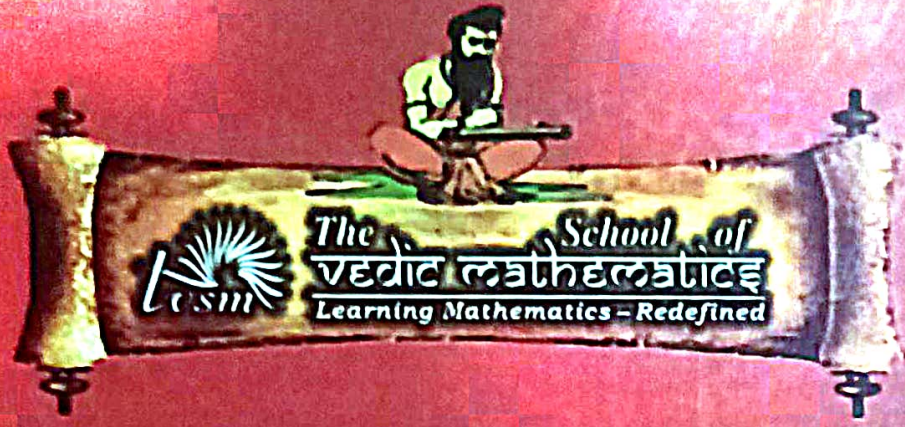




शून्यम् सामय् समुच्चयः

Experience The Power of Vedas

About Sunant Grover

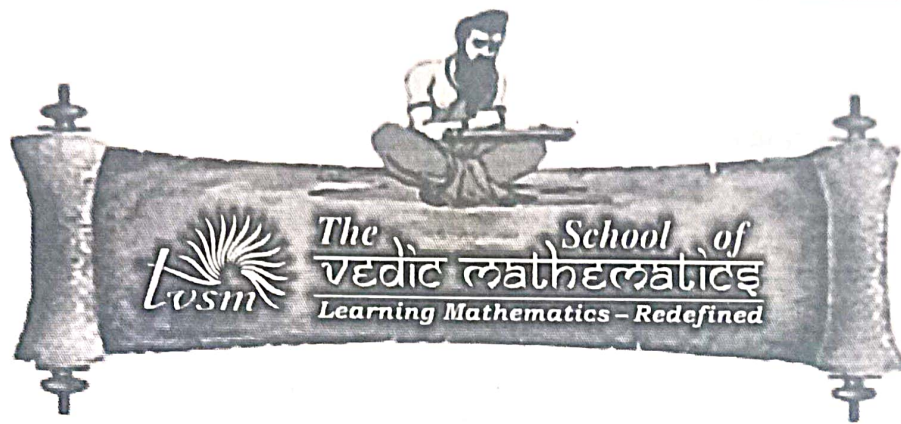
Sunant Grover is renowned Vedic Mathematics and Learning Skills Trainer. He is a man with mission to teach Vedic System of learning mathematics which can enable the students to perform calculations and learning at super fast speed with accuracy.

His core area is Vedic Mathematics where he gives 3 level training with which any student can perform calculations 10 times faster even without paper or pen and thereby improving memory & concentration of students.

He has given many seminars in National & International organizations including schools, colleges, engineering colleges on Vedic Mathematics in which more than 1 lakh students, teachers and parents have participated & benefited.

His vision is to explore and develop super fast, simplest, easy and accurate mental techniques for the students so that they can study any subject not with burden but with fun.





A
Comprehensive
Study Material
on
Vedic Mathematics
(Level - I Course)
by
Renowned Vedic Maths Trainer
Sunant Grover
(Founder : The Vedic School of Mathematics)

Dedicated to : All Learners & Trainers

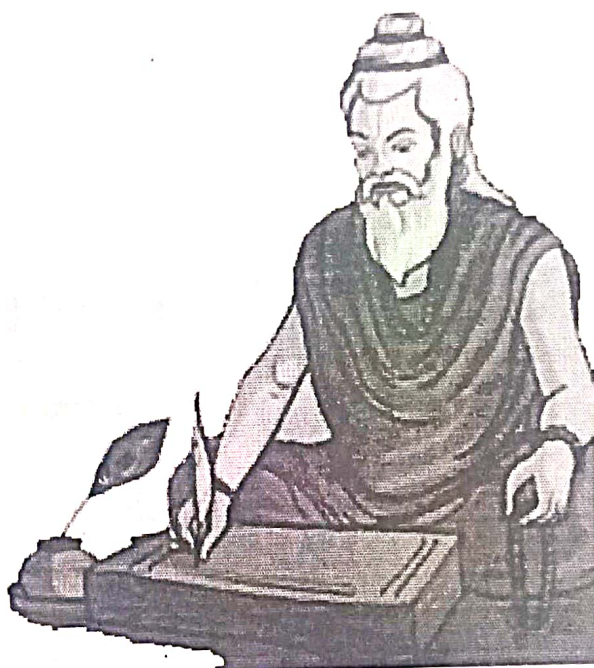
What is High Speed Vedic Maths?

High Speed Vedic Mathematics is a super fast way of calculation whereby you can do supposedly complex calculations like 1008×1012 , 85^2 , $1/39$ etc. in less than five seconds. It is highly beneficial for school and college students and students who are appearing for their entrance examinations.

High Speed Vedic Mathematics is traditional systematic, simplified and unified system for calculations. It is a mental tool for calculation that encourages the development and use of intuition and innovation, while giving the student a lot of flexibility, fun and satisfaction.

Therefore it's direct and easy to implement in schools a reason behind its enormous popularity among academicians and students. It complements the Mathematics curriculum in schools by acting as a powerful checking tool and goes to save precious time in examinations.

There are just 16 Sutras solve all known mathematical branches of Arithmetic and Calculus. They are apply and easy to re- High Speed Vedic by Swami Sri Bharati who was the Highest Order) of They are called "Vedic" said to be contained in



or Word Formulae which mathematical problems in the arithmetic, Algebra, Geometry easy to understand, easy to member.

Mathematics was founded Krishna Tirthaji Maharaja Sankaracharya (Monk of Govardhan Matha in Puri. as because the sutras are the Atharva Veda a branch

of mathematics and engineering in the Ancient Indian Scriptures.

History of High Speed Vedic Maths?

In this direction the Sankaracharya of Govardhan Matha Puri Jagadguru Swami Sri Bharati Krishna Teerthaji Maharaja has explored the encoded vedic mysteries and retrieved a set of mathematical sutras from the Vedic literatures. Swami Sri Bharati Krishna Teerthaji was a scholar extraordinaire. A profound master of modern subjects including mathematics. Later after attaining sanyasa he went into solitude at Saradha Peeth in Sringeri and relentlessly pursued the study of Vedic scriptures with the consequence that he reconstructed a set of 16 sutras and 13 sub sutras from the Vedic text covering every branch and part of mathematics. We owe deeply to the Sankaracharya for his revelation to popularize Vedic Mathematics.

Sources of the Sutras

Bharati Krishna Teerthaji got his revelations from a particular portion of the Atharvaveda called the Ganita Sutras. The Ganita Sutras are also called Sulba Sutras, "the easy mathemati-

cal formulae", that's the meaning of the expression. Now these texts were in Sanskrit and the grammar, the literature and the figures of speech in Sanskrit give great facility of expressing one's dispositions in a number of different subjects but with the same set of words. Hence it becomes difficult for a person to understand the different layers of meanings encoded in one text.

BharatiKrishnaji underwent meditation for long years in the forest of Sringeri. He took the help of lexicographies, lexicons of earlier times, because as a language develops and comes in context with other languages words change their meaning. Words get additional meaning, words get deteriorated in meaning. So BhartiKrishnaji studied old lexicons including Visva, Amara, Arnava, Sabdakalpardruma etc. With these he got the key in that way in one instance and one thing after another helped him in the elucidation of the other sutras (formulae).

It was to His Holiness's extreme amazement that the sutras dealt with mathematics in all its branches. He realized only sixteen sutras cover all branches of mathematics arithmetic, algebra, geometry, trigonometry, physics, plain and spherical geometry, conics, calculus, both differential and integral, applied mathematics of various kinds, dynamics, hydrostatics, static, kinematics and all.

There is a sub-sutra SisyaSesamjnah which translated into English means "Remainder remains constant". His Holiness Jagadguru Swami Nischalanandji has revealed with his divine grace that it belongs to SrimadBhagavatam (BhagavataPurana) (10.3.25).

The line literally means "With the cosmos at its end after millions and millions of years when the primary elements merge with the subtle and everything manifested by the force of Time turns unmanifest, is Your Lordship, the One with the Many Names, the only one to remain." The mathematical meaning of this is "Remainders remains constant" i.e. as the divisor goes on increasing in a certain ratio, the quotient goes on decreasing, proportionately; but the remainder remains constant.

SUTRAS OF VEDIC MATHS

Sutra	Translation
एकाधिकेन पूर्वेन	By one more than the one before.
निखिलं नवतश्चरमं दशतः लघ्वर्ध्वतिर्यग्भ्याम्	All from 9 and the last from 10. Vertically and Cross-wise
परावर्त्य योजयेत् शून्यं साम्यसमुच्चये	Transpose and Apply If the Samuccaya is the Same it is Zero
आनुरूप्ये शून्यं अन्यत् संकलन व्यवकलनाभ्यां	If One is in Ratio the Other is Zero By Addition and by Subtraction
पूरणापूरणाभ्यां	By the Completion or Non-Completion
चलनकलनाभ्याम्	Differential Calculus
यावदूनं व्यष्टिसमष्टिः	By the Deficiency Specific and General
शेषाण्यडेन चरमेण	The Remainders by the Last Digit
सोपान्त्यदयमन्त्यं	The Ultimate and Twice the Penultimate
एकन्यूनेन पूर्वेन	By One Less than the One Before
गुणितसमुच्चयः गुणकसमुच्चयः	The Product of the Sum All the Multipliers

SUB-SUTRAS OF VEDIC MATHS

Sub Sutra	Translation
आनुरूप्येण	Proportionately
शिष्यते शेषसंज्ञः	The Remainder Remains Constant
आधमाधेनान्त्यमन्त्येन	The First by the First and the Last by the Last
केवलैः सप्तकं गुण्यात्	For 7 the Multiplicand is 143
वेष्टनम्	By Osculation
यावदूनं तावदुनं	Lessen by the Deficiency
यावदूनं तावदूनीकृत्य वर्गं च योजयेत्	Whatever the Deficiency lessen by that amount and set up the Square of the Deficiency.
अन्त्ययोर्दशकेऽपि	Last Totalling 10
अन्त्ययोरेव	Only the Last Terms
समुच्चयगुणितः	The Sum of the Products
लोपनस्थापनाभ्यां	By Alternative Elimination and Retention
विलोकनं	By Mere Observation
गुणितसमच्चयः समुच्चयगुणितः	The Product of the Sum is the Sum of the Products
ध्वजाङ्क	On the Flag

AN INTRODUCTION

Vedic Mathematics is Ancient Indian system taken from "Atharva Veda." This system is based on Sutras and Sub-Sutras which provide simplest, easiest, super fast and mental techniques to solve any mathematical problem. This system has been adopted globally by many institutions to teach mathematics. This system provides such techniques by using which brain and memory becomes sharp automatically. Vedic Mathematics deals in almost every branch of mathematics and provides an unconventional but simple approach to learn mathematics.

OUR MISSION

Our mission is to enable students of our country to learn mathematics in such a manner that they may solve any type of problem in mathematics with ease and fun. Since mathematics is the King of all sciences, as it is used in every other subject and in every sphere of life. In this competitive world when the speed and accuracy is must for everybody to achieve their goals, the techniques to solve the problems, which are accurate as well as super fast are need of time. At "TVSM" we are committed to provide such a platform at which every student will learn and use such fastest techniques of calculations which will be helpful to them in every academic exam, competitive exam and in every sphere of life.

OUR VISION

Today we are just introducing the excellent system of Vedic Mathematics which provide simplest, easy, accurate and super fast mental techniques to solve mathematical problems. Although there are several institutions and organizations which are providing conventional techniques in mathematics but even then the fear factor of mathematics in the mind of students is increasing day-by-day. By introduction of Vedic Mathematics we are trying to remove fear factor of Mathematics from the mind of every students and to eliminate the maths phobia from our country. As Vedic Mathematics is the system taken from "Atharva Veda" (The Ancient Indian science), we will give a message to whole world that "We Indians have very rich Culture, Values and Sciences". In future more and more research work will be done at "TVSM" to explore the hidden treasure of Indian Science. We are committed to provide such an environment to our students in which they can learn mathematics so that they may successfully achieve their targets.

STAGES OF LEARNING THROUGH VEDIC MATHS



BEFORE

DURING

AFTER


The TVSM School of
vedic mathematics
Learning Mathematics – Redefined

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