

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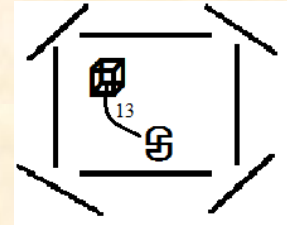
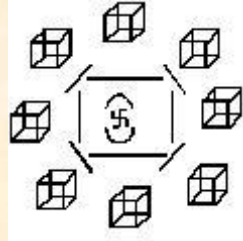
श्री ॐ Sri-Om
VEDAS ARE WRITTEN ON RAYS OF SUN
Let us learn to read it

I
Shakala Rigved Samhita
FIRST RICHA

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

Recapitulation

Organization foundation format



LEARNING STEPS

1. Organization foundation format
2. Reach from Hyper cube 4 to Hyper cube 5
3. Reach from Hyper cube 5 to Hyper cube 6
4. Hyper cube 4 format for each letter of Devnagri alphabet
5. Chase of 432000 akshras along geometric formats within 4-space
6. Divya Ganga Parvah
7. Learn to reach sequential progression from first syllable (अ, ग्) to last syllable (त्, इ) of 432000 syllables range

EIGHTH LEARNING STEP

Nine organizational strings of

Shakala Rigved Samhita

1. Nine organizational strings of Shakala Rigved Samhita are of
 (i) Letters (ii) Syllables (iii) Richas (iv) Vargas (v) Suktas
 (vi) Anuwaks (vii) Adheyes (viii) Austaks (ix) Mandals
2. Ten Mandals, 8 austaks, 64 adhyeys, 85 anuwaks, 1028 suktas, 2024 vargas, 10552 richas, 432000 akshras and 10 lacs letters are the steps of parallel organizational strings.
3. Ten Mandal organization of 1028 suktas comes to be as under :

Sn.	Mandal	Suktas	Total suktas
1	Mandal – 1	191	191
2	Mandal – 2	58	249
3	Mandal – 3	43	292
4	Mandal – 4	62	35
5	Mandal – 5	87	441
6	Mandal – 6	75	516
7	Mandal – 7	104	620
8	Mandal – 8	103	723
9	Mandal – 9	114	837
10	Mandal – 10	191	1028

4. Eight austaks organization of 1028 suktas comes to be as under :

Sn.	Austak	Suktas	Total	Grand total
1	Austak – 1	001-121	121	121
2	Austak – 2	122-340	219	343
3	Austak – 3	341-462	122	462
4	Austak – 4	463-614	152	614
5	Austak – 5	615-729	115	729
6	Austak – 6	730-842	113	842
7	Austak – 7	843-886	44	886
8	Austak – 8	887-1028	142	1028

5. Sixty four chapters organization of 1028 suktas / austaks / mandals comes to be as under :

Sn.	Austak	Chapter	Mandal	Suktas	Total suktas	Suktas Serials
1	1	1	1	1-19	19	1-19
2	1	2	1	20-32	13	20-32
3	1	3	1	33-46	14	33-46
4	1	4	1	47-61	15	47-61
5	1	5	1	62-80	19	62-80
6	1	6	1	81-94	14	81-94
7	1	7	1	95-112	18	95-112
8	1	8	1	113-121	9	113-121
9	2	9	1	122-136	15	122-136
10	2	10	1	137-157	21	137-157
11	2	11	1	158-165	8	158-165
12	2	12	1	166-183	18	166-183
13	2	13	1 / 2	184-191 / (1-8)	8+ 8 =16	184-199
14	2	14	2	9-22	14	200-213
15	2	15	2	23-36	14	214-227
16	2	16	2 / 3	37-43 / (1-6)	7+6 =13	228-240
17	3	17	3	7-29	23	241-263
18	3	18	3	30-40	11	264-274
19	3	19	3	41-56	16	275-290
20	3	20	3 / 4	57-62 / (1-4)	6+4	291-300
21	3	21	4	5-18	14	301-314
22	3	22	4	19-32	14	315-328
23	3	23	4	33-50	18	329-346
24	3	24	4 / 5	51-87 / (1-8)	8 + 8 = 16	347-362
25	4	25	5	9-32	24	363-386
26	4	26	5	33-46	14	387-400
27	4	27	5	47-62	16	401-416
28	4	28	5 / 6	63-87 / (1)	25+ 1 =26	417-442
29	4	29	6	2-16	15	443-457
30	4	30	6	17-28	12	458-469
31	4	31	6	29-47	19	470-488
32	4	32	6	48-61	14	489-502
33	5	33	6	62-75	14	503-516

34	5	34	6 / 7	1-19	19	517-535
35	5	35	7	20-35	16	536-551
36	5	36	7	36-59	24	552-575
37	5	37	7	60-80	21	576-596
38	5	38	7	81-100	20	597-616
39	5	39	7 / 8	101-104 /(1, 4)	4 + 4 = 8	617-624
40	5	40	8	5-11	7	625-631
41	6	41	8	12-20	9	632-640
42	6	42	8	21-31	11	641-651
43	6	43	8	32-45	14	652-665
44	6	44	8	46-67	22	666-687
45	6	45	8	68-81	14	688-701
46	6	46	8	82-97	16	702-717
47	6	47	8 / 9	98-103 /(1-12)	6+ 12 =18	718-735
48	6	48	9	13-43	31	736-766
49	7	49	9	44-64	21	767-787
50	7	50	9	65-75	11	788-798
51	7	51	9	76-90	15	799-813
52	7	52	9	91-100	10	814-823
53	7	53	9 / 10	101-114 /(1-5)	14+ 5 = 19	824-842
54	7	54	10	6-18	13	843-855
55	7	55	10	19-32	14	856-869
56	7	56	10	33-45	13	870-882
57	8	57	10	46-61	16	883-898
58	8	58	10	62-71	10	899-908
59	8	59	10	72-85	14	909-922
60	8	60	10	86-94	9	923-931
61	8	61	10	95-105	11	932-942
62	8	62	10	106-119	14	943-956
63	8	63	10	120-142	23	957-979
64	8	64	10	143-191	49	980-1028

6. Above six organizations stings of (i) 10 Mandals, (ii) 8 austaks, (iii) 64 adheyes (iv) 85 anuwaks (v) 1028 suktas and (vi) 10552 richas of 1028 suktas shall be helping us to proceed further part the parallel streams of vargas, syllables and letters.

7. As far as the vargas (2024) are concerned, the same are practically double of the number of suktas (1028). With it the organizational aspect remain to be of 432000 syllables and 10000 letters.
8. These aspects bring into (i) Chandas (meters / filters) and Swaras (vowels) / sound frequencies.
9. Each richa, as such for its organization format, deserve to be approached in terms of its chandas (meters) and Swara / Vowels.
10. The settlement of vowels and meters leads to the aspect of light domains (Devta) and transcendence of light through the domains (Rishi)
11. Ten Mandal organization of 85 anuwaks comes to be as under :

Sn.	Mandal	Anuwak	Total Anuwak
1	Mandal – 1	24	24
2	Mandal – 2	4	28
3	Mandal – 3	5	33
4	Mandal – 4	5	38
5	Mandal – 5	6	44
6	Mandal – 6	6	50
7	Mandal – 7	6	56
8	Mandal – 8	8	64
9	Mandal – 9	7	71
10	Mandal – 10	14	85

12. With it the organization format of Shakala Rigved Samhita leads to the following features (i) there are ten mandals. These are parallel to ten components of creative boundary of transcendental (5-space) domain. As such, each mandal as distinct creative format of hyper cube 4. Further as that these ten creative components are sequentially placed.
13. Still further 4-space in the role of dimension shall be leading us to range of values of one to ten dimensions set ups synthetic values (4, 6, 6, 4, 0, -6, -14, -24, -36 and -50). One may have a pause here and take note that decrease of value for the above range comes to be (2, 0, -2, -4, -6, -8, -10, -12 and -24).
14. It would be relevant to note that decreasing values sequence is of value 2 at each step. It further be relevant to note that parallel spatial order shall be leading us to creator's space (4-space).
15. It further be relevant to note that 4-space accepts solid boundary of 8 components.

16. Solid dimensional order for synthetic set ups of 1 to 8 solids dimensions shall be leading to the range of values (3, 5, 6, 6, 5, 3, 0, -4)
17. The above range of values accepts decrease of unit value at each step, that is (2, 1, 0, -1, -2, -3, -4).
18. One may have a pause here and take note that creative boundary leads to decreasing units ranges (2, 0, -2, -4, -6, -8, -10, -12 and -24), while in case of solid boundary decreasing unit range comes to be (2, 1, 0, -1, -2, -3, -4).
19. The organization of artifice value 64 (parallel to 64 chapters) comes to be the synthetic set up of 64 cubes leading to range of structural components of total summation value $(9)^3$ which accept re-organization as 3^6
20. One may have a pause here and take note that the inter relation ship of artifices pair $(4^3, 9^3/ 2^6, 3^6)$ will further add to our insight about the organization of text of Shakala Rigved as 64 chapters.
21. The artifice 85 (parallel to 85 anuwaks), with its organization as $8 \times 10 + 5$ will further add to our insight as to the fixation of the solid boundary of all the ten creative components of transcendental (5-space) domain within a five dimensional frame of five solid dimensions.
22. Further the chase of organization strings of ten mandals of 85 anuwaks as (24, 4, 5, 5, 6, 6, 6, 8, 7, 14) will add to our insight about the organization of Shakala Rigved Samhita
23. The transcendental (5-space) domain format of the organization, stat a way will help us comprehend as that right up till the placement of every letter of every syllable of every richa is going to be of specific location and values.
24. This being so organization format of Shakala Rigved Samhita deserve to be visited and revisited for its full comprehension and complete imbibing for through insight.

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

Tests

1. General features tests
2. About Arithmetic operations on first principles
3. About broad coverage domain of Ganita Sutras

4. About Ganita Sutra 5
5. About Ganita Sutra 6
6. About pure and applied values of Ganita Sutra 1
7. About text of Ganita Sutra 1 (GS1)
8. Word formulation specific about 'समुच्चय' samuccaye
9. Letters specifics

Test - 10

Formulation specific

Gunitah 'गुणित'

1. The formulation *Gunitah* 'गुणित' is availed more than once by the Ganita Sutras and Upsutras.
2. Ganita Sutra 15, Ganita upsutra 10 and Ganita Upsutra 13 specifically avails this formulation.
3. The formulation *Gunitah* 'गुणित' is being availed along with the formulation *Samuccaya* 'समुच्चय'.
4. It would be relevant to note that this pair of formulations namely (i) *Gunitah* 'गुणित' and (ii) *Samuccaya* 'समुच्चय' occur as 'गुणितसमुच्चयः' *Gunitasamuccayah* (sutra 15), and also as 'समुच्चयगुणितः' *Samuccayagunitah* (upsutra 10) and further simultaneously as 'गुणितसमुच्चयः समुच्चयगुणितः' *GunitaSamuccayah Samuccayagunitah* (upsutra 13).
5. The focus here in the present test is upon the formulation 'गुणित'.
6. This formulation leads to a pair of sub formulations namely (a) गुण् and (b) इतः
7. The formulation 'गुण्' accepts simple meaning rendering being 'feature' / properties.
8. The formulation 'इतः' accepts meanings rendering being 'to remove / removed'.
9. This as such leads to the simple rendering of meanings of formulations 'गुणित', being 'stripped off of features'.
10. One may pause a situation where the elements are equipped with 'features' / properties.
11. The state of such elements, with a removal of features / properties would make them of 'affine states'.
12. Therefore one of the applied value of formulation 'गुणित', would be to reach at 'affine state' for the elements by stripping off their features
13. Further the applied value of formulation 'गुणित', alongwith formulation 'समुच्चयः' would be that the set of features of element 's' to be classified as per

equal / same features (sub sets) of the set of total features being reached at in the process.

14. This as such would lead us to Mathematics, Science and technology of features of elements.
15. Elements (as affine state) super imposed with features (and the corresponding operations accepted by features, would make out features systems.

Tests

Q 1. Reach at the features systems

- (a) As per the working rule of Ganita Sutra 1
- (b) As per the working rule of Ganita Sutra 1 together with the working rule of Ganita Upsutra 1.
- (c) As per the working rule of Ganita Sutra 1 together with Ganita Sutra 1 and Ganita Sutra 2?
- (d) As per the working rule of Ganita Sutra 1 read with Ganita upsutra 1, Ganita Sutra 2 and Ganita Upsutra 2?
- (e) As per the working rule of Ganita Sutra 2?
- (f) As per the working rule of Ganita Sutra 2 read with Ganita Upsutra 2?
- (g) As per the working rule of Ganita Sutra 3?
- (h) As per the working rule of Ganita Sutra 3 read with Ganita Upsutra 3?
- (i) As per the working rule of Ganita Sutra 2 together with Ganita Upsutra 2, Ganita Sutra 3 and Ganita Upsutra 3?
- (j) As per the working rules of Ganita Sutras 1, 2 and 3 together with the working rules of Ganita Upsutras 1, 2 and 3?
- (k) As per the working rules of Ganita Sutra 4?
- (l) As per the working rules of Ganita Sutra 4 together with Ganita Upsutra 4?
- (m) As per the working rules of Ganita Sutras 2 & 3 and Ganita Upsutras 2, 3 & 4?
- (n) As per the working rules of Ganita Sutras 1, 2, 3 and 4 and working rules of Ganita Upsutras 1, 2, 3 & 4?

Q 2. Reach at the systems of Ganita Sutra 1 to 4 together with Ganita upsutras 1 to 4?

Q 3. Reach at the mathematical systems of Ganita Sutras 4, 5 and 6 together with Ganita Upsutra 4, 5 and 6?

Note:- One may illustrate the systems being reached at and to be worked out with the help of concrete illustration.