

CBSE Class 12 Maths Sample Paper Set 1

Time: 3 hours

Total Marks: 100

1. All questions are compulsory.
2. The question paper consist of 29 questions divided into four sections A, B, C and D. Section A comprises of 4 questions of one mark each, section B comprises of 8 questions of two marks each, section C comprises of 11 questions of four marks each and section D comprises of 6 questions of six marks each.
3. Use of calculators is not permitted.

SECTION – A

1. Find the inverse of $g: R \rightarrow R, g(x) = 4e^{2x} + 3$ and the domain of the $g^{-1}(x)$
2. What should be the value of n for which the points $(2, -3)$, $(3, 1)$ and $(5, n)$ are collinear?
3. If X is a set of the factors of 30, $a, b \in X$ and $f(a, b, c) = (a + b) * (b' + c)$ where
 - (i) $a + b$ is defined such that $a + b = \text{LCM}(a, b)$
 - (ii) $a * b$ is defined such that $a * b = \text{GCD}(a, b)$
 - (iii) $a' = 30/a$

What is the value of $f(2, 5, 15)$?

4. A parallelogram is constructed on $3\vec{a} + \vec{b}$ and $\vec{a} - 4\vec{b}$ where $\vec{a} = 6$ and $\vec{b} = 8$ and $\vec{a}$ and $\vec{b}$ are anti-parallel. What is the length of the longer diagonal?

(OR)

If $\vec{a} = \vec{i} + \vec{j} + \vec{k}, \vec{b} = \vec{i} - \vec{j} + 2\vec{k}$ and $\vec{c} = x\vec{i} + (x - 2)\vec{j} - \vec{k}$, and if the vector lies in the plane of vectors $\vec{a}$ and $\vec{b}$, then what is the value of x ?

SECTION – B

5. Express the matrix $A = \begin{bmatrix} 3 & 7 \\ 1 & 4 \end{bmatrix}$ as sum of two matrices such that one is symmetric and the other is skew symmetric.

(OR)

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Maths Handbook & Study Guide Grade 12 Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book. The book is written in a clear, simple, visual and logical manner. The colour coding facilitates explanations, definitions, formulas, recaps of previous work, hints and ideas. It is easy to read, easy to understand, and it is easy to apply what has been learnt. It works in conjunction with all other Maths books. It is a welcome addition to the Handbook and Study Guide series. The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject. The sub title of the book is Maths Made Easy, and this is what it aims to do. Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students. There are exercises in the front of the book and solutions to problems at the back. **Maths**

Handbook & Study Guide Grade 12: Teacher's Guide and Answer Book Kevin Smith, 2014-01-01 Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook. Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook. **Maths Handbook and Study Guide Grade 11**

Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book. The book is written in a clear, simple, visual and logical manner. The colour coding facilitates explanations, definitions, formulas, recaps of previous work, hints and ideas. It is easy to read, easy to understand, and it is easy to apply what has been learnt. It works in conjunction with all other Maths books. It is a welcome addition to the Handbook and Study Guide series. The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject. The sub title of the book is Maths Made Easy, and this is what it aims to do. Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students. There are exercises in the front of the book and solutions to problems at the back. *FCI Phase-II Exam (Paper-1) : Assistant Grade-III (General/Depot)*

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Math Tools, Grades 3-12 Harvey F. Silver, John R. Brunsting, Terry Walsh, 2008 Math Tools Grades 3-12 presents a broad collection of mathematics instruction tools that promote active, in-depth learning and help ensure that all students meet high standards. The authors, experts with years of experience in mathematics education, combine the research on learning styles with 64 classroom-tested tools and show teachers how to use them to differentiate instruction and meet the

needs of all students Organized around four mathematical learning styles mastery understanding self expressive and interpersonal this resource also covers lesson design and assessment using the math tools *Popular Science* ,2005-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **The Routledge International Handbook of Teacher and School Development** Christopher Day,2012-06-25 The International Handbook of Teacher and School Development brings together a collection of research and evidence based authoritative writings which focus on international teacher and school development Drawing on research from eighteen countries across seven continents the forty chapters are grouped into ten themes which represent key aspects of teacher and school development Issues of Professionalism and Performativity What Being an Effective Teacher Really Means Reason and Emotion in Teaching Schools in Different Circumstances Student Voices in a Global Context Professional Learning and Development Innovative Pedagogies School Effectiveness and Improvement Successful Schools Successful Leader Professional Communities their practices problems possibilities Each theme expertly adds to the existing knowledge base about teacher and school development internationally They are individually important in shaping and understanding an appreciation of the underlying conditions which influence teachers and schools both positively and negatively and the possibilities for their further development This essential handbook will be of interest to teacher educators researchers in the field of teacher education and policy makers **X-kit Fet G10 Mathematics** , *Working Mother* ,2002-10 The magazine that helps career moms balance their personal and professional lives *Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England* OECD,2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country s policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education PISA A Review of International Large-Scale Assessments in Education Assessing Component Skills and Collecting Contextual Data Cresswell John,Schwantner Ursula,Waters Charlotte,2015-12-11 The OECD has initiated PISA for Development PISA D in response to the rising need of developing countries to collect data about their education systems and the capacity of their student bodies *New Maths in Action S3/3 Teacher Resource Pack* Harvey Douglas Brown,2004-06 This series offers complete coverage of Standard Grade targets in a carefully considered order and is written by authors of New Maths in Action S1 and S2 to ensure progression from 5 14 There are three Teacher Resource Packs available for each year providing complete support for each of the Student Books *Getting Schools Working* Nick Taylor,Johan Muller,Penny

Vinjevold,2003 A systematic review of research projects into the state of education in South Africa **Quality education**

Muchativugwa L. Hove,Martha Matashu,2021-11-30 This book investigates the intersections between education social justice gendered violence and human rights in South African schools and universities The rich and multifarious tapestry of scholarship and literature emanating from South African classrooms provides a fascinating lens through which we can understand the complex consequences of the economies of education social justice imperatives gendered violence in the lives of women and children and marginalised communities The scholarship in the book challenges readers to imagine alternative futures predicated on the transformational capacity of a democratic South Africa Contributors to this volume examine the many ways in which social justice and gendered violence mirror express project and articulate the larger phenomenon of human rights violations in Africa and how in turn the discourse of human rights informs the ways in which we articulate interrogate conceptualise enact and interpret quality education The book also wrestles with the linguistic contradictions and ambiguities in the articulation of quality education in public and private spaces This book is essential reading for scholars seeking a solid grounding in exploring quality education the instances of epistemic disobedience the political implications of place and power and human rights in theory and practice **Examcart CTET Paper 2 (Class 6 to 8) Maths & Science Solved Papers Book By Prateek Shivalik For 2025 Exam In English** Examcart Experts, *Oswaal ISC 10 Sample Question Papers Class 12 (Set of 5 Books) Physics, Chemistry, Maths, English Paper 1 & 2 For 2025 Board Exam (Based On The Latest CISCE/ICSE Specimen Paper)* Oswaal Editorial Board,2024-09-09 Description of the product Fresh Relevant with the Latest ICSE Specimen Paper 2025 Score Boosting Insights with 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 5 Solved 5 Self Assessment Papers with Hints Online Courses with Oswaal 360 Courses and sample Papers to enrich the learning journey further Strictly as per the Latest Syllabus Specimen Paper 2025 Issued by CISCE Includes Competency Focused questions based on Bloom s Taxonomy Create Evaluate Analyse Apply Understand and Remember Official Marking Scheme Decoded **PAL Success with Maths Grade 2 ,2004** **Make the Grade at GCSE Mathematics Higher Tier** Anthony Nicolaidis,2005 **Math Stories For Problem Solving Success** James L. Overholt,Nancy H. Aaberg,James Lindsey,2008-03-07 This second edition of the popular math teaching resource book Math Stories for Problem Solving Success offers updated true to life situations designed to motivate teenagers to use math skills for solving everyday problems The book features intriguing short stories followed by sets of problems related to the stories that are correlated to the standards of the National Council of Teachers of Mathematics Each of the easy to read stories is followed by three increasingly difficult groups of problem sets This makes it simple for teachers to select the appropriate problem set for students of different abilities and at different grade levels To further enhance student involvement the stories feature recurring characters and can be used either sequentially or out of order The problems in the book cover many basic math topics including decimals fractions and percents measurement

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Dragon Gate Kangmin Zeng, 1999-01-01 This text examines the enormous pressure placed on University students in Japan Korea and Taiwan which have led to the rapid expansion of the cramming industry and to a growing number of students looking to religion and spirituality for guidance The book examines the issue of the rise in youth suicides and the dramatic rise in levels of cheating both raising fundamental questions about the education system in the late 1990s

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