



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 Around Us

Eddie Woo

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Mathematids Around Us:

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

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

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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

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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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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 you provide students with opportunities to explore mathematical ideas in ways that promote their intellectual growth and expand their views of mathematics This is one of a three book series For younger students see *Enrichment Units in Math Book 1* attribute pattern blocks tangrams sets and Venn diagrams and ancient Egyptian numbers and *Enrichment Units in Math Book 2* permutations and combinations tessellations line drawings and graphing For other math units to extend the math curriculum and provide opportunities to work independently see *Math Extension Units Book 1* and *Book 2* Grades 5 7

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 retake the exams The JHSAT Proficiency Exams are an important step on the path to graduation from high school With the right preparation you can succeed on the exams and move on to the next phase of your life In addition to providing information about the JHSAT Proficiency Exams this book also includes practice questions and answers These questions are designed to help you assess your skills and to identify areas where you need to improve The practice questions are also a great way to get familiar with the format of the exams We hope that this book will help you to succeed on the JHSAT Proficiency Exams With hard work and dedication you can achieve your goals If you like this book write a review

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

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

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The Mathematical Circus: A Journey Through the Enchanting World of Numbers Pasquale De Marco,2025-08-16 Embark on a captivating journey through the enchanting world of mathematics with The Mathematical Circus A Journey Through the Enchanting World of Numbers This book is an invitation to discover the beauty power and profound impact of mathematics on our lives With

engaging stories thought provoking puzzles and illuminating examples The Mathematical Circus unravels the mysteries of numbers revealing their hidden wonders and showcasing their practical applications in our everyday lives From the magic of numbers and the elegance of geometry to the power of algebra and the thrill of calculus this book takes you on an adventure through the fundamental concepts of mathematics leaving you in awe of the mathematical marvels that surround us Delve into the enigmatic world of statistics where you ll uncover the art of collecting organizing and analyzing data and explore the fascinating realm of topology where shapes and their transformations reveal the hidden structures of our universe Discover the intricate patterns of fractals self similar objects that exhibit infinite complexity and immerse yourself in the boundless possibilities of logic the foundation of reasoning and the key to unlocking the secrets of the universe The Mathematical Circus is more than just a book about mathematics it is an exploration of the human mind s ability to understand and create patterns to find beauty in complexity and to use mathematics as a tool to make sense of the world around us Whether you are a seasoned mathematician or simply someone with a curious mind this book promises to ignite your imagination and leave you with a newfound appreciation for the power and beauty of mathematics So step right up and join the circus Let the mesmerizing world of numbers captivate your mind and open your eyes to the boundless possibilities that mathematics holds The Mathematical Circus awaits you ready to take you on a journey of wonder discovery and mathematical amazement If you like this book write a review

Meaningful Small Groups in Math, Grades K-5 Kimberly Rimbey, 2022-09-02 Target the Math Support the Students Provide Access for All The need for focused small group math instruction has never been greater Today s education landscape is fraught with learning divides unlike anything we ve faced in recent years We need new ways of teaching students who have remarkably varying levels of understanding and vastly different needs Meaningful Small Groups in Math Grades K 5 offers practical guidance on how to meet the diverse needs of today s students Written for K 5 classroom teachers math interventionists and instructional coaches this user friendly accessible book provides guidance on the necessary components of small group instruction in math trajectories for small group instruction on specific concepts and practical steps for getting started Readers will find Checklists and templates for implementing small group sample lessons in the major content domains Emphasis on flexible groups Intervention and extension ideas for differentiating learning A chapter devoted to developing small group programs across a school or organization Small group instruction in mathematics has not been as well developed as its counterpart in the reading world In K 5 math classrooms small group instruction has typically been reduced to learning centers and rotation stations with little emphasis on differentiated small group teacher facilitated learning To meet the needs of today s students a more focused approach is needed

Mathematids Around Us Book Review: Unveiling the Power of Words

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