

Sri – Om
VEDIC MATHEMATICS AWARENESS YEAR

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'Credit goes to Swami Bharti Krshna Tirtha Ji Maharaj to focus the attention of present generation about the values of Ganita Sutras (mental Mathematics Sutras)'

All are invited to join Awareness program

All are warmly invited to join the awareness program of Vedic Mathematics. All teachers, parents and students are invited to Learn and Teach Vedic Mathematics for proper intelligence growth at School.

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Sh. Rakesh Bhatia
Sh. Bhim Sein Khanna
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- Organizers

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LEARNING WITH SELF LEARNING

(Chapter from Book 'Vedic Mathematics (organization format of Ganita Sutras) of Dr. S. K. Kapoor)

LESSON - 10

APPLIED VALUES OF GANITA SUTRA-1

I

Ordering principle

1. Basic applied value of Ganita Sutra-1 एकधिकेन पूर्वेण / Ekadhiken Purvena is its '**ordering principle**' of sequential ranges of working rule 'one more than before'.
2. The first manifestation of this value is the '**set of counts**' known with designation of '**counting numbers**'.
3. The counts/counting numbers/whole numbers/natural numbers being the designations of the same set, in themselves well focus and indicate about the range of their applied Domain.
4. From counts themselves to cardinalities comparisons to sequential orderings of equations, determinants, matrices, tensors and derivatives, integrals, and whatnot, the geometric bodies, dimensional spaces and expressed domains as well as their un-expressed bases, all except coordination arrangements for their organisation formats in terms of this ordering principle and as such this principle and therefore this Sutra becomes the basic principle Sutra.

II

Artifice-9 supplies correctness surety test

1. The artifice 9 being only one unit deficient of the place value, which being 10, therefore the same is attainable in a single step of application of the working rule of Sutra-1. It is this attainment for artifice 9, that too, in a single step, makes the attainment being of prime importance for the application of the working rule of Sutra-1.
2. The numerals being the units but the moment these get placements along the place value format, which here being ten, these, naturally, get enhanced values being ten times of their original numeral values. It is this nine times increase in their original values, which makes the importance of artifice nine.

III

Illustrative application of decimal expressions for fractions

1. One of the area of operations of the working rule of Ganita Sutra-1 is in the domain of conversion of fractions into decimal expressions.
2. Like whole numbers, fractions as well constitute a set of infinite cardinality, and like whole numbers, the fractions as well are stitched and permit unfolding in terms of the working rule of Ganita Sutra-1.
3. When the numbers and fractions are approached along ten place value system, with nine as the largest numeral, naturally the artifice 9 becomes the artifice of basic focus.
4. It is because of this difference in the values of the numerals as originally these are from the values to which these get enhanced with their placements on ten place value format, the artifice 9 becomes the basic yard stick for the tests of correctness of arithmetic operations.
5. Illustratively when we simplify 27 and 37 and reach at the sum 64 , its correctness can be found by just adding the digits of 27 which shall be yielding 9 , which may be ignored (under the enhancement rule), then the digits of 37 shall be yielding 10 , and the same would get reduced to 1 . On the other hand the sum 64 for its digits shall be yielding 10 which as well would get reduced to 1 after adjustment of 9 towards the enhancement rule. With this there being the same numeral artifice, that is 1 , for left hand side as well as for the right hand side of equation $27+37=64$, so the sum is correctly reached at. Hence the test has demonstrated its worth.
6. The bigger numbers say $2770 + 3770$, when added would require the test of surety a more blissful tool.

News and Views

Invitation for participation in Vedic Mathematics textbooks project

INVITATION

1. We are undertaking the project of settling Vedic Mathematics text books for schools.
2. This project is for settlement of text books of Vedic Mathematics for classes eight to twelfth.
3. Text book for each class would be of three parts
Part – 1 'Vedic Mathematics for class VIII
(likewise for class 9, class 10, class 11 and class 12)
Part – 2 'Vedic Mathematics exercises for class VIII'
(likewise for class 9, class 10, class 11 and class 12)
Part – 3 'Teaching and evaluation manual of Vedic Mathematics for class VIII'
(likewise for class 9, class 10, class 11 and class 12)
4. Each sutra and Upsutra would be taken up in separate section exclusively devoted to particular Sutra / Upsutra.
5. This way in all, there would be 29 sections for coverage of all the sixteen Sutras and 13 Upsutras.
6. Participants may contribute for all the 29 sections but each Sutra and Upsutra shall be taken up as independent aspect of values of mathematics as every Sutra values are to be covered in distinct section.
7. The intellectual contribution of participants shall be duly recognized and same shall be properly respected.
8. In the light of this theme, we shall be making separate requests for each sutra and upsutra.

Request of participation about the values of Ganita Sutra 10

यावदूनम् ।

By the Deficiency

1. We feel privileged to request all to participate in our project of Vedic Mathematics text books for classes eight to twelfth.

2. We request you all to participate and contribute your intellectual inputs about the values of Ganita Sutra 10.
3. Also contribute about the values of Ganita Sutra 10 as being complemented and supplemented by the values of other Sutras and Upsutras.
4. We shall be highly thankful for this participation and contribution.
5. We shall be duly recognizing this participation and contribution of intellectual inputs about the values of Ganita Sutra 10.
6. We shall be highly being our respects and thanks in recognition of the intellectual inputs of participants.
7. It is a noble cause.
8. Please participate.

12-11-2014

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