

# 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.*

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

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श्री ॐ Sri-Om

VEDAS ARE WRITTEN ON RAYS OF SUN  
*Let us learn to read it*

I

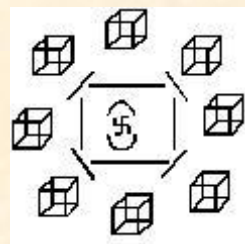
Shakala Rigved Samhita

FIRST RICHA

“अग्निमीले पुरोहितं यज्ञस्य देवमृत्विजम् ।  
होतारं रत्नधातमम् ॥ ‘ऋ१-१-१’”

Recapitulation

Organization foundation format



1. Let us revisit ‘organization foundation format’ being of features parallel to ‘Idol of Brahma’. It shall be taking us to the format and features of hyper cube 4.
2. Let us have a fresh reach at the format and features of hyper cube 4 by having a start with the set up of ‘cube’. For a reach from the set up of cube to the set up of hyper cube 4, one shall have a fresh look at the set up of ‘three dimensional frame.

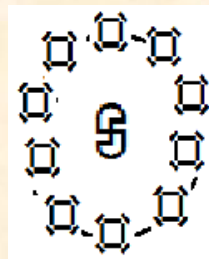
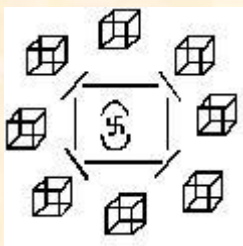
3. The setup of Three dimensional frame takes us to a set up of three linear dimensions and its origin being the seat of 4-space. With it, naturally for the reach at the format of hyper cube 4, our focused attention shall be upon the origin of three dimensional frame itself.
4. The super imposition of origin of a three dimensional frame upon the center of cube shall be providing us insight as to how one can sequentially have a transition from the set up of cube to the set up of hyper cube 4.

### **Second learning step**

5. Taking first learning step providing us a transition from the set up of a cube to the set up of hyper cube 4, the second learning step would be to have a reach from the set up of hyper cube 4 to the set up of hyper cube 5.
6. This sequential progression of learning from first learning step to the next learning step, as such, also can be taken as that while the first learning step gives an insight of origin of 3-space taking to the origin of 4-space, and in continuity, the second learning step shall be taking us from origin of 4-space to origin of 5-space.
7. One may have a pause here and have a fresh look at the set up of the cube as of the format and features of hyper cube 4 accepting four fold manifestation layer features and the transition from the set up of cube to hyper cube 4 shall be emerging to be the transition from four fold manifestation layer format of hyper cube 3 to the four fold manifestation layer format of hyper cube 4.
8. This as such would amount to having quarter by quarter transition from the format of four fold manifestation layer of cube as hyper cube 3, namely from the set up of quadruple artifices (1, 2, 3, 4) parallel to four fold manifestation layer (1-space as dimension fold, 2-space as boundary fold, 3-space as domain fold, 4-space as origin fold) to the set up of quadruple artifices (2, 3, 4, 5) parallel to (2-space as dimension, 3-space as boundary, 4-space as domain, 5-space as origin fold of hyper cube 4).
9. That way, quarter by quarter transition from the format of cube / hyper cube 3 to the format of hyper cube 4 shall be of following four sequential steps
  - (i) Transition from 1-space in the role of linear dimension to the role of 2-space as spatial dimension

- (ii) 2-space in the role of spatial boundary to 3-space in the role of solid boundary.
- (iii) 3-space in the role of domain to 4-space in the role of domain.
- (iv) 4-space in the role of origin to 5-space in the role of origin.

10. One may have a pause here and sequentially revisit the above four fold quarter by quarter transition step.
11. The first quarter transition from linear dimension to spatial dimension shall be bringing us face to face with lines as axes to surfaces as axes.
12. At second step we shall be face to face with surfaces as boundaries transiting into solids as boundaries.
13. At third step, there would be a transition from solid domains to hyper solids domains.
14. At fourth step we would be face to face with a transition from creative (4-space) origin to transcendental (5-space) origin.
15. The first transcendental (5-space) step would be of the features of a transition from a set up of three linear axes to the set up of four spatial axes.
16. The second transition step shall be bringing us face to face with the transition from boundary of six surfaces into boundary of 8 solids.
17. Third transition step shall be bringing us face to face with 3-space content lump manifesting as domain fold enveloped within 2-space content lump, as the starting point and reach therefrom to be of the features of 4-space content lump manifesting as enveloped by 2-space content lump.
18. The fourth step would be of the format and features of origin being of a spatial dimensional order being the starting point and the transition reach to be as transcendental (5-space) origin of solid dimensional order.
19. One shall have a pause here and have a fresh look at the set ups of hyper cube 4 and hyper cube 5.



20. One shall learn transition from the format and features of hyper cube 4 to the format and features of hyper cube 5.

21. This learning is to be of four folds attainable by quarter by quarter methodology of sequential progression. At first step the transition would be from spatial dimensional order to solid dimensional order.
22. It shall be attaining a transition from a dimensional frame of four spatial dimensions to solid dimensional order of five solid dimensions.
23. The second quarter transition step would be attaining transition from solid boundary of eight components to creative boundary of ten components.
24. The third transition step shall be taking us from the manifestation of 4-space content lump within creative boundary to the manifestation of transcendental (5-space) content lump within physical boundary to manifestation of transcendental (5-space) content lump within creative boundary.
25. Finally the transition would be from transcendental (5-space) origin to self referral (6-space) (origin).
26. One may have a pause here and have a fresh look of the transition steps from the format of cube to hyper cube 4 and ahead, from the set up of hyper cube 4 to hyper cube 5.
27. Amongst others, the first glaring feature which would surface would be that in case of transition from cube to hyper cube 4 format, the transcendence range (1, 2, 3, 4, 5) comes into play, while in case of second transcendence attainment from the format of hyper cube 4 to hyper cube 5, the transcendence range of values (2, 3, 4, 5, 6) comes into play.
28. One shall have a pause here and permit the transcending mind to be face to face with above transition features and to glimpse the values and virtues of the above transition steps as transcendence from the four fold manifestation layers and thereby attaining transition from four fold manifestation layers format into five fold transcendence ranges.
29. It would be a very blissful experience to continue glimpsing the above transition Phenomenon as the transcendental (5-space) Phenomenon.
30. Here it also would be relevant to note that the four fold manifestation layer (1, 2, 3, 4) becomes a transcendence range (0, 1, 2, 3, 4) without in any way causing any difference of summation values in both cases as  $(1+2+3+4) = 10 = 0+1+2+3+4$ .

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**31-01-2015, Dr. S. K. Kapoor, (Ved Ratan)**

**Ganita Sutras objective &  
short questions Tests  
and full comprehension tests**

**Test - 4**

**Sutra Specific test**

1. Each Sutra is of distinct features and is also of distinct values of Mathematics, Sciences and Technologies, and as such, one way to test the knowledge would be to take the Sutra specific tests?
2. Here Sutra 5 specific tests is being coined.
3. Sutra 5 'शून्यं साम्यसमुच्चये', prominently takes up the concept of 'शून्यं zero (0)'.
4. The terms 'cipher, zero and शून्यं' deserve to be chased distinctively as well as simultaneously.
5. Zero as value and zero as a state as well deserve to be comprehended distinctively 'together' as well as 'distinctively'.
6. Sutra 5 sequentially is of placement after Sutra 4 'परावर्त्य योजयेत् ।' / *Paravartya Yojayet* (transpose and apply).
7. Sutra 5 is followed by Sutra 6 '(आनुरूप्ये) शून्यमन्यत् ।', which supplements Sutra 5, as to the features and values of 'शून्यं zero (0)'.
8. Further the comprehension of Sutra 5 would become valuable when the text of Sutra 5 is approached in terms of its distinct words formulations, syllables and letters being availed and work out.
9. Still further the Vedic code values and transcendental (5-space) code values available in reference to text of Ganita Sutra 5 would be helping acquire insight about the features, values and virtues of this sutra in the domain of pure and applied values of Mathematics, Sciences, Technologies and in the domain of Discipline of VMS & T.
10. 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 5**

Text शून्यं साम्यसमुच्चये ।

Sn.	1	2	3	4	5	6	7	8	9	10
letters	श्	ऊ	न्	य्	अ		स्	आ	म्	य्
TCV	2	6	8	1	1	9	3	2	9	1
total	2	8	16	17	18	27	30	32	41	42
VCV	5	0	5	1	0	0	6	0	5	1
Total	5	5	10	11	11	11	17	17	22	23
Sn.	11	12	13	14	15	16	17	18	19	20
Letters	अ	स्	अ	म्	उ	च्	च्	अ	य्	ए
TCV	1	3	1	9	3	2	2	1	1	6

Total	43	46	47	56	59	61	63	64	65	<b>71</b>
VCV	0	6	0	5	0	6	6	0	1	0
total	23	29	29	34	34	40	46	46	47	47

Syllables	शू	न्यं	सा	म्य	स	मु	च्च	ये
TCV	8	19	5	11	4	12	5	7
Total	8	27	32	43	47	59	64	<b>71</b>
VCV	2	6	6	6	6	5	12	1
total	2	8	14	20	26	31	43	44

Words Formulation	शून्यं	साम्य	समुच्चये
TCV	27	16	28
Total	27	43	<b>71</b>
VCV	10	12	24
total	10	22	46

Words sub Formulation	शून्यं	साम्य	सम्	उच्चये
TCV	27	16	13	15
Total	27	43	56	<b>71</b>
VCV	10	12	11	13
total	10	22	33	46

Q 1. Read text of Ganita Sutra 5?

Q 2. Pronounce text loudly text of Ganita Sutra 5 with focus upon all the 20 letters availed by the text?

Q 3. Chase text of Ganita Sutra 5 as three words formulations?

Q 6. Chase text of first word composition 'शून्यं' *Sunyam* availing six letters?

Q 7. Chase text of second word composition 'साम्य' *Samya* availing five letters?

Q 8. Chase text of third word composition 'समुच्चये' *Samuccaye* availing nine letters?

Q 9. Chase six letters of first word formulation 'शून्यं' *Sunyam* in terms of Vedic code values and transcendental code values?

Q 10. Chase six letters of second word formulation 'साम्य' in terms of Vedic code values and transcendental code values?

Q 11. Chase six letters of third word formulation 'समुच्चये' *Samuccaye* in terms of Vedic code values and transcendental code values?

Q 12. Express your comprehension of concept of 'शून्यं' *Sunyam* (0)?

- (i) 'Zero' as 'value'
- (ii) 'Zero' as a 'state'
- (iii) 'Zero' as a 'power'
- (iv) 'Zero' as un-manifest.
- (v) 'Zero' as a 'unit'
- (vi) 'Zero' as a zero space body
- (vii) 'Zero' as a zero space content lump
- (viii) 'Zero' as a zero space
- (ix) 'Zero' as a zero space in its rule of dimension fold of hyper cube 2 / 'square'.
- (x) Pair of zeros as pair of dimension structuring 2-space set up as domain fold.

Q 13. Express your comprehensions of format and features of formulation (सम) (equal)?

- (i) 'Equal' as a feature of 'equality'
- (ii) 'Equal' as a feature of being 'identical'.
- (iii) 'Equal' as a feature of being the 'same'.
- (iv) 'Equal' being the expression of no-values change of different sequential steps / phrases / states.
- (v) 'Equal' as a 'equity unit' for parallel chase of 'equalities' / (गणः) Gana.
- (vi) 'Equal' as a pair of neutral state elements carrying same features.

Q 14. Express your comprehensions of format and features of formulation (साम्य) (parallel)?

- (i) 'Parallel as parallel formats
- (ii) 'Parallel as parallel states
- (iii) 'Parallel as parallel progressions
- (iv) 'Parallel as parallel sequential progressions
- (v) 'Parallel as parallel 'equalities'

Q 15. Express your comprehensions of format and features of formulation (उच्चये) (upward pickup)?

- (i) Chase 'उच्चये' in sequential steps of letters being availed, viz (i) उ (ii) च् (iii) च् (iv) अ (v) य् (vi) ए
- (ii) Chase ends 'pair of letters as a
  - (a) A pair of third and sixth vowels
  - (b) A pair of equalities (3, 6)
  - (c) A pair of folds of four fold manifestation layer (3, 4, 5, 6)
  - (d) A pair of dimension fold and origin fold)
  - (e) A pair of states

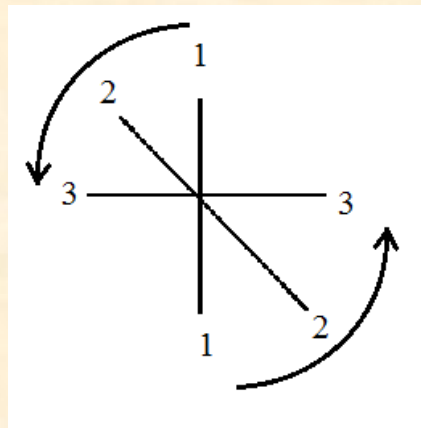
- (i) 3-space cube solid dimension, fire (third element), upward
- (ii) 6, 6-space, hyper cube 6, Sun, origin fold, towards pole star
- (iii) Chase middle parallel pair  
(च, च) and (अ, अ)

Of these first pair is of equal halves (च, च)

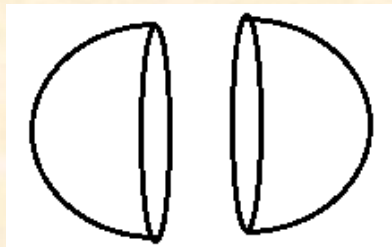
And second pair (अ, अ) as of object image reflection pairing

equality **S** **३** **२**

- (iv) Revisit, the ends pair artifices (३, ६) and comprehend their format and values of a reflection pairing and equality parallel of split of a three dimensional frame into a pair of three dimensional frame of half dimension.



It shall be bringing to focus the split of a sphere into a pair of hemi-sphere.



Here it would be relevant to note that circle splits as semi-circle & sphere splits as hemi-sphere.

$$\text{NVF (Semi)} = 19 + 27 = 46$$

$$\text{NVF (Hemi)} = 8 + 27 = 35$$

$$\text{NVF (Circle)} = 81$$

$$\text{NVF (Circle)} = \text{NVF (Sphere bag)}.$$

\* **31-01-2015**

Dr. S. K. Kapoor, (Ved Ratan)