



Exercise-1

1. Marked questions are recommended for Revision.

2. चिह्नित प्रश्न दोहराने योग्य प्रश्न है।

SUBJECTIVE QUESTIONS

विषयात्मक प्रश्न (SUBJECTIVE QUESTIONS)

Section (A) : Representation of sets, Types of sets, subset and power set

खण्ड (A) : समुच्चयों का निरूपण, समुच्चयों के प्रकार, उपसमुच्चय तथा घात समुच्चय

A-1. Which of the following collections is not a set ?

- (i) The collection of natural numbers between 2 and 20
(ii) The collection of numbers which satisfy the equation $x^2 - 5x + 6 = 0$
(iii) The collection of prime numbers between 1 and 100.
(iv) The collection of all intelligent women in Jalandhar.

निम्न में से कौनसा संग्रह समुच्चय नहीं है?

- (i) 2 और 20 के मध्य प्राकृत संख्याओं का संग्रह (ii) समीकरण $x^2 - 5x + 6 = 0$ को संतुष्ट करने वाली संख्याओं का संग्रह
(iii) 1 और 100 के मध्य अभाज्य संख्याओं का संग्रह (iv) जालंधर में सभी सुन्दर महिलाओं का संग्रह

Ans.

Sol.

Collection of all beautiful women in Jalandhar is not a set as it is not a well defined collection. It is not possible to decide logically which woman is to be included in the collection and which is not to be included.

जालंधर में सभी सुन्दर महिलाओं का संग्रह समुच्चय नहीं क्योंकि यह सुपरिभाषित संग्रह नहीं है। यह तार्किक रूप से निश्चित करना संभव नहीं है कि महिलाएँ संग्रह में शामिल हैं या नहीं हैं।

A-2.

Write the set $A = \{x : x \text{ is a positive prime} < 10\}$ in the tabular form

समुच्चय $A = \{x : x \text{ एक धनात्मक अभाज्य संख्या} < 10\}$ का सारणी रूप है —

Ans.

Sol.

$\{2, 3, 5, 7\}$

2, 3, 5 and 7 are the only positive primes less than 10.

2, 3, 5 और 7, केवल धनात्मक अभाज्य संख्याएँ 10 से छोटी हैं।

A-3.

Which of the following is the empty / non-empty set

- (i) $\{x : x \text{ is a real number and } x^2 - 1 = 0\}$ (ii) $\{x : x \text{ is a real number and } x^2 + 1 = 0\}$
(iii) $\{x : x \text{ is a real number and } x^2 - 9 = 0\}$ (iv) $\{x : x \text{ is a real number and } x^2 = x + 2\}$

निम्न में से कौनसा रिक्त समुच्चय है—

- (i) $\{x : x \text{ एक वास्तविक संख्या है तथा } x^2 - 1 = 0\}$ (ii) $\{x : x \text{ एक वास्तविक संख्या है तथा } x^2 + 1 = 0\}$
(iii) $\{x : x \text{ एक वास्तविक संख्या है तथा } x^2 - 9 = 0\}$ (iv) $\{x : x \text{ एक वास्तविक संख्या है तथा } x^2 = x + 2\}$

Ans.

(i) non-empty अरिक्त

(ii) empty रिक्त

(iii) non-empty अरिक्त

(iv) non-empty अरिक्त

Sol.

(i) $x^2 - 1 = 0$ $x = \pm 1$

(ii) $x^2 + 1 = 0$ $x = \pm i$ $x \notin \mathbb{R}$

(iii) $x^2 - 9 = 0$ $x = \pm 3$

(iv) $x^2 - x - 2 = 0$, $x = 2, -1$

A-4.

Which of the following sets is an finite / infinite set ?

निम्न में से कौनसा समुच्चय परिमित/अपरिमित समुच्चय है ?

- (i) Set of divisors of 24 (24 के भाजकों का समुच्चय)
(ii) Set of all real number which lie between 1 and 2 (1 से 2 के मध्य सभी वास्तविक संख्याओं का समुच्चय)
(iii) Set of all human beings living in India. (भारत में रहने वाले सभी मनुष्यों का समुच्चय)
(iv) Set of all three digit natural numbers. (तीन अंकों की सभी प्राकृत संख्याओं का समुच्चय)

Ans.

(i) Finite परिमित

(ii) Infinite अपरिमित

(iii) Finite परिमित

(iv) Finite परिमित

Sol.

Between any two real numbers there lie infinitely many real numbers.

दो वास्तविक संख्याओं के मध्य अनन्त वास्तविक संख्याएँ होती हैं।



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Mathematics for Humanists: Revealing the Math Around Us Pasquale De Marco, 2025-05-16 Mathematics is all around us yet many people feel intimidated by it This book is for those people We will explore the many ways that mathematics is used in our everyday lives from the patterns in nature to the algorithms that power our computers We will also learn about the history of mathematics from the ancient Greeks to the modern day and meet some of the brilliant minds who have helped to shape this fascinating field But this book is not just about the history and applications of mathematics It is also about the beauty and elegance of the subject We will explore the mathematical principles that underlie our world from the golden ratio to the concept of infinity We will also learn about the many ways that mathematics can be used to create art music and other forms of beauty This book is for anyone who wants to learn more about mathematics regardless of their background or skill level We will start with the basics and gradually build up to more complex concepts By the end of the book you will have a new appreciation for the beauty and power of mathematics Whether you are a math lover or a math hater this book is for you We will show you that mathematics is not just a dry and abstract subject but a vibrant and dynamic field that is essential for understanding the world around us With clear explanations engaging stories and beautiful illustrations this book will make mathematics accessible to everyone So open your mind and prepare to be amazed by the world of mathematics If you like this book write a review on google books [Connected Mathematics \(Cmp\) Data Around Us Student Edition](#) Prentice Hall Directories Staff, 2003-03 Contains a complete seventh grade mathematics curriculum with connections to other subject areas **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1977 **Official Gazette** Philippines, 1975 [It's a Numberful World](#) Eddie Woo, 2019-09-03 2021 Mathical Honor Book Why aren't left handers extinct What makes a rainbow round How is a pancreas like a pendulum Publisher's note It's a Numberful World was published in Australia under the title Woo's Wonderful World of Maths These may not look like math questions but they are because they all have to do with patterns And mathematics at heart is the study of patterns That realization changed Eddie Woo's life by turning the dry subject he dreaded in high school into a boundless quest for discovery Now an award winning math teacher Woo sees patterns everywhere in the branches of blood vessels and lightning in the growth of a savings account and a sunflower even in his morning cup of tea Here are twenty six bite size chapters on the hidden mathematical marvels that encrypt our email enchant our senses and even keep us alive from the sine waves we hear as music to the mysterious golden ratio This book will change your mind about what math can be We are all born mathematicians and It's a Numberful World [The Mathematical Field](#) Vincent J Hyde, 2024-07-01 The arithmetic algebraic and geometric applications can be seen by human beings in 1 The Fields of the galaxies stars planets and moons in Heaven 2 The Fields of Knowledge in the numerous cities of the Earth This book includes 1 How numbers letters words books pictures and even product prices can be represented and even transmitted to anywhere in the world using waves binary arithmetic

programming and machines 2 How algebraic equations are used to see the relationship between different entities Algebraic quantities can be plotted using Cartesian Co ordinates to establish a graphical relationship between different quantities Also we can see how Boolean Algebra Electronic Gates and Programming can be used to develop circuits which produce very logical results 3 How geometry and the equations for the conical sections can be used to describe the orbits of the planets and moons This also allows us to calculate the orbits of satellites and the velocity required to keep satellites and machines in orbit around stars planets and moons By being able to calculate escape velocities from stars planets and moons we have been provided with a means to escape from the Earth and even the star and galaxy 4 How scalar quantities such as temperature and pressure can form different rules for different planets but they are merely numbers Whereas vector quantities such as Gravitational Fields Electric Fields and Magnetic Fields also have rules for the orbiting planets and moons electric positive and negative charges and iron magnets respectively It is amazing how the Electric and Magnetic Fields are linked together to produce such useful machines like motors generators transformers contactors solenoids and many other interesting devices to allow human beings to design and construct Switchgear and Controlgear Assemblies which allow for the automatic control and protection of machines It is also amazing how waves can be used to carry alternating current and power to cities all over the world while radio waves can also be used to carry data and information at speeds of gigabits per second Even the Electromagnetic Spectrum and visible light are made up of particles moving in waves Our eyes are sensors that can detect visible light waves and our brains receive sensations of colour Our ears are sensors that can detect sound waves and our brains can interpret the sensations as speech Using mathematics and machines we can convert visual and sound data into binary numbers which can be sent on carrier waves anywhere on the Earth and displayed on machines Mathematics and in particular the formula $E=mc^2$ shows us that mass and energy are interlinked and energy is more like a wave while mass is more like a particle We have to thank the Creator for giving us the consciousness to understand the Mathematical Field and the machines that help us lead more constructive lives in the Fields of Knowledge all around us

Mathematics & Science in the Real World, 2000 **Woo's Wonderful World of Maths** Eddie Woo, 2018-09-25

Have you ever wondered why a rainbow is curved Or why left handers aren't extinct How a sunflower is like a synchronised swimmer or a lightning bolt is like a blood vessel The answer to all these questions and more can be summed up in one simple word MATHS As the inimitable Eddie Woo explains maths is not just about numbers Maths is about patterns and our universe is extraordinarily patterned With enthusiasm and wonder Eddie is here to help us discover these patterns With engaging clarity and entertaining anecdotes Eddie demonstrates the intricacy of maths in all the things we love from music in our iPods to our credit cards Filled with humour and heart this book will fascinate entertain and illuminate the maths that surrounds us This is a specially formatted fixed layout ebook that retains the look and feel of the print book **LONGLISTED FOR THE ABIA GENERAL NON FICTION BOOK OF THE YEAR 2019 PRAISE FOR EDDIE WOO** I never thought I'd read a maths book cover

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It is the universal language that allows us to work with numbers patterns processes and the rules that govern the entire universe Math enables us to understand our surroundings and model and predict phenomena This insightful and comprehensive volume answers a series of compelling mathematical and life related questions in an entertaining and informative way showing inquisitive readers how math is the basis for just about everything they experience in their daily lives **Mathematics in Nature** John Adam,2011-10-02 From rainbows river meanders and shadows to spider webs honeycombs and the markings on animal coats the visible world is full of patterns that can be described mathematically Examining such readily observable phenomena this book introduces readers to the beauty of nature as revealed by mathematics and the beauty of mathematics as revealed in nature Generously illustrated written in an informal style and replete with examples from everyday life Mathematics in Nature is an excellent and undaunting introduction to the ideas and methods of mathematical modeling It illustrates how mathematics can be used to formulate and solve puzzles observed in nature and to interpret the solutions In the process it teaches such topics as the art of estimation and the effects of scale particularly what happens as things get bigger Readers will develop an understanding of the symbiosis that exists between basic scientific principles and their mathematical expressions as well as a deeper appreciation for such natural phenomena as cloud formations halos and glories tree heights and leaf patterns butterfly and moth wings and even puddles and mud cracks Developed out of a university course this book makes an ideal supplemental text for courses in applied mathematics and mathematical modeling It will also appeal to mathematics educators and enthusiasts at all levels and is designed so that it can be dipped into at leisure *Reading and Writing the World with Mathematics* Eric Gutstein,2012-09-10 Mathematics education in the United States can reproduce social inequalities whether schools use either basic skills curricula to prepare mainly low income students of color for low skilled service jobs or standards based curricula to ready students for knowledge intensive positions And working for fundamental social change and rectifying injustice are rarely included in any mathematics curriculum Reading and Writing the World with Mathematics argues that mathematics education should prepare students to investigate and critique injustice and to challenge in words and actions oppressive structures and acts Based on teacher research the book provides a theoretical framework and practical examples for how mathematics educators can connect schooling to a larger sociopolitical context and concretely teach mathematics for social justice **Science and Math: Made Engaging** Pasquale De Marco,2025-07-14 Science and Math Made Engaging is an exploration of the fascinating world of science and mathematics inviting readers to discover the beauty and elegance that lie at the heart of our

universe This comprehensive guide delves into the fundamental principles that govern our world from the smallest atoms to the vast expanse of the cosmos With engaging and accessible language Science and Math Made Engaging makes complex concepts easy to understand inspiring readers of all ages to explore the wonders of science and mathematics This book is not just a collection of facts and figures it is a journey of discovery a voyage into the unknown where readers will uncover the secrets of the universe and gain a deeper appreciation for the world around them Inside this book readers will find A comprehensive overview of the major branches of science including physics chemistry biology earth science and astronomy Clear and concise explanations of key scientific concepts theories and discoveries Engaging and informative illustrations diagrams and photographs that bring scientific concepts to life Real world examples that show how science and mathematics are used in everyday life Thought provoking questions and activities that encourage readers to explore scientific concepts in greater depth Science and Math Made Engaging is the perfect resource for students teachers parents and anyone who wants to learn more about the fascinating world of science and mathematics It is a book that will ignite a passion for discovery and inspire readers to see the world in a whole new light If you like this book write a review

What Are the Arts and Sciences? Dan Rockmore, 2017-06-06 What constitutes the study of philosophy or physics What exactly does an anthropologist do or a geologist or historian In short what are the arts and sciences While many of us have been to college and many aspire to go we may still wonder just what the various disciplines represent and how they interact What are their origins methods applications and unique challenges What kind of people elect to go into each of these fields and what are the big issues that motivate them Curious to explore these questions himself Dartmouth College professor and mathematician Dan Rockmore asked his colleagues to explain their fields and what it is that they do The result is an accessible entertaining and enlightening survey of the ideas and subjects that contribute to a liberal education The book offers a doorway to the arts and sciences for anyone intrigued by the vast world of ideas

Enrichment Units in Math Dianne Draz, 2021-09-09 Go beyond the regular curriculum with these units to challenge your more able intermediate grade math students With their ease of use clear instruction and motivating topics these are the perfect enrichment activities for the regular math curriculum This book contains four units that are structured so that students can easily develop an understanding of the topics on their own The four topics are probability topology magic squares and number characteristics Each unit provides sequential activities that allow students to work through these motivating topics whether they are working by themselves in a small group or in a whole class setting The units lend themselves easily to a math center arrangement with each student having an individual folder and checklist to record his or her progress While they were designed to provide added challenge for students who have mastered the regular curriculum some of the units can be used as supplements for whole class instruction The emphasis in these units is on promoting thinking developing perseverance expanding students view of mathematics enjoying a challenge and keeping math students actively involved and enthused about math This book will help

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Under the Spell of Mathematics Rik Verhulst, 2024-10-03 This book which is aimed at general readers interested in maths as well as professional mathematicians addresses numerous aspects of this spell binding science In particular the book shows how mathematics is structured and how it works Practical examples are discussed as well as the general role of maths in culture and art in nature and in everyday life The topics covered range from forms of logical argumentation to numerical analysis from simple applications in ancient civilisations to sophisticated tools in modern cultures from natural shapes to artistic creations Furthermore it provides a comprehensible and comprehensive insight into the fascinating panorama of mathematics emphasizing its importance in human history It assumes only that readers have a grasp of the basic concepts of school maths allowing them access to the exciting world of mathematics and to fall under its spell Numerous examples and illustrations clarify the text Rik Verhulst is Prof emeritus in maths at the Karel de Grote University of Applied Sciences in Antwerp He is the coordinator and co author of several series of maths textbooks for secondary schools He is well known in professional circles for his numerous lectures at congresses and colloquia and for his contributions to various journals As a collaborator and lecturer at the Belgian Centre for Methodology of Mathematics the Vliebergh Sencie courses the Centre for Didactics of Mathematics at the Catholic University of Leuven and the Flemish Mathematical Olympiad he has long been involved in the training of teachers and the preparation of pupils for the International Mathematical Olympiad

Understanding the JHSAT Proficiency Exams Pasquale De Marco, 2025-07-25 This comprehensive guide to the JHSAT Proficiency Exams provides everything you need to know about the exams from what they are to how to prepare for them Whether you re a student who s about to take the exams or a parent who wants to help your child succeed this book has everything you need The JHSAT Proficiency Exams are a set of standardized tests that are required for graduation from high school in New Jersey The exams are designed to assess students skills in reading writing mathematics science and social studies The exams are offered twice a year in January and June Preparing for the JHSAT Proficiency Exams can be a daunting task but it s important to remember that you re not alone There are many resources available to help you prepare for the exams including study guides practice tests and online courses The best way to prepare for the exams is to start studying early and to practice regularly On the day of the exam it s important to arrive early and to be well rested You should also bring a pencil a calculator and a snack The exams are timed so it s important to pace yourself and to answer the questions carefully After you ve taken the exams you ll receive your scores in the mail If you re not satisfied with your scores you can

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Math Memories You Can Count on Jo-Anne Lake,2009 Organized around the five math strands number sense and numeration measurement geometry and spatial sense patterning and algebra and data management and probability Includes activity ideas rooted in children s literature and encourages links with relevant manipulatives Included also are book lists reproducible activities and assessment strategies

Numeracy: Mastering the Art of Mathematics in Everyday Life Pasquale De Marco,2025-07-14 In an era defined by information overload and rapid technological advancements numeracy has become an essential life skill empowering individuals to navigate the complexities of the modern world with confidence and discernment This comprehensive guide delves into the profound significance of numeracy unveiling its multifaceted applications and transformative impact on individuals and societies Journey through the captivating world of numbers and discover how numeracy enhances our understanding of the world around us From the mundane tasks of everyday life to the intricate challenges faced by professionals across diverse fields numeracy plays a pivotal role Whether it s managing personal finances making informed healthcare choices or comprehending scientific data this book equips readers with the skills and knowledge to navigate these complexities with ease Dispelling the myth of math phobia this book offers practical strategies to overcome anxiety and cultivate a love for numbers By embracing numeracy readers unlock their full potential expanding their horizons and enhancing their ability to thrive in an increasingly data driven world Explore the diverse applications of numeracy across various disciplines from science and technology to the arts and humanities Uncover the historical roots of mathematics tracing its evolution from ancient civilizations to the present day Through engaging anecdotes and real world examples this book illuminates the profound impact of numeracy on our lives empowering readers to make informed decisions solve problems creatively and navigate the complexities of the modern world with confidence Embrace the transformative power of numeracy and embark on a journey of discovery unlocking the secrets of the mathematical universe Let numbers be your guide as you navigate the complexities of life making informed choices solving problems effectively and appreciating the beauty and elegance of the world around you With its accessible writing style comprehensive coverage and practical insights this book is an invaluable resource for anyone seeking to enhance their numeracy skills and unlock the full potential of their mathematical abilities If you like this book write a review

A Mathematical Puzzle: The Enigma of the Mathematical Genius Pasquale De Marco,2025-03-22 Srinivasa Ramanujan was a self taught Indian

mathematician who despite facing immense adversity made groundbreaking contributions to the field of mathematics His work is characterized by its originality depth and elegance and he possessed an uncanny ability to see patterns and connections where others saw only chaos This book delves into the life of this enigmatic genius exploring the factors that shaped his unique mind and the motivations that drove his relentless pursuit of mathematical knowledge Through a combination of historical research and personal anecdotes this book paints a vivid portrait of Ramanujan the man behind the legend In addition to providing a comprehensive overview of Ramanujan s life and work this book also explores the nature of genius and the creative process It examines the role of intuition and inspiration in mathematical discovery and it investigates the relationship between mathematics and other fields of human endeavor such as art and music This book is not just a biography of Ramanujan it is also an exploration of the human mind and the limits of human understanding It is a book that will inspire and fascinate anyone with an interest in mathematics history or human potential Ramanujan s story is a reminder that genius can emerge from anywhere and that with perseverance and dedication it is possible to achieve great things no matter the obstacles one faces His work continues to be studied and admired by mathematicians around the world and his legacy is sure to inspire generations to come This book is a must read for anyone who wants to learn more about one of the most fascinating and brilliant minds in history It is a story of triumph over adversity of a man who overcame poverty prejudice and ill health to become one of the greatest mathematicians of all time If you like this book write a review **A**

Guided Tour of Mathematical Methods Roel Snieder, 2004-09-23 Mathematical methods are essential tools for all physical scientists This second edition provides a comprehensive tour of the mathematical knowledge and techniques that are needed by students in this area In contrast to more traditional textbooks all the material is presented in the form of problems Within these problems the basic mathematical theory and its physical applications are well integrated The mathematical insights that the student acquires are therefore driven by their physical insight Topics that are covered include vector calculus linear algebra Fourier analysis scale analysis complex integration Green s functions normal modes tensor calculus and perturbation theory The second edition contains new chapters on dimensional analysis variational calculus and the asymptotic evaluation of integrals This book can be used by undergraduates and lower level graduate students in the physical sciences It can serve as a stand alone text or as a source of problems and examples to complement other textbooks

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