

**Class - X Session 2022-23**  
**Subject - Mathematics (Basic)**  
**Sample Question Paper**

**Time Allowed: 3 Hours**

**Maximum Marks: 80**

**General Instructions:**

1. This Question Paper has 5 Sections A, B, C, D, and E.
2. Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each.
3. Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.
4. Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.
5. Section D has 4 Long Answer (LA) type questions carrying 5 marks each.
6. Section E has 3 Case Based integrated units of assessment (4 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 2 marks, 2 Qs of 3 marks and 2 Questions of 5 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take  $\pi = 22/7$  wherever required if not stated.

	<b>Section A</b>	
	<b>Section A consists of 20 questions of 1 mark each.</b>	
<b>SN</b>		<b>Ma rks</b>
1	<p>If two positive integers p and q can be expressed as <math>p = ab^2</math> and <math>q = a^3b</math>; a, b being prime numbers, then LCM (p, q) is</p> <p>(a) ab                                      (b) <math>a^2b^2</math>                                      (c) <math>a^3b^2</math>                                      (d) <math>a^3b^3</math></p>	1
2	<p>What is the greatest possible speed at which a man can walk 52 km and 91 km in an exact number of hours?</p> <p>(a) 17 km/hours                                      (b) 7 km/hours (c) 13 km/hours                                      (d) 26 km/hours</p>	1
3	<p>If one zero of the quadratic polynomial <math>x^2 + 3x + k</math> is 2, then the value of k is</p> <p>(a) 10                                      (b) -10                                      (c) 5                                      (d) -5</p>	1
4	<p>Graphically, the pair of equations given by  <math>6x - 3y + 10 = 0</math>  <math>2x - y + 9 = 0</math>  represents two lines which are</p> <p>(a) intersecting at exactly one point.                                      (b) parallel. (c) coincident.                                      (d) intersecting at exactly two points.</p>	1

# The Of October2013 Maths Paper

**June Yap**



## **The Of October 2013 Maths Paper:**

**Retrospective** June Yap, 2017-08-15 Developed as an exploratory study of artworks by artists of Singapore and Malaysia Retrospective attempts to account for contemporary artworks that engage with history These are artworks that reference past events or narratives of the nation and its art Through the examination of a selection of artworks produced between 1990 and 2012 Retrospective is both an attribution and an analysis of a historiographical aesthetic within contemporary art practice It considers that by their method and in their assembly these artworks perform more than a representation of a historical past Instead they confront history and its production laying bare the nature and designs of the historical project via their aesthetic project Positing an interdisciplinary approach as necessary for understanding the historiographical as aesthetic Retrospective considers not only historical and aesthetic perspectives but also the philosophical by way of ontology in order to broaden its exposition beyond the convention of historical and contextual interpretation of art Yet in associating these artworks with a historiographical aesthetic this exposition may be regarded as a historiographical exercise in itself affirming the significance of these artworks for the history of Singapore and Malaysia In short which history rarely is Retrospective is about the art of historicisation and the historicisation of art

**Messy Maths** Juliet Robertson, 2017-07-12 In Messy Maths A Playful Outdoor Approach for Early Years Juliet Robertson offers a rich resource of ideas that will inspire you to tap into the endless supply of patterns textures colours and quantities of the outdoors and deepen children s understanding of maths through hands on experience Juliet believes being outside makes maths real In the classroom environment maths can seem disconnected from everyday reality but real maths is really messy Lots of outdoor play and engaging activity along the way is a must as being outside enables connections to be made between the hands heart and head and lays the foundations for more complex work as children grow develop and learn Following on from the success of Dirty Teaching ISBN 978 178135107 9 Messy Maths reimagines the outdoor space through a mathematical lens providing a treasure trove of suggestions that will empower you to blend outdoor learning into your teaching practice It is not a how to guide but rather an easy to use reference book replete with ready to use games and open ended ideas designed to help children become confident and skilled in thinking about using and exploring abstract mathematical concepts as they play outside Many of these ideas and activities are also beautifully displayed in full colour photographs throughout the book making it even easier to jump straight into outstanding outdoor learning opportunities Topics covered include general advice exploring numbers number functions and fractions money measurement time pattern shape and symmetry position direction and movement data handling routines and the mathematical garden Each chapter features a section on topic specific vocabulary and expressions to help you integrate terminology into each area of study while suggestions for embedding maths into routines are also provided to assist in the development of creative progressive and flexible approaches to everyday situations Messy Maths is suitable for early years educators of ages 3 to 6 who want to shake up their usual classroom

practice and make the most of any outdoor space whether this be a nursery playgroup child minder's back garden or a nature kindergarten as a context for maths Messy Maths has been named the Gold Winner in the Mathematics category of the Nursery World Equipment Resources Awards 2019 Messy Maths has been named the Silver Winner in the Outdoor Play category and Professional Books and authors category of the Nursery World Equipment Resources Awards 2019 Messy Maths was a 2017 Foreword INDIES Finalist in the Education category Messy Maths has been named a Gold Winner in the IBPA Benjamin Franklin Awards 2018 in the Education category Messy Maths is a finalist in the 2018 Education Resources Awards in the Educational Book Award category

**It's TIME** National Council of Supervisors of Mathematics, 2014-03-04 Help all students become high achieving mathematics learners Gain a strong understanding of mathematics culture and learn necessary best practices to fully align curriculum and instruction with the CCSS for mathematics You'll explore the factors that have traditionally limited mathematics achievement for students and discover practical strategies for creating an environment that supports mathematics learning and instruction

*Algorithmic Aspects of Cloud Computing* Dan Alistarh, Alex Delis, George Pallis, 2018-01-28 This book constitutes the thoroughly refereed post conference proceedings of the Second International Workshop on Algorithmic Aspects of Cloud Computing ALGO-CLOUD 2017 held in Vienna Austria in September 2017 The 9 revised full papers were carefully reviewed and selected from 27 submissions The aim of the workshop is to present research activities and results on topics related to algorithmic design and development aspects of modern cloud based systems

**Curious Learners in Primary Maths, Science, Computing and DT** Alan Cross, Alison Borthwick, Karen Beswick, Jon Board, Jon Chippindall, 2016-09-19 Whether it is in the National Curriculum or the Teachers Standards promotion of children's curiosity is highlighted as a key part of effective teaching Curiosity has the potential to enhance learning in all curriculum subjects but it has a special connection with scientific thinking A curious approach can open up learning in science computing design technology and mathematics This text explores how teachers can harness the power of curiosity in their classroom Full of practical teaching ideas for engaging learners and making lessons more exciting it highlights the ways in which STEM subjects can be taught together Coverage includes the place of curiosity in subject teaching how curiosity contributes to a learner's overall capability examples of curiosity in primary STEM classes case studies which exemplify curiosity

**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

**Neutrosophic Sets and Systems, Vol. III** Florentin Smarandache, Mumtaz Ali, This

volume is a collection of ten papers written by different authors and co authors listed in the order of the papers F Yuhua A A Salama F Smarandache S A Alblowi M Ali M Shabir M Naz A A A Agboola S A Akinleye M Dhar S Broumi P Biswas S Pramanik B C Giri H A El Ghareeb A M Maine V Kandasamy P Sekar and J Vidhyalakshmi In first paper the author proposed Expanding Newton Mechanics with Neutrosophy and Quad stage Method New Newton Mechanics Taking Law of Conservation of Energy as Unique Source Law The Characteristic Function of a Neutrosophic Set is proposed in the second paper Neutrosophic Left Almost Semigroup is studied in third paper In fourth paper Neutrosophic Hypercompositional Structures defined by Binary Relations are introduced Similarly in fifth paper A Note on Square Neutrosophic Fuzzy Matrices are discussed In paper six A New Methodology for Neutrosophic Multi Attribute Decision Making with Unknown Weight Information is presented by the authors Introduction to Develop Some Software Programs for dealing with Neutrosophic Sets is given in seventh paper Paper eight is about to Soft Neutrosophic Ring and Soft Neutrosophic Field In the next paper Rough Neutrosophic Sets are discussed The authors introduced new type of Fuzzy Relational Equations and Neutrosophic Relational Equations To Analyze Customer Preference to street shops in the last paper

**Handbook of Contemporary Education Economics** Geraint Johnes, Jill Johnes, Tommaso Agasisti, Laura López-Torres, 2017-12-29 This Handbook provides a comprehensive overview of the modern economics of education literature bringing together a series of original contributions by globally renowned experts in their fields Covering a wide variety of topics each chapter assesses the most recent research with an emphasis on skills evaluation and data analytics

Topics and Trends in Current Statistics Education Research Gail Burrill, Dani Ben-Zvi, 2018-12-29 This book focuses on international research in statistics education providing a solid understanding of the challenges in learning statistics It presents the teaching and learning of statistics in various contexts including designed settings for young children students in formal schooling tertiary level students and teacher professional development The book describes research on what to teach and platforms for delivering content curriculum strategies on how to teach for deep understanding and includes several chapters on developing conceptual understanding pedagogy and technology teacher knowledge and beliefs and the challenges teachers and students face when they solve statistical problems reasoning and thinking This new research in the field offers critical insights for college instructors classroom teachers curriculum designers researchers in mathematics and statistics education as well as policy makers and newcomers to the field of statistics education Statistics has become one of the key areas of study in the modern world of information and big data The dramatic increase in demand for learning statistics in all disciplines is accompanied by tremendous growth in research in statistics education Increasingly countries are teaching more quantitative reasoning and statistics at lower and lower grade levels within mathematics science and across many content areas Research has revealed the many challenges in helping learners develop statistical literacy reasoning and thinking and new curricula and technology tools show promise in facilitating the achievement of these desired outcomes

*The Mathematical Playground* Alissa S.

Crans, Glen T. Whitney, 2024-07-25 Welcome to The Mathematical Playground a book celebrating more than thirty years of the problems column in the MAA undergraduate magazine Math Horizons Anecdotes interviews and historical sketches accompany the puzzles conveying the vibrancy of the Playground community The lively prose and humor used throughout the book reveal the enthusiasm and playfulness that have become the column's hallmark Each chapter features a theme that helps illustrate community from the Opening Acts chronicling how interesting questions snowball into original research to the Posers and Solvers themselves These stories add an engaging dimension beyond the ample mathematical challenge A particular highlight is a chapter introducing the seven editors who have produced The Playground revealing the perspectives of the individuals behind the column The Mathematical Playground has plenty to offer both novice and experienced solvers The lighthearted conversational style together with copious hints a problem solving primer and a detailed glossary welcomes newcomers regardless of their background to the puzzle solving world The more seasoned solver will find over twenty new problems plus open ended challenges and suggestions for further investigation Whether you're a long time Math Horizons reader or encountering The Playground for the first time you are invited into this celebration of the rich culture of recreational mathematics Just remember the most important rule Have fun

**Numeracy and Learning Difficulties** Peter Westwood, 2016-09-01 Numeracy and Learning Difficulties provides guidance on how to develop flexible teaching methods and strategies to improve mathematical skills of students It discusses common areas of learning difficulty in mathematics and looks at ways teachers can determine gaps in students knowledge as well as how to develop curricula and problem solving strategies to address these gaps

**The Rise of the Female Executive** Peninah Thomson, Tom Lloyd, Clare Laurent, 2015-10-12 Provides a timely review of gender equality in the boardroom and through interviews with mentors and mentees it illustrates how mentoring can play a part in helping women stay engaged in their career This book includes international comparisons and an examination of the UK and EU political environments

**Conference proceedings. New perspectives in science education** Pixel, 2014

**How the Brain Learns Mathematics** David A. Sousa, 2014-11-13 To reach all your math students use your brain and theirs too This updated bestseller takes readers to the next level with new brain friendly strategies backed by the latest research and even more ways to seamlessly incorporate what you learn about your students developing minds into your math classroom Discover the cognitive mechanisms for learning math explore factors that contribute to learning difficulties and follow a four step teaching model that relates classroom experience to real world applications Features include New strategies for motivating adolescents Integration of the arts into mathematics instruction New information on how technology affects attention and memory Expanded sections on number sense and ELL instruction More than 160 new references

**Education in South America** Simon Schwartzman, 2015-07-02 Education in South America is a critical reference guide to development of education in Argentina Bolivia Brazil Chile Colombia Ecuador Paraguay Peru Uruguay and Venezuela The chapters written by local experts provide an overview of the education system in

each country focusing particularly on policies and implementation of reforms Key themes include quality and access multicultural education and the management of education systems Including a comparative introduction to the issues facing education in the region as a whole and guides to available online datasets this book is an essential reference for researchers scholars international agencies and policy makers

**Going Mobile** Darrell M. West, 2014-12-12 The world is going mobile at an astounding pace Estimates show 80 percent of global Internet access will take place through mobile devices by 2016 Smartphones tablets and handheld devices have reshaped communications the global economy and the very way in which we live The revolution is an electronic nirvana for the first time in human history we have sophisticated digital applications to help us learn access financial and health care records connect with others and build businesses But the one trillion dollar mobile industry is still relatively young Leaders in both the public and private sectors need to figure out how to apply mobile technologies or mobile devices to optimize education health care public safety disaster preparedness and economic development And the ever expanding mobile frontier presents new challenges to law policy and regulations and introduces new tensions one person's idea of cautious deliberation can be another's idea of a barrier to innovation In *Going Mobile* Darrell M West breaks down the mobile revolution and shows how to maximize its overall benefits in both developed and emerging markets Contents 1 The Emergence of Mobile Technology 2 Driving Global Entrepreneurship 3 Alleviating Poverty 4 Invention and the Mobile Economy 5 Mobile Learning 6 Improving Health Care 7 Medical Devices and Sensors 8 Shaping Campaigns and Public Outreach 9 Disaster Relief and Public Safety 10 Looking Ahead

Teaching Secondary Mathematics Gregory Hine, Robyn Reaburn, Judy Anderson, Linda Galligan, Colin Carmichael, Michael Cavanagh, Bing Ngu, Bruce White, 2016-08-15 Technology plays a crucial role in contemporary mathematics education *Teaching Secondary Mathematics* covers major contemporary issues in mathematics education as well as how to teach key mathematics concepts from the Australian Curriculum Mathematics It integrates digital resources via Cambridge HOTmaths [www.hotmaths.com.au](http://www.hotmaths.com.au) a popular award winning online tool with engaging multimedia that helps students and teachers learn and teach mathematical concepts This book comes with a free twelve month subscription to Cambridge HOTmaths Each chapter is written by an expert in the field and features learning outcomes definitions of key terms and classroom activities including HOTmaths activities and reflective questions *Teaching Secondary Mathematics* is a valuable resource for pre service teachers who wish to integrate contemporary technology into teaching key mathematical concepts and engage students in the learning of mathematics

Third Wave Capitalism John Ehrenreich, 2016-04-05 In *Third Wave Capitalism* John Ehrenreich documents the emergence of a new stage in the history of American capitalism Just as the industrial capitalism of the nineteenth century gave way to corporate capitalism in the twentieth recent decades have witnessed corporate capitalism evolving into a new phase which Ehrenreich calls Third Wave Capitalism Third Wave Capitalism is marked by apparent contradictions Rapid growth in productivity and lagging wages fabulous wealth for the 1 percent and the persistence of high levels of poverty

increases in the standard of living and increases in mental illness personal misery and political rage the apotheosis of the individual and the deterioration of democracy increases in life expectancy and out of control medical costs an African American president and the incarceration of a large percentage of the black population Ehrenreich asserts that these phenomena are evidence that a virulent individualist winner take all ideology and a virtual fusion of government and business have subverted the American dream Greed and economic inequality reinforce the sense that each of us is on our own The result is widespread lack of faith in collective responses to our common problems The collapse of any organized opposition to business demands makes political solutions ever more difficult to imagine Ehrenreich traces the impact of these changes on American health care school reform income distribution racial inequities and personal emotional distress Not simply a lament Ehrenreich s book seeks clues for breaking out of our current stalemate and proposes a strategy to create a new narrative in which change becomes possible

**Progressivism in America** David B. Woolner, John M. Thompson, 2016 This book is the first to offer a comprehensive overview of progressive politics in America It combines historical analysis policy prescriptions and a survey of the principal challenges Featuring essays by some of the leading scholars analysts and commentators it is indispensable for anyone interested in American politics

**Kochi Journal of Mathematics** ,2014



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