

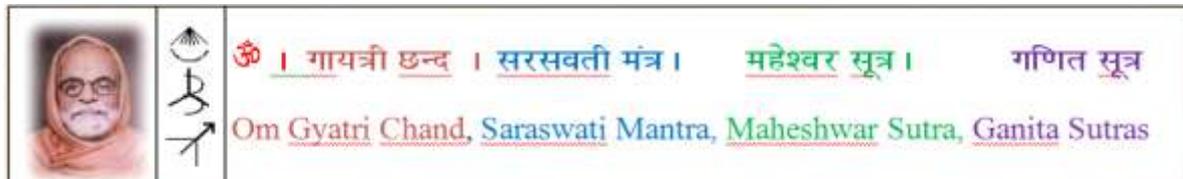
Sri – Om

VEDIC MATHEMATICS AWARENESS YEAR

E-Newsletter Issue no 283 dated 18-08-2015

For previous issues and further more information visit at www.vedicganita.org

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



VMS & T Awareness course

(Duration: 1-8-2015 to 30-09-2015)

10

VEDIC MATHEMATICS

VEDIC MATHEMATICS

1. Mathematics at the base of organization of whole range of *Vedic* knowledge as a single Discipline of knowledge is *Vedic Mathematics*.
2. *Vedic Mathematics* preceded organization of *Vedas* as *Samhitas*. And, in the process the whole range of Disciplines of knowledge stood transformed and got merged their identities within *Samhitas*.
3. *Vedic Mathematics* remained no more any exception. In this way, Mathematics as well stood merged into *Samhitas* in a transformed form and acquired status of 'Vedic Mathematics'.
4. Such organization of knowledge as *Vedic Samhitas*, as such because of unified feature, that way made 'knowledge' and 'organization of knowledge' running parallel to each other.
5. This takes us to a 'structural key' as that the unfolding process of *Vedic* scriptures is to be of the feature that knowledge of the given scripture is to be approached in terms of organization of the scripture.
6. And, on the other hand, the organization format features of the *Vedic* scripture are to be approached in terms of knowledge of the scripture.
7. This takes us to two fold established processing processes designated as *Sankhiya Nishtha* and *Yoga Nishtha*.
8. *Sankhiya Nishtha* and *Yoga Nishtha* are complementary and supplementary of each other. Further, at the same time these run parallel to each other.
9. *Sankhiya Nishtha* presumes the existence of geometric formats and works out artifices of numbers along geometric format.
10. On the other hand, *Yoga Nishtha* presumes the existence of artifices of numbers and works out dimensional spaces parallel to artifices of numbers.
11. With it 'numbers and artifices of numbers' on the one hand and 'dimensional spaces and dimensional

- frames' on the other hand become the basic *Vedic* Mathematical tools.
12. *Vedic* Mathematical tools settle features of *Vedic* Systems for chase of the Universe.
 13. The chase format, that way runs parallel to *Sathapatya* measuring rod.
 14. *Sathapatya* measuring rod is presided by Lord Vishnu.
 15. The measure of this measuring rod is presided by Lord *Brahma*, four head lord, creator the supreme.
 16. Measuring rod settles the flow path of transcendence for sunlight through core of the Sun.
 17. This *Jyoti* flow path is presided by Lord *Shiv*, the transcendental lord.
 18. With it, the manifestation and dissolution of *Triloki* (Vishva / this world as manifested domain) is sustained and regulated by *Trimurti* (Lord Vishnu, lord *Shiv* and Lord *Brahma*).
 19. Therefore *Vedic* Mathematics values run parallel to this *Vedic* technology of Existence Phenomenon of our solar universe.
- becomes the basic order of *Vedic* Mathematics.
25. This takes us from spatial order to 2-space to square to hyper cube 2 to water as the second element.
 26. Accordingly, *Vedic* basis of *Ganita Sutras* is to be chased to evaluate the extent as to its order being parallel to the order of *Rigved Samhita*.
 27. *Shakla Rigved Samhita* is a scripture of the range of 10 *mandals* / 8 *ashtaks* / 64 chapters / 85 *anuvaks* / 1028 *suktas* / 2024 *vargas*.
 28. *Ganita Sutras* text accepts 'vargam' as formulation of the part of the text of *Ganita UpSutra* 7.
 29. Infact, except 'Vargam' no other geometric (format) formulation is accepted as part of the text of *Ganita Sutras* (and *Ganita UpSutras*).
 30. With it, the precise test of *Vedic* basis of *Ganita Sutras* text comes to be as to how the organization of *Ganita Sutras* is parallel to the features of 2024 *vargas* organization range of *Shakla Rigved Samhita*, the source *Vedic* scripture.

Shakla Rigved Samhita

20. *Shakla Rigved Samhita* is the source *Vedic* scripture.
21. *Ganita Sutras* text is the text of *Vedic* Mathematics in terms of which the settlement of the organization format of this *samhita* can be chased.
22. The paramount feature of 'knowledge and organization format of this *samhita*', is of the order of solar universe.
23. Solar universe is being approached at its dimension of dimension level which is parallel to spatial order.
24. With it, the spatial order (2-space in the role of dimension of 4-space and dimension of dimension of 6-space)

Text of Ganita Sutras

31. Title of the text of *Ganita Sutras* is 'गणित सूत्राणि:'.
32. Text is of two parts, namely *Sutras* and *UpSutras*.
33. There are 16 *Sutras* and 13 *UpSutras*.
34. Text avails 36 letters of the *Devnagri* alphabet which is parallel too TCV (प्रणवः) = 36.
35. First letter of the text of *Ganita Sutras* is 'ए' (sixth vowel) of TCV value 6.
36. Artifices pair (16, 13) is parallel to TCV values pair of formulations (ॐ) and (सूर्य)
37. Artifice value 29 is parallel to 29 *archiks* of *Samved Samhita*.
38. It is also parallel to 29 *shalokas* range of 5th chapter of *Srimad Bhagwad Geeta*.

39. Further it is also parallel to 29 *shalokas Ardh Shalokas* and *Uvachas* of the last / 13th chapter of *Srimad Durga Saptsati*.
40. The range (1, 2, 3, 4, 5, 6) gives rise to $2^5 = 32$ arrangements of value 6.
41. It would be relevant to note that manifestation layer beginning with artifice 29 takes up till artifice 32 as 4 steps layer long range (29, 30, 31, 32)
42. Text of *Ganita Sutras* has 8 bracketed letters (आनुरुष्ये) of text of *Ganita Sutra* 6.
43. Text of *Ganita UpSutras* has 1 unmanifest letter (namely first vowel) in the text of *Ganita UpSutra* 8.
44. There are 520 (including 1 unmanifest letter) letters of the text of *Ganita Sutras* and *UpSutras*.
The letters range $520 - 8 = 512 = 2^9$ which is parallel to total 2^9 arrangements of value 10 for the range (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
45. The range (1, 2, 3, 4, 5, 6, 7, 8, 9, 10) precisely works out 29 arrangements of values 10 each.

S-4	17	76	76	51	288	288
S-5	20	96	96	71	359	359
S-6	19	115	115	66	425	425
S-7	24	139	139	91	516	516
S-8	16	155	155	68	584	584
S-9	16	171	171	59	643	643
s-10	9	180	180	41	684	684
S-11	14	194	194	58	742	742
S-12	20	214	214	79	821	821
S-13	20	234	234	80	901	901
14	17	251	251	84	985	985
S-15	16	267	267	56	1041	1041
16	16	283	283	55	1096	1096
U-1	10	10	293	42	42	1138
U-2	18	28	311	74	116	1212
U-3	23	51	334	96	212	1308
U-4	21	72	355	92	304	1400
U-5	08	80	363	41	345	1441
U-6	18	98	381	85	430	1526
U-7	37	135	418	143	573	1669
U-8	16	151	434	52	625	1721
U-9	11	162	445	40	665	1761
U-10	16	178	461	56	721	1817
U-11	17	195	478	73	794	1890
U-12	09	204	487	44	838	1934
U-13	32	236	519	112	950	2046

Transcendental code values range

46. Sequential tabulation of 16 *Ganita Sutras* and 13 *Ganita UpSutras* for their letters and transcendental code values ranges comes to be as under :

Table of Transcendental organization features of *Ganita Sutras* and *Ganita UpSutras*

S/U= *Sutra* / *UpSutra*, L = Letters, T = Total letters, GT=Grand total letters, TCV = Transcendental code value, T TCV = Transcendental code value, GT TCV = Grand total Transcendental code value

S/U	L	T	GT	TCV	T TCV	GT TCV
S-1	16	16	16	74	74	74
S-2	28	44	44	107	181	181
S-3	15	59	59	56	239	239

TCV values range

47. TCV values range '2046' with its organization as $2024 + 16 + 6$ shall be taking us to 2024 *vargas* range + TCV (ॐ) + TCV (ए)
48. One may have a pause here and permit the transcending mind to continuously remain in prolonged sitting of trans and blissfully be face to face with the transcendental feature of organization of *Ganita Sutras* and *Ganita UpSutras* as being of a cyclic order, as much as that the attainment of coverage of total range of *Shakla Rigved Samhita* as of 2024 *vargas* range, there has been fresh cyclic initiation for the *Vedic Mathematics* systems coming into play 'ॐ, ए-----'

Transcendental code values range and 1028 *suktas* range

49. Transcendental code values range of *Ganita Sutras* text (16 *Ganita Sutras* text) comes to be of value '1096'.
50. One may have a pause here and take note that the text of *Ganita Sutra* 6 is having 8 bracketed letters text 'आनुरूये' with TCV (आनुरूये) = 34
51. Further as that the text of *Ganita Sutra* 8 accepts formulation 'पूर्ण' as 'पूरण'.
52. This enhanced TCV value '2' units is parallel to the transition from artifices of numbers to numbers themselves as parallel to a transition from dimension fold to domain fold.
53. Accordingly transcendental code values range 1096 after accounting for 34 units for bracketed letters of *Ganita Sutra* 6 and 2 units for enhanced value for the formulation 'पूर्ण' as 'पूरण' and further after accounting for 32 arrangements of range '1, 2, 3, 4, 5, 6' as value 6, shall be reaching at value range 1028 which is parallel to 1028 *suktas* range of the *Shakla Rigved Samhita*.
54. One may have a pause here and permit the transcending mind to continuously remain in prolonged sitting of trans to be face to face with these organizational features and to acquire insight about the *Vedic* basis of *Ganita Sutras* Mathematics as the *Vedic* systems basis Mathematics.

Ten Mandal organization

55. TCV (मण्डल) = 9 + 1 + 7 + 5 + 1 + 5 + 1 = 29, which is parallel to the organization feature of *Ganita Sutras* and *UpSutras* being precisely 29 in number.
56. *Shakla Rigved Samhita* is of the range of ten *mandals*.
57. The artifices range (1, 2, 3, 4, 5, 6, 7, 8, 9, 10) yields 2^9 parallel to 512 expressed

letters of the text of *Ganita Sutras* and *UpSutras* (other than 8 bracketed letters of *Ganita Sutra* 6 and 1 unmanifest letter of *Ganita UpSutra* 8.

8 *Ashtaks* and artifice 8

58. *Shakla Rigved Samhita* is the organization of the range of 8 *ashtaks*.
59. TCV (एक) = 8
60. There are precisely 8 bracketed letters as part of the text of *Ganita Sutra* 6.
61. Surface format is sustainable in terms of 8 directional frame
62. 3-space splits as 8 octants.
63. Solid boundary of hyper cube 4 is a synthetic set up of 8 solid components.
64. One may have a pause here and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse the features of 8 fold nature as organization format for *Brahman* domain.
65. One may further have a pause here and be face to face with the features of artifices pair (8, 9) which permits re-organization as (2^3 , 3^2) as a format of vertical reflection pair as here base and index swap their places.

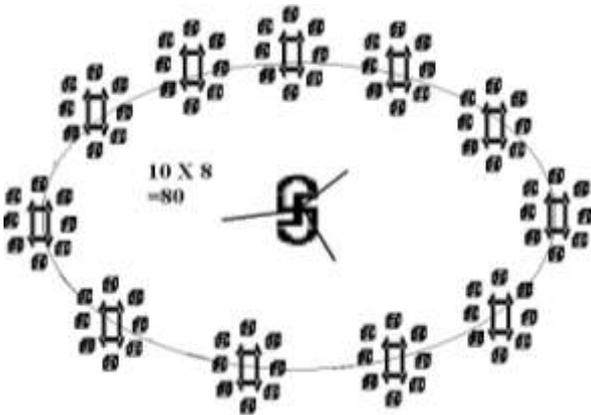
64 chapters organization

66. (ऋ ब्रह्म) First pair of letters (ए, क्) and parallel format beneath of 6-space as domain fold, 4-space as dimension fold leads us to the parallel format of artifice 64.

85 *Anuvaks* range

67. 5-space as domain fold accepts creative 4-space boundary of ten components, while 4-space itself accepts solid boundary of 8 components and thereby it would require $8 \times 10 = 80$ solids / cubes to fully envelope the entire creative

boundary of transcendental (5-space) domain.



One may have a pause here and take note that the transcendental (5-space) domain which accepts external geometric envelope of the set up of 80 solids, the same also accepts internal dimensional frame of five solid dimensions and thereby making out fully framed transcendental (5-space) domain in terms of 85 solids

1028 Suktas organization

68. Value 1028 = 1096 as TCV value of the text of 16 *Ganita Sutras* – 34 as value of 8 bracketed letters of text of *Ganita Sutra* 6 - 2 as difference of domain fold and dimensional fold – 32 as 32 arrangement for value 6 of the range (1, 2, 3, 4, 5, 6).

2024 vargas range

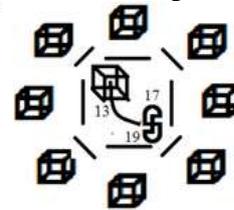
69. Value 2024 = 1046 TCV value of the text of *Ganita Sutras* and *UpSutras* – summation value of four folds (4, 5, 6, 7) of hyper cube 6 format.

432000 syllables range

70. The working rules of *Ganita Sutras* come into play to chase the organization of

432000 syllables organized as 10552 *richas* with each *richa* having its specific *rishi*, *Devta*, *chandas* and *Swara*. This is the real applications range of *Ganita Sutras* which make it *Vedic Ganita Sutras*.

71. The title गणित सूत्राणि: is of TCV (गणित सूत्राणि:) = 56 which accepts re-organization as $56 = 28 + 28$, which is parallel to the format of pairing of *Braham* with itself as (ब्रह्म, ब्रह्म).
72. One may have a pause here and take note that artifices pair (6, 28) is perfect numbers pair (6 as first perfect number and 28 as second perfect number).
73. Beginning with first perfect number (6) and reach uptill second perfect number (28), is in a way a reach from 3 proper divisors of first perfect number (6) to 5 proper divisors of second perfect number (28).
74. This way artifices pair (3, 5) is a reach parallel to the format (3-space as dimension, 5-space as domain).
75. Artifices pair (3, 5) is also parallel to grid / matrix format of three rows and five columns accommodating double digit numbers of four place value system.
76. Further, it leads to a chase format of solid order within creator space (4-space) with transcendental (5-space as origin).



77. It leads to the foundation format of *Vedic Systems* permitting symbolic expression as of the degree of freedom of motion of 12 edged cube manifesting as its 13th edge leading to coordination with the transcendental origin of creator space (4-space) which is of a spatial order and thereby there being a split at the origin as

- northern hemisphere of placement value 17 and southern hemisphere of placement value 19:
78. This coordination format with end values (13, 19) within spatial order space for transcendental origin (5-space) of hyper cube 5 format with creative boundary of ten components making out a format for ten place value system and thereby the value $10 \times 10 = 100$ as the coordination value making out artifice value (1319).
79. Further here, it would be relevant to note that $8 \times 1319 = 10552$.
80. One may have a pause here and take note that the artifice value 10552 is parallel to the organization of 10552 *richas* of *Shakla Rigved Samhita*.
81. Further here it also would be relevant to note that the super-imposition of solid order upon transcendental (5-space) domain shall be leading us to super-imposed set up of value $(3 + 5) + (3 \times 5) = 23 = \text{TCV (सहस्र)}$. The simple English rendering for 'सहस्र' is thousand.
82. As such the chase at next place value, i.e. at place value 103 value shall be leading to sequential four steps value within creator space (4-space) to be of the value '432000', which is parallel to the range of 432000 syllables of *Shakla Rigved Samhita*.
- Rishi, Devta, Chandas and Swara formats**
83. The further chase of the organization of *Shakla Rigved Samhita*, as such is to be in terms of the features of 'Rishi, Devta, Chandas and Swara formats'.
84. These four folds formulations 'ऋषि / Rishi, देवता / Devta, छन्द / Chandas and स्वर / Swara formats' deserve to be chased for their transcendental code values comes to be.
TCV (ऋषि) = 12,
TCV (देवता) = 26,
TCV (छन्द) = 22,
TCV (स्वर) = 15
85. This set of quadruple values (12, 26, 22, 15) as such shall be leading to their parallel formats as that
- Hyper cube 6 is enveloped within a transcendental boundary of 12 components
 - Transcendental order manifestation layer (5, 6, 7, 8) is of summation value 26
 - Creative order manifestation layer (4, 5, 6, 7) is of summation value $4 + 5 + 6 + 7 = 22$
 - Solid order transcendental frame is of value $1 \times 3 \times 5 = 15$
86. This, that way leads us to the four fold manifestation layers formats of hyper cubes being the sequential manifested dimensional bodies of which hyper cubes 1 to 6 synthesize *Sathapatya* measuring rod, whose chase is to be initiated in terms of the working rule of 'one more than before' of *Ganita Sutra* 1.
87. The chase so initiated will help us comprehend and appreciate the sequential TCV values organization formats of text of *Ganita Sutras*.
88. The sequential organization format of TCV values of first *Ganita Sutra* comes to be: (6, 4, 2, 7, 2, 4, 6, 8, 1, 5, 6, 2, 7, 6, 7, 1) with summation value 74.
89. One may have a pause here and take note that the text of *Ganita Sutras* 1 to 16 can be sequentially chased in terms of the formats of artifices of TCV values of 16 letters of the text of *Ganita Sutra* 1.
90. For pure and applied values of *Ganita Sutras* and *UpSutras*, we may follow the sequential organizations of texts of *Ganita Sutras* availing the parallel structural features of hyper cube 6 as TCV values range (6, 4, 2, 7, 2, 4, 6, 8, 1, 5, 6, 2, 7, 6, 7, 1)

91. It would be a blissful exercise to be face to face with emerging domain of transcendental domain of pure and applied values of गणित सूत्राणि: / Vedic Mathematics *Sutras*.

Polygons format

92. One way to chase values of *Ganita Sutras* is along polygons format. The spatial order at dimension of dimension level of 6-space shall be leading us to hexagon format.
93. As 4-space plays the role of dimension of 6-space, as such a set of four hexagons would be required to net the origin as center of the pentagon.
94. The organization of 16 *Sutras* and 13 *UpSutras* as a set of four hexagons and one pentagon will lead us to TCV values of *Ganita Sutras* 1 to 3 and of *Ganita UpSutras* 1 to 3 to be the values for vertices of first hexagon.
95. Likewise values of *Ganita Sutras* 4 to 6 and of *Ganita UpSutras* 4 to 6 to be the values for the vertices of second hexagon.
96. Values for third hexagon would be the values of *Ganita Sutras* 7 to 9 and of *Ganita UpSutras* 7 to 9.
97. Values of fourth hexagon would be the values of *Ganita Sutras* 10 to 12 and of *Ganita UpSutras* 10 to 12.
98. Finally, the values of *Ganita Sutras* 13 to 16 and of *Ganita UpSutra* 13 would be the values of vertices of pentagon.
99. This as such shall be leading us to values range (449, 406, 454, 351, 387) with summation value 2046 standing

embedded as values 360 at each of the five vertices of the pentagon and remaining value 246 at center of the pentagon.

100. One may have a pause here and take note that artifice 246 avails triple digits (6, 4, 2) which is parallel to the format of (6-space as domain, 4-space as dimension and 2-space as dimension of dimension).
101. It would further be relevant to note that the triple digits (6, 4, 2), with summation value $6 + 4 + 2 = 12$ is parallel to TCV values of triple letters of the formulation (ऋषि), i.e. (i) ऋ (ii) ष (iii) इ ,
102. Still further it would be relevant to note that $6 \times 4 \times 2 = 48$ is the value parallel to the dimensional order of 6-space and like that further chase will further enlighten us about mathematical domain of *Ganita Sutras*. ■