

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 $\vec{a} = \hat{i} + \hat{j} + \hat{k}$, $\vec{b} = \hat{i} - \hat{j} + 2\hat{k}$ and $\vec{c} = x\hat{i} + (x - 2)\hat{j} - \hat{k}$, 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)

Maths Paper March Grade 124

**National Council of Teachers of
Mathematics**



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Resources in Education ,1998-12 **The Power of Bad** John Tierney,Roy F. Baumeister,2021-01-05 The most important book at the borderland of psychology and politics that I have ever read Martin E P Seligman Zellerbach Family Professor of Psychology at that University of Pennsylvania and author of Learned Optimism Why are we devastated by a word of criticism even when it s mixed with lavish praise Because our brains are wired to focus on the bad This negativity effect explains things great and small why countries blunder into disastrous wars why couples divorce why people flub job interviews how schools fail students why football coaches stupidly punt on fourth down All day long the power of bad governs people s moods drives marketing campaigns and dominates news and politics Eminent social scientist Roy F Baumeister stumbled unexpectedly upon this fundamental aspect of human nature To find out why financial losses mattered more to people than financial gains Baumeister looked for situations in which good events made a bigger impact than bad ones But his team couldn t find any Their research showed that bad is relentlessly stronger than good and their paper has become one of the most cited in the scientific literature Our brain s negativity bias makes evolutionary sense because it kept our ancestors alert to fatal dangers but it distorts our perspective in today s media environment The steady barrage of bad news and crisismongering makes us feel helpless and leaves us needlessly fearful and angry We ignore our many blessings preferring to heed and vote for the voices telling us the world is going to hell But once we recognize our negativity bias the rational brain can overcome the power of bad when it s harmful and employ that power when it s beneficial In fact bad breaks and bad feelings create the most powerful incentives to become smarter and stronger Properly understood bad can be put to perfectly good use As noted science journalist John Tierney and Baumeister show in this wide ranging book we can adopt proven strategies to avoid the pitfalls that doom relationships careers businesses and nations Instead of despairing at what s wrong in your life and in the world you can see how much is going right and how to make it still better *Research in Education* ,1974 *Mathematics Teaching in the Middle School* ,2004 **Estimation and Mental Computation** ,1986

Handbook of Educational Psychology David C. Berliner,Robert C. Calfee,2004 Sponsored by Division 15 of APA the second edition of this groundbreaking book has been expanded to 41 chapters that provide unparalleled coverage of this far ranging field Internationally recognized scholars contribute up to date reviews and critical syntheses of the following areas foundations and the future of educational psychology learners development individual differences cognition motivation content area teaching socio cultural perspectives on teaching and learning teachers and teaching instructional design teacher assessment and modern perspectives on research methodologies data and data analysis New chapters cover topics such as adult development self regulation changes in knowledge and beliefs and writing Expanded treatment has been given to cognition motivation and new methodologies for gathering and analyzing data The Handbook of Educational Psychology Second Editionprovides an indispensable reference volume for scholars teacher educators in service practitioners policy

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Proceedings of the Minnesota Academy of Science Minnesota Academy of Science (1932-). Meeting,1943

Estimation and Mental Computation Harold L. Schoen,1986 School Science and Mathematics ,1902 *The Industrial Arts Index* ,1927 **Hispanic Journal of Behavioral Sciences** ,1990 **Insights in Educational Psychology**

2021 Douglas F. Kauffman,Claudio Longobardi,Jesus de la Fuente,2023-09-12 This Research Topic is part of the Insights in Psychology series We are now entering the third decade of the 21st Century and especially in the last years the achievements made by scientists have been exceptional leading to major advancements in the fast growing field of Psychology Frontiers has organized a series of Research Topics to highlight the latest advancements in science in order to be at the forefront of science in different fields of research This editorial initiative of particular relevance led by Douglas Kauffman Specialty Chief Editor of the section Educational Psychology is focused on new insights novel developments current challenges latest discoveries recent advances and future perspectives in this field Also high quality original research manuscripts on novel concepts problems and approaches are welcomed **Reading for Evidence and Interpreting Visualizations in**

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Parliamentary Papers Queensland. Parliament. Legislative Assembly,1948 **Second Handbook of Research on Mathematics Teaching and Learning** Frank K. Lester,2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of

the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflects the mathematics education research community s willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community **Minutes** ,1920 *Yearbook* National Council of Teachers of Mathematics,1972 Bulletin ,1922 School ,1923

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Table of Contents Maths Paper March Grade 124

1. Understanding the eBook Maths Paper March Grade 124
 - The Rise of Digital Reading Maths Paper March Grade 124
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper March Grade 124
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Paper March Grade 124
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper March Grade 124
 - Personalized Recommendations
 - Maths Paper March Grade 124 User Reviews and Ratings
 - Maths Paper March Grade 124 and Bestseller Lists
5. Accessing Maths Paper March Grade 124 Free and Paid eBooks

- Maths Paper March Grade 124 Public Domain eBooks
- Maths Paper March Grade 124 eBook Subscription Services
- Maths Paper March Grade 124 Budget-Friendly Options
- 6. Navigating Maths Paper March Grade 124 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper March Grade 124 Compatibility with Devices
 - Maths Paper March Grade 124 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper March Grade 124
 - Highlighting and Note-Taking Maths Paper March Grade 124
 - Interactive Elements Maths Paper March Grade 124
- 8. Staying Engaged with Maths Paper March Grade 124
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper March Grade 124
- 9. Balancing eBooks and Physical Books Maths Paper March Grade 124
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper March Grade 124
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper March Grade 124
 - Setting Reading Goals Maths Paper March Grade 124
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper March Grade 124
 - Fact-Checking eBook Content of Maths Paper March Grade 124
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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