicwise Solved Papers For 2025 Exams **Open Problems in Algebraic Combinatorics** Christine Berkesch, Benjamin Brubaker, Gregg Musiker, Pavlo Pylyavskyy, Victor Reiner, 2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics **Crack Civil Services in First Attempt** Divey Sethi, 2024-09-09 Looking to crack the Civil Services exam in your first attempt Look no further than this book titled as Crack Civil Services in First Attempt by Divey Sethi IRS This comprehensive course is designed to help UPSC aspirants achieve success by providing expert guidance and valuable insights Divey Sethi an IRS officer will share his strategies and techniques to help you ace the exam Don't miss this opportunity to fulfill your dream of becoming a civil servant **The Perfect Bet** Adam Kucharski, 2016-02-23 An elegant and amusing account of how gambling has been reshaped by the application of science and revealed the truth behind a lucky bet Wall Street Journal For the past 500 years gamblers led by mathematicians and scientists have been trying to figure out how to pull the rug out from under Lady Luck In The Perfect Bet mathematician and award winning writer Adam Kucharski tells the astonishing story of how the experts have succeeded revolutionizing mathematics and science in the process The house can seem unbeatable Kucharski shows us just why it isn't Even better he demonstrates how the search for the perfect bet has been crucial for the scientific pursuit of a better world Large Deviations and Asymptotic Methods in Finance Peter K. Friz, Jim Gatheral, Archil Gulisashvili, Antoine Jacquier, Josef Teichmann, 2015-06-16 Topics covered in this volume large deviations differential geometry asymptotic expansions central limit theorems give a full picture of the current advances in the application of asymptotic methods in mathematical finance and thereby provide rigorous solutions to important mathematical and financial issues such as implied volatility asymptotics local volatility extrapolation systemic risk and volatility estimation This volume gathers together ground breaking results in this field by some of its leading experts Over the past decade asymptotic methods have played an increasingly important role in the study of the behaviour of financial models These methods provide a useful alternative to numerical methods in settings where the latter may lose

accuracy in extremes such as small and large strikes and small maturities and lead to a clearer understanding of the behaviour of models and of the influence of parameters on this behaviour Graduate students researchers and practitioners will find this book very useful and the diversity of topics will appeal to people from mathematical finance probability theory and differential geometry

Assessing Contexts of Learning Susanne Kuger,Eckhard Klieme,Nina Jude,David Kaplan,2016-12-05 This volume brings together educational effectiveness research and international large scale assessments demonstrating how the two fields can be applied to inspire and improve each other and providing readers direct links to instruments that cover a broad range of topics and have been shown to work in more than 70 countries The book s initial chapters introduce and summarize recent discussions and developments in the conceptualization implementation and evaluation of international large scale context assessments and provide an outlook on possible future developments Subsequently three thematic sections Student Background Outcomes of Education Beyond Achievement and Learning in Schools each present a series of chapters that provide the conceptual background for a wide range of important topics in education research policy and practice Each chapter defines a conceptual framework that relates recent findings in the educational effectiveness research literature to current issues in education policy and practice These frameworks were used to develop interesting and relevant indicators that may be used for meaningful reporting from international assessments other cross cultural research or national studies Using the example of one particular survey the Programme for International Student Assessment PISA 2015 this volume links all theoretical considerations to fully developed questionnaire material that was field trailed and evaluated in questionnaires for students and their parents as well as teachers and principals in their schools The primary purposes of this book are to inform readers about how education effectiveness research and international large scale assessments are already interacting to inform research and policymaking to identify areas where a closer collaboration of both fields or input from other areas could further improve this work to provide sound theoretical frameworks for future work in both fields and finally to relate these theoretical debates to currently available and evaluated material for future context assessments

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Index to IEEE Publications Institute of Electrical and Electronics Engineers,1977 Issues for 1973 cover the entire IEEE technical literature

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