Sri – Om

VEDIC MATHEMATICS AWARENESS YEAR

'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.

Dr. S. K. Kapoor
Sh. Rakesh Bhatia
Sh. Bhim Sein Khanna
Sh. Deepak Girdhar
        - Organizers

ISSUE NO 99

श्री ॐ *Sri-Om*
VEDAS ARE WRITTEN ON RAYS OF SUN
Let us learn to read it

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I
Shakala Rigved Samhita
FIRST RICHA

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"अग्निमीले पुरोहितं यज्ञस्य देवमृत्विजम् ।
होतारं रत्नधातमम् ।। 'ऋ१-१-१"

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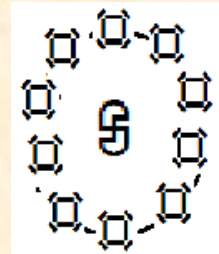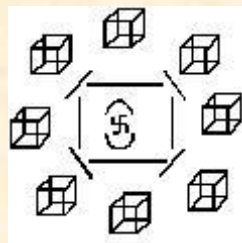**Recapitulation**

Organization foundation format
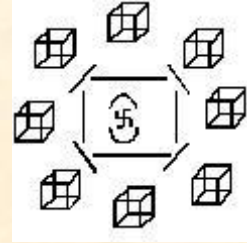
Second learning step

Transition from creative (4-space) to transcendental (5-space) format

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Third learning Step

Recapitulation

1. Let us recapitulate the reach at 'organization foundation format'
2. Let us revisit the attainment of transition from hyper cube 4 format and features of organization format to format and features of hyper cube 5.
3. A step ahead would be a reach from organization foundation format of hyper cube 4 to self referral (6-space) state of Vishnu lok of hyper cube 6 format of Sun in two sequential phases of transition firstly from the format of hyper cube 4 to format of hyper cube 5 and secondly from the format of hyper cube 5 to format of hyper cube 6.
4. The first step as such would be a transition from four fold manifestation layer (2, 3, 4, 5) into four fold manifestation layer (3, 4, 5, 6).
5. The second step would be a transition from format of (3, 4, 5, 6) to the format of (4, 5, 6, 7).

Learning Steps

6. The learning steps of above phases and stages essentially are of following attainments
   (i)   Hyper cube 4 manifestation format
   (ii)   Transcendence format of hyper cube 5
   (iii)   Self referral (6-space) domain of hyper cube 6
7. The above three fold attainment is of many features.
8. These features accept chase as a unity state chase of 7 steps covering 1-space to 7-space values in their different roles.
9. One way to approach this range of features is in terms of 1-space to 7-space content.
10. First feature of space content would be its manifestation (as domain fold).
11. The second feature would be of the format of enveloping of domain fold.
12. It is this enveloping feature which shall be taking us to 'boundary fold'.
13. The permissibility of the split of the boundary fold, as such shall be leading to different versions for domain fold.
14. The chase features of different versions of domain folds would be in terms of the availability of number of boundary components for the domain fold of particular version of the domain fold.
15. These versions of domain folds make them geometric bodies of corresponding geometry of the space content manifesting domain fold.

16. N-space has $(2n +1)$ geometries range of n-space.

17. Parallel to $2n+1$ geometries of n-space, there are $2n + 1$ versions of hyper cube n.

18. As far as the dimensional frames and origins of hyper cube n are concerned, the same have a common role for all the geometries of n-space and hence for all the versions of hyper cube n.

19. However as domain fold as well as origin fold are the roles of concerned spaces content, hence of space contents and so as domain folds, and that being so, all these features of versions of domain folds, that way, would be having there contribution towards the features in those roles as well.

20. One may have a pause here and take note that the above features make out a very rich structural components.

21. The organization foundation format, as such deserve to be revisited and chased in the light of the availability of the above set of features of different versions of domain folds marking their presence even in the roles of dimension fold, boundary fold, domain fold and origin fold of the manifestation layer of every hyper cube manifesting within creator's space (4-space).

22. To have an idea of the same, one may tabulate the organization of 432000 syllables (of about 10 lacs letters) as 10552 richas as 85 anuwaks, 64 chapters, 8 austaks, 10 mandals, 1028 suktas and 2024 vargas in terms of 397295 syllables and also sustaining remaining 34735 unmanifest syllables.

23. Let the exercise of tabulation of ten mandals, suktas and vargas of the richas range be taken as the first step and the same shall be leading too.

Mandal,	Sukta,	Richas,	Vargas
1	1	9	2
1	2	9	2
1	3	12	2
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to be continued....

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*   **01-02-2015,** Dr. S. K. Kapoor, *(Ved Ratan)*

Ganita Sutras objective &
short questions Tests
and full comprehension tests

Test – 5

Sutra Specific test

For ready reference the following tables are being made available, so that the tests can be taken up in the right earnest of comprehension evaluation.

Sutra 6
Text (आनुरूप्ये) शून्यमन्यत् ।

Sn.	1	2	3	4	5	6	7	8	9	10
letters	आ	न्	उ	र्	ऊ	प्	य्	ए	श्	ऊ
TCV	2	8	3	3	6	5	1	6	2	6
total	2	10	13	16	22	27	28	34	36	42
VCV	0	5	0	2	0	1	1	0	5	0
Total	0	5	5	7	7	8	9	9	14	14
Sn.	11	12	13	14	15	16	17	18	19	
letters	न्	य्	अ	म्	अ	न्	य्	अ	त्	
TCV	8	1	1	8	1	8	1	1	4	
total	50	51	52	60	61	69	70	71	**75**	
VCV	5	1	0	5	0	5	1	0	6	
Total	19	20	20	25	25	30	31	**31**	**37**	

Syllables	आ	नु	रू	प्ये	शू	न्य	म	न्य	त्
TCV	2	11	9	12	8	10	9	10	4
Total	2	13	22	34	42	52	61	71	**75**
VCV	0	5	2	2	5	6	5	6	6
total	0	5	7	9	14	20	25	31	**37**

Words Formulation	आनुरूप्ये	शून्यमन्यत्
TCV	34	41
Total	34	**75**
VCV	9	28
Total	9	**37**

Words sub Formulation	आनु	रूप्ये	शून्य्	अन्यत्
TCV	13	21	28	23
Total	13	34	52	**75**
VCV	5	4	11	17
total	5	9	20	**37**

Q 1. Read text of Ganita Sutra 6?

Q 2. Pronounce text loudly text of Ganita Sutra 6 with focus upon all the 19 letters availed by the text?

Q 3. Chase text of Ganita Sutra 6 as two words formulations?

Q 4. Chase text of first word composition 'आनुरूप्ये' *Anurupye* availing six letters?

Q 5. Chase text of second word composition 'शून्यमन्यत्' *Sunyamanyat* availing five letters?

Q 6. Reach at the rendering for the text as 'आनु' means to follow, 'रूप्ये' as follow the form, as 'शून्यम्' (zero), (अन्यत्) means brings in?

Q 7. Express your comprehension:

(i) $1^0 = 1, 2^0 = 1, 3^0 = 1, ---$
(ii) $0^1 = 0, 0^2 = 0, 0^3 = 0, --$
(iii) $1 \times 0 = 0, 2 \times 0 = 0, 3 \times 0 = 0, ----,$
(iv) $0 \times 0 = 0.$

Q 8. Express your comprehension

(i)   0 as 0 space.
(ii)   Symbol of '0'
(iii)   0 as 0 –space unit
(iv)   0 as 0 unit space content
(v)   0 space content manifesting as domain fold of hyper cube 0.
(vi)   0 as structured point of domain fold of hyper cube 0.
(vii)   0 as structured as domain fold of hyper cube 1.
(viii) 0 as structured point of domain fold of hyper cube 2.

Q 9. Express

(i)   0 as 1 line (of zero area).
(ii)   0 as 1-space (of zero volume).
(iii)   0 as 1 solid (of 0 hyper volume.

Q 10. Express your comprehension

(i)   0 space in the role of dimension
(ii)   0 space as dimension fold of hyper cube 2

(iii)   Synthesis value of pair of dimensions of 0 order i.e. 0 x 0 = 2
(iv)   0 x 0 x 0 = 6.

Q 11 Express your comprehension:

(i)   0 as place value of ten place value system
(ii)   0 as place value of nine place value system
(iii)   0 as place value of eight place value system
(iv)   0 as place value of seven place value system
(v)   0 as place value of six place value system
(vi)   0 as place value of five place value system
(vii)   0 as place value of four place value system
(viii) 0 as place value of three place value system
(ix)   0 as place value of two place value system

Q 12. Express your comprehension

(i)   0 as place value of (1) place value system
(ii)   0 as place value of (0) place value system
(iii)   0 as place value of (-1) place value system
(iv)   0 as place value of (-2) place value system

Q 13. Express your comprehension

(i)   0-space plays different roles which permit depiction as under

-3	-2	-1	0
-2	-1	0	1
-1	0	1	2
0	1	2	3

   Elaborate features of above four roles of 0-space as manifestation folds of hyper cube 2, hyper cube 1, hyper cube 0 and hyper cube -1.

Q 14. Express your comprehension of five different roles of 0-space as per the following depiction?

-4	-3	-2	-1	0
-3	-2	-1	0	1
-2	-1	0	1	2
-1	0	1	2	3
0	1	2	3	4

Q 15. Comment
(i)   Word 'शून्यम्' does not appear in text of Rigved Samhita, Yajurved Samhita and Samved Samhita but it appears only once in Atharaved Samhita.
(ii)   Elaborate fully of your comprehension of 'शून्यम्'

*   **01-02-2015**   Dr. S. K. Kapoor, *(Ved Ratan)*