

The Teaching Of Vedic Mathematics By Dr S K Kapoor

The Teaching Of Vedic Mathematics By Dr S K Kapoor The teaching of Vedic Mathematics by Dr. S. K. Kapoor Vedic Mathematics, a system of rapid mental calculation methods derived from ancient Indian scriptures, has gained worldwide recognition for its simplicity and efficiency. Among the prominent educators who have contributed significantly to popularizing and teaching this system is Dr. S. K. Kapoor. His dedicated efforts have made Vedic Mathematics accessible to students, educators, and math enthusiasts across different age groups. This article delves into the teachings of Dr. S. K. Kapoor on Vedic Mathematics, exploring his methodology, key concepts, benefits, and how his work continues to influence mathematical education today.

Introduction to Dr. S. K. Kapoor and His Contribution Who is Dr. S. K. Kapoor? Dr. S. K. Kapoor is a renowned mathematician, educator, and author. With a passion for simplifying complex mathematical concepts, he has dedicated much of his career to the dissemination of Vedic Mathematics. His approach emphasizes mental agility, speed, and accuracy, making mathematics less intimidating and more engaging for learners.

His Role in Promoting Vedic Mathematics Dr. Kapoor has authored several books and conducted numerous workshops and seminars worldwide. His teaching methodology integrates traditional Vedic techniques with modern educational practices, ensuring that learners grasp the concepts effectively and apply them confidently.

Foundations of Vedic Mathematics According to Dr. S. K. Kapoor Core Principles Dr. Kapoor emphasizes that Vedic Mathematics is based on 16 sutras (aphorisms) and 13 sub-sutras, which serve as guiding principles for mental calculations. These sutras help simplify arithmetic operations like addition, subtraction, multiplication, division, squares, cubes, and algebra.

Philosophy Behind the Teaching His philosophy revolves around fostering a mindset that perceives mathematics as an enjoyable and intuitive subject. By nurturing mental calculation skills, students can reduce dependence on calculators or written methods, enhancing their confidence and problem-solving abilities.

Teaching Methodology of Dr. S. K. Kapoor Step-by-Step Approach Dr. Kapoor advocates a structured learning process that begins with understanding basic sutras and gradually moves to complex problems. His methodology includes:

- 1. Introduction to fundamental sutras with clear explanations.
- 2. Hands-on practice with simple problems to build confidence.
- 3. Progression to advanced problems, integrating multiple sutras.
- 4. Regular assessment and revision to reinforce learning.
- 5. Use of Simplified Techniques He introduces techniques that often involve visualization and mental calculation, such as: Vertical and Crosswise Method for multiplication. All from 9 and the last from 10 for subtraction. Complementary numbers for division. Special techniques for squares and cubes. Interactive and Engaging Learning Dr. Kapoor emphasizes interactive teaching, encouraging students to discover and develop their own mental shortcuts, thus fostering creativity and independence in problem-solving.

Key Concepts and Techniques in Vedic Mathematics by Dr. S. K. Kapoor Multiplication Techniques One of the hallmark contributions of Dr. Kapoor is his detailed explanation of Vedic multiplication methods, including:

- 1. Vertical and Crosswise Method: A versatile technique for multiplying numbers of any size quickly.
- 2. Doubling and Halving: Simplifies calculations involving even numbers.
- 3. Factors and Divisibility: Recognizing patterns for faster factorization and division.
- 4. Division and Fractions He demonstrates how Vedic sutras can be used to perform long division mentally, including techniques for: Estimating remainders quickly. Converting fractions to decimals effortlessly. Using complementary numbers for division. Squares and Cubes Dr. Kapoor's teachings include methods for calculating squares and cubes rapidly: Using the difference of squares for quick calculations.
- 5. Special formulas for numbers ending with 5.
- 6. Pattern recognition for cubes of numbers ending with 1, 2, 3, etc.
- 7. Algebra and Equations He extends the application of Vedic techniques to algebra, enabling quick solutions of linear and quadratic equations through mental calculations and pattern recognition.

Benefits of Learning Vedic Mathematics from Dr. S. K. Kapoor Enhanced Mental Calculation Skills Students develop the ability to perform complex calculations mentally, reducing reliance on calculators and improving overall numerical agility.

Time-Saving Techniques The methods taught by Dr. Kapoor significantly cut down calculation time, which is especially beneficial during exams and competitive tests.

Boosted Confidence and Interest in Mathematics Easy-to-understand techniques make mathematics more enjoyable, increasing student engagement and confidence.

Improved Problem-Solving Abilities Quick mental calculations foster critical thinking and analytical skills, which are valuable beyond

mathematics. 4 Applicability Across Fields Vedic Mathematics techniques are useful in various fields such as finance, engineering, and data analysis, making them practical skills for real-world applications. Resources and Materials by Dr. S. K. Kapoor Books and Publications Dr. Kapoor has authored several influential books, including: “Vedic Mathematics: A Complete System of Calculation” “Mental Mathematics Made Easy” “Speed Mathematics for All” These books provide comprehensive explanations, practice problems, and step-by-step techniques suitable for learners of all levels. Workshops and Seminars He regularly conducts training programs, workshops, and seminars globally, aimed at teachers, students, and educators, emphasizing practical application and classroom integration. Online Resources In recent years, Dr. Kapoor’s teachings have been adapted into online courses and video tutorials, making Vedic Mathematics accessible to a broader audience. Legacy and Continuing Influence Impact on Education Dr. S. K. Kapoor’s teachings have influenced curricula in various schools and coaching centers, promoting mental mathematics as a core skill. Global Reach His work has transcended borders, inspiring math educators and learners worldwide to adopt Vedic techniques for faster calculations. Future Directions With ongoing technological advancements, integrating Dr. Kapoor’s methods into digital platforms and educational apps continues to be a promising development. 5 Conclusion The teaching of Vedic Mathematics by Dr. S. K. Kapoor represents a significant contribution to simplifying and popularizing an ancient Indian mathematical system. His structured approach, innovative techniques, and passion for making mathematics accessible have transformed how students perceive and perform calculations. By fostering mental agility, confidence, and enjoyment in mathematics, Dr. Kapoor’s teachings continue to empower learners globally, ensuring that the rich legacy of Vedic Mathematics remains relevant and vital in modern education. Whether for academic excellence, competitive exams, or personal development, embracing Dr. Kapoor’s methods can unlock new levels of mathematical mastery and cognitive skills. QuestionAnswer What is the main focus of Dr. S. K. Kapoor's teachings on Vedic Mathematics? Dr. S. K. Kapoor emphasizes simplifying complex mathematical calculations using ancient Vedic techniques to enhance mental agility and problem-solving skills. How does Dr. Kapoor’s approach to Vedic Mathematics benefit students today? His approach helps students improve calculation speed, accuracy, and confidence, making mathematics more accessible and engaging in the modern educational landscape. What are some key topics covered in Dr. Kapoor’s Vedic Mathematics teachings? His teachings include mental math tricks, sutras for multiplication and division, algebra, square roots, cube roots, and advanced problem-solving methods based on Vedic principles. Is Dr. Kapoor’s method of teaching Vedic Mathematics suitable for all age groups? Yes, his methods are designed to be simple and easy to understand, making them suitable for students of all ages, from school children to adult learners. What impact has Dr. S. K. Kapoor had on the promotion of Vedic Mathematics globally? He has played a significant role in popularizing Vedic Mathematics through books, workshops, and seminars worldwide, inspiring educators and learners to adopt these techniques. Are there any specific courses or materials developed by Dr. Kapoor for learning Vedic Mathematics? Yes, Dr. Kapoor has authored several books and conducted numerous training programs that detail the sutras and techniques of Vedic Mathematics for various levels. How does Dr. Kapoor’s teaching differentiate from other methods of teaching Vedic Mathematics? Dr. Kapoor’s teaching emphasizes practical application, mental calculation techniques, and integrating Vedic methods into everyday problem-solving, making the learning process more intuitive and effective. The Teaching of Vedic Mathematics by Dr. S.K. Kapoor Vedic Mathematics, an ancient system of calculation rooted in Indian tradition, has gained significant attention in The Teaching Of Vedic Mathematics By Dr S K Kapoor 6 contemporary educational circles, thanks in part to the pioneering efforts of educators like Dr. S.K. Kapoor. His systematic approach to teaching this methodology has not only revitalized interest in traditional Indian mathematics but also provided students with powerful tools to perform complex calculations rapidly and accurately. This article delves into Dr. Kapoor's contributions, the core principles of Vedic Mathematics, and the impact of his teaching methodology on learners across various age groups. Introduction to Vedic Mathematics and Dr. S.K. Kapoor’s Role Understanding Vedic Mathematics Vedic Mathematics is a collection of mental calculation techniques derived from ancient Indian texts called the Vedas, particularly the Atharva Veda. Unlike conventional arithmetic, which often relies heavily on rote memorization and lengthy procedures, Vedic Mathematics emphasizes mental agility, pattern recognition, and simplified algorithms. It encompasses 16 sutras (aphorisms) and 13 sub-sutras, which serve as guiding principles for solving mathematical problems efficiently. The techniques are versatile, applicable to arithmetic, algebra, geometry, and even calculus, making them invaluable tools for students, educators, and professionals alike. The primary appeal of Vedic Mathematics lies in its ability to reduce complex calculations to simple mental exercises, thereby fostering greater confidence and interest in mathematics. Dr. S.K. Kapoor: A Pioneer and Advocate Dr. S.K. Kapoor, a distinguished mathematician and educator, recognized the transformative potential of Vedic Mathematics in modern education. His dedicated efforts to adapt, teach, and popularize these

ancient techniques have played a crucial role in bridging the gap between traditional Indian mathematics and contemporary pedagogical needs. Through his books, seminars, and training programs, Dr. Kapoor has made Vedic Mathematics accessible and appealing to students, teachers, and educational administrators. His methodology emphasizes clarity, simplicity, and practical application, ensuring that learners can incorporate these techniques seamlessly into their daily mathematical exercises.

Philosophy and Objectives of Dr. Kapoor's Teaching Approach

Core Philosophy Dr. Kapoor's teaching philosophy revolves around the belief that mathematics should be an engaging, empowering, and accessible subject. He advocates for methods that foster mental calculation skills, improve problem-solving abilities, and cultivate an intuitive understanding of mathematical concepts. He emphasizes that Vedic Mathematics is not just a set of shortcuts but a comprehensive mental framework that enhances logical thinking and numerical agility. His approach aims to eliminate fear of mathematics, particularly among students who struggle with conventional methods.

Objectives of His Methodology

- **Enhance Calculation Speed:** Equip students with techniques to perform calculations swiftly, even under exam conditions.
- **Simplify Complex Problems:** Break down complicated problems into manageable steps using Vedic sutras.
- **Develop Mental Agility:** Foster the ability to perform mental calculations without reliance on calculators or tables.
- **Build Confidence:** Encourage students to approach mathematics with confidence and enthusiasm.
- **Integrate with Modern Education:** Complement traditional curricula with Vedic techniques to enrich learning experiences.

Key Techniques and Teaching Modules

Foundational Sutras and Their Applications

Dr. Kapoor's curriculum introduces learners to the core sutras of Vedic Mathematics, each of which offers specific problem-solving strategies:

1. **Vertically and Crosswise:** Simplifies multiplication and division, enabling rapid calculations involving large numbers.
2. **Nikhilam Sutra (All from 9 and the Last from 10):** Facilitates quick subtraction and multiplication, especially near base numbers like 10, 100, 1000.
3. **Paravartya Sutra (Transpose and Change):** Aids in division and algebraic manipulations.
4. **Urdhva Tiryak Sutra (Vertical and Crosswise):** A versatile method for multiplication of large numbers, algebra, and fractions.
5. **Ekadhikena Purvena (By One More than the Previous One):** Useful in algebraic factorization.

Each sutra is taught with numerous examples, exercises, and real-life applications, ensuring learners grasp both the logic and the practical utility.

Teaching Modules and Pedagogical Strategies

Dr. Kapoor structures his courses into progressive modules, starting with basic arithmetic and gradually advancing to complex algebra and geometry. His pedagogical strategies include:

- **Visualization and Pattern Recognition:** Encouraging students to identify patterns and relationships to simplify calculations.
- **Use of Mental Exercises:** Daily mental drills to strengthen calculation speed and accuracy.
- **Interactive Workshops:** Hands-on activities and problem-solving sessions to reinforce techniques.
- **Use of Visual Aids and Charts:** Diagrams illustrating sutra applications to enhance understanding.
- **Integration with Conventional Methods:** Teaching Vedic techniques alongside standard algorithms to provide a comprehensive mathematical toolkit.

His methods emphasize student participation, fostering an active learning environment that stimulates curiosity and self-confidence.

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Impact on Students and Education System

Transformative Outcomes for Learners

Students exposed to Dr. Kapoor's Vedic Mathematics program often report remarkable improvements in their calculation speed, problem-solving confidence, and overall attitude towards mathematics. Many have demonstrated the ability to perform complex calculations mentally within seconds, a feat that enhances exam performance and reduces anxiety. Furthermore, learners develop critical thinking skills, as Vedic techniques often involve recognizing patterns and applying logical steps. This mental agility translates into better performance across STEM subjects, fostering a holistic academic growth.

Broader Educational Implications

Dr. Kapoor's advocacy has influenced educational policies in various regions, encouraging schools to adopt Vedic Mathematics as part of their curriculum. The system's simplicity makes it particularly suitable for integration at primary and secondary levels, providing a foundation for advanced mathematical understanding. Moreover, the program promotes inclusive education by empowering students with diverse learning styles. For students with learning difficulties, Vedic techniques offer alternative pathways to grasp mathematical concepts, making mathematics more accessible and less intimidating.

Criticisms, Challenges, and Future Prospects

Criticisms and Limitations

While Vedic Mathematics has garnered widespread praise, it faces certain criticisms:

- **Lack of Formal Historical Evidence:** Some scholars question the authenticity of the claimed ancient origins, suggesting that the system was reconstructed or popularized in modern times.
- **Potential Over-reliance:** Critics argue that exclusive focus on Vedic techniques may neglect foundational concepts necessary for higher mathematics.
- **Limited Curriculum Integration:** Despite its benefits, integration into formal curricula remains inconsistent across regions.

Challenges in Dissemination and Adoption

- **Teacher Training:** Effective teaching requires trained educators familiar with Vedic methods, necessitating comprehensive training programs.
- **Curricular Constraints:** Standard curricula often prioritize conventional methods, making incorporation of Vedic Mathematics challenging.

By Dr S K Kapoor 9 challenging. - Perception and Acceptance: Overcoming skepticism and establishing credibility among educators and policymakers is an ongoing process. Future Outlook and Opportunities The future of Vedic Mathematics, as propagated by educators like Dr. Kapoor, is promising. Advances in educational technology, such as digital platforms and mobile applications, offer new avenues for dissemination. Online courses, webinars, and interactive tools can broaden reach and facilitate self-learning. Furthermore, research into cognitive benefits and neurological impacts of mental calculation techniques can strengthen the evidence base, encouraging wider acceptance. Integrating Vedic Mathematics into competitive exam preparations and talent development programs can also unlock its full potential. Conclusion Dr. S.K. Kapoor's dedication to teaching Vedic Mathematics has significantly contributed to revitalizing an ancient system and adapting it for modern educational needs. His comprehensive approach—combining theoretical understanding, practical application, and pedagogical innovation—has empowered countless students to approach mathematics with confidence and enthusiasm. While challenges remain in widespread adoption, the ongoing efforts of educators like Dr. Kapoor and the advent of digital learning tools suggest a bright future for Vedic Mathematics as a vital component of holistic mathematical education. Embracing these techniques can not only enhance calculation skills but also inspire a deeper appreciation for the beauty and elegance of mathematics rooted in Indian heritage. Vedic mathematics, Dr. S K Kapoor, ancient Indian mathematics, mental calculation, vedic sutras, mathematical techniques, calculation methods, educational resources, vedic math books, Indian mathematics curriculum

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vedic mathematics for students level 1 of 5 series is the first book on vedic mathematics introducing the ancient techniques and fundamental concepts present in mathematics this book has detailed illustrations of all the methods explained in detail this book helps students increase their ability and get into their comfort zone when solving problems vedic mathematics can inspire young minds to be creative and improve lateral thinking in ancient india mathematics was known by the general name ganitha which includes arithmetic geometry algebra astronomy and astrology in the field of mathematics ancient indians made three distinct contributions the notation system the decimal system and the use of zero the system discovered by swami bharathi krishna tirthaji is based on sixteen formulae or sutras and thirteen sub formulae upa sutras these sutras can be related to natural and mental functions such as completing a whole noticing analogies generalisation and so on it provides one line mental and super fast methods along with quick cross checking systems it offers concepts methods tricks and shortcuts to workout

complex mathematical problems fast literally in few seconds without using calculators and computers salient features of vedic mathematics □ removes fear of mathematics □ enables strong logical thinking problem solving skills □ enables faster calculations □ improves concentration □ encourages mental calculations □ encourages multidimensional thinking □ develops creativity

mastering a z of vedic mathematics is a comprehensive guide designed to transform the way students approach mathematical calculations drawing from my extensive experience as a maths faculty in the jee field this book encapsulates the essence of vedic mathematics to make learning fast efficient and enjoyable with over ten years of experience working with prominent national coaching brands i have honed techniques that simplify complex problems making them accessible to every student this book is not just a collection of methods but a tool to empower students preparing for competitive exams like iit jee cat ssc bank po and olympiads through clear explanations and practical examples mastering a z of vedic mathematics aims to boost confidence and enhance problem solving skills ensuring students can tackle their exams with ease and precision

we are delighted to announce the release of our new workbook vedic maths volume i this workbook has been meticulously crafted to provide a comprehensive and user friendly approach to learning vedic mathematics it includes detailed explanations of various sutras making it accessible to students of all levels our aim with this workbook is to foster an enjoyable learning experience for each and every student by presenting vedic maths sutras alongside illustrated examples we strive to enhance understanding and make the subject more engaging this workbook covers vedic ganit sutra for addition subtraction and multiplication offering a well rounded foundation in vedic mathematics it is particularly beneficial for school students preparing for scholarships olympiads nts and other competitive exams however even students with average mathematical abilities can find value in this workbook as it simplifies complex concepts and facilitates a better grasp of mathematics

this book vedic mathematics for students is a learning and knowledge tool for anyone who wants to acquire knowledge of vedic mathematics which is one of the easiest approaches to solving mathematics mathematics is one subject that is the same all across the globe and mathematical calculations are needed everywhere with the help of techniques of vedic mathematics it becomes much easier vedic mathematics is well recognised methodology by most indian scholars this book is a value addition to this particular ancient knowledge with small sachets of vedic mathematic s knowledge in the form of chunks of different methods and techniques this book is compiled in such a manner that whosoever reads it will definitely get benefited a must read book for anyone who wants to add more value and knowledge in mathematics in very less time with minimum efforts selected stories of honor□ de balzac by honor□ de balzac in this collection honor□ de balzac presents a selection of his acclaimed short stories showcasing his incredible talent for vivid storytelling and character development with its rich language and engaging narratives this book is a must read for fans of classical literature key aspects of the book selected stories of honor□ de balzac collection of short stories the book features a collection of acclaimed short stories by honor□ de balzac vivid storytelling and character development the stories showcase balzac s incredible talent for vivid storytelling and character development useful for literature enthusiasts the book is useful for fans of classical literature and those interested in the works of balzac honor□ de balzac was a french novelist and playwright who is regarded as one of the greatest writers of western literature his book selected stories of honor□ de balzac is highly regarded for its captivating storytelling and rich language

astronomical applications of vedic mathemetics is a self contained book which shows vedic mathematics applications in many areas of astronomy including prediction of eclipses the solution of kepler s equation an important equation in astronomy for finding planetary coordinates solution of spherical triangles prediction of planetary positions

based on sanskrit mathematical aphorisms found in the atharvaveda

if you hate mathematics if you have always struggled to solve your maths problems in time if you are scared of complex calculations if you are attempting competitive or board exams or if you

would just like to improve your maths skills this book is for you based on the sixteen sutras vedic maths is practically the only magical principle you need to tackle anything from simple arithmetic to algebra algorithms square roots cube roots trigonometry and many more mathematical concepts in this book you will find easy methodology that will help you solve complex questions and practice exercises that will test your understanding of these concepts so go ahead make maths sutra your essential guide to mathematics

national bestseller 2nd revised updated edition with trigonometry vedic mathematics is gaining widespread popularity among the student community as well as maths lovers the absence of a book explaining the techniques in a simple language has been felt acutely for a long time this book has been written using a step by step approach and attempts to fill the existing void it includes several solved problems in addition to 1000 practice problems with answers it also includes a special chapter which shows the application of the techniques to problems set in competitive exams like cat cet etc people from all walks of life including school and college students teachers parents and also those from non mathematical areas of study will discover the joys of solving mathematical problems using the wonderful set of techniques called vedic maths

vedic system of mathematics is an ancient but coherent system of mathematics it involves beautiful unification of all the calculation procedures based on simple rules and principles in sixteen sutras word formulas as propounded by swami bharati krishna tirathji present system of competitive exams is calling shot at speedy accurate in problem solving and mastery of vedic mathematics can do wonders for students appearing at different exams for example cat mat bank po lic aao etc vedic mathematics made easy is the scientific synchronization of 16 sutras and its applications with the learning pace pattern of different categories of readers it describes the natural thinking pattern of mind and provides appropriate solutions for intricate mathematical sums involving large calculations in minimum time frame each of the 21 chapters is followed by two exercises one for practice and the other with previous years questions asked in quantitative aptitude section of various competitive and management entrances table of contents sixteen sutras of vedic mathematics addition subtraction multiplication division divisibility square and square roots cube and cube roots decimals factorization highest common factor hcf simple equations cubic equations biquadratic equations simultaneous equations factorizations and differential calculus partial fractions integration by partial fractions pythagoras theorem appolonius theorem analytical geometry hints solutions

a simplified approach for beginners can you multiply 231072 by 110649 and get the answer in just a single line can you find the cube root of 262144 or 704969 in two seconds can you predict the birth date of a person without him telling you can you predict how much money a person has without him telling you can you check the final answer without solving the question or in a special case get the final answer without looking at the question can you solve squares square roots cube roots and other problems mentally all this and a lot more is possible with the techniques of vedic mathematics described in this book the techniques are useful for students professionals and businessmen the techniques of vedic mathematics have helped millions of students all over the world get rid of their fear of numbers and improve their scores in quantitative subjects primary and secondary school students have found the vedic mathematics approach very exciting those giving competitive exams like mba mca cet upsc gre gmat etc have asserted that vedic mathematics has helped them crack the entrance tests of these exams

the vedas are considered divine in origin and are assumed to be revelations from god in traditional hinduism the vedas were to be learnt only by the upper caste hindus the lower castes sudras and so called untouchables who were outside the hindu social order were forbidden from even hearing to its recitation in recent years there have been claims that the vedas contain the cure to aids and the production of electricity here the authors probe into vedic mathematics that gained renown during the revivalist hindutva rule in india and was introduced into school syllabus in several states and explore if it is really vedic in origin or mathematics in content to gain a better understanding of its imposition we interviewed students teachers parents educationists and activists we analyze this problem using models like fuzzy cognitive maps fcm fuzzy relational maps frm and newly constructed fuzzy dynamical system and their neutrosophic analogues the issue of imposition of vedic mathematics into the school curriculum involves religious politics caste supremacy apart from elementary arithmetic so we use fuzzy and neutrosophic techniques to gain acute insight into how students have been affected because of this politically motivated syllabus revision

vedic maths is a system of reasoning and mathematical working based on ancient indian teachings called veda it is fast efficient and easy to learn and use vedic mathematics which simplifies arithmetic and algebraic operations given in your ncert books solutions has increasingly found acceptance the world over experts suggest that it could be a handy tool for those who need to solve mathematical problems faster by the day how fast you can solve a problem is very important ncert exemplar problems provide the same practice there is a race against time in all the competitions only those people having fast calculation ability will be able to win the race time saved can be used to solve more problems or used for difficult problems

vedic mathematics is a collection of techniques sutras to solve mathematical arithmetics in easy and faster way it consists of 16 sutras formulae and 13 sub sutras sub formulae which can be used for problems involved in arithmetic algebra geometry calculus conics vedic mathematics simplifies arithmetic and algebraic operations and has increasingly found acceptance the world over vedic mathematics helps find solutions in a single or a few steps where as conventional methods require multiple steps vedic mathematics eases and simplifies multiplication divisibility complex numbers squaring cubing square and cube roots even recurring decimals and auxiliary fractions can be handled by vedic mathematics vedic mathematics step by step written in simple language which is self explanatory with lot of solved examples sufficient exercises

gift these books your kids gift of knowledge it helps to eradicate fear of mathematics completely it helps to learn school maths easy way this book is for children in class 3 4 5 standard 8 10 years vedic mathematics is a collection of techniques sutras to solve mathematical arithmetics in easy and faster way it consists of 16 sutras formulae and 13 sub sutras sub formulae which can be used for problems involved in arithmetic algebra geometry calculus conics vedic mathematics simplifies arithmetic and algebraic operations and has increasingly found acceptance the world over vedic mathematics helps find solutions in a single or a few steps where as conventional methods require multiple steps

the author has attempted to codify several useful results embedded in the ancient lore in a form which is easily accessible to the children learning mathematics many of the chapters deal with computations using simple techniques which will shorten the effort involved in the conventional approach the price one pays of course is that one has to learn the tricks memorize them and use the appropriate one for each problem while one might think that this takes away the generality of the modern approach it certainly has the element of charm and intrigue which children and grown ups will find entertaining even working out why many of these approaches lead to correct results is a valuable exercise by itself contents foreword preface feedback introduction 1 complement subtraction multiplication by specific numbers base multiplication working base multiplication multiplication algebra digital roots divisibility division i division ii squares straight squaring cubes square roots of exact squares cube roots of exact cubes straight division square roots ii sutras glossary index

the remarkable system of vedic mathematics was created after careful study of ancient sanskrit texts early last century the vedic system with its direct easy and flexible approach forms a complete system of mental mathematics though the methods can also be written down and brings out the naturally coherent and unified structure of mathematics many of the features and techniques of this unique system are truly amazing in their efficiency and originality being a mental system vedic mathematics encourages creativity and innovation mental mathematics increases mental agility improves memory the ability to hold ideas in the mind and promotes confidence as well as being of great practical use this course consists of three textbooks an answer book and a teacher s guide the course is aimed at 11 14 year old pupils though some of it is very suitable for children from 8 years vedic mathematics is being taught in many schools world wide with great success many top mathematics prizes have been won by students of this system

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