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 76

Vedic mathematics, Science & Technology
UNIVERSITY CONCEPT

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XII   21 Branches of Rigved Samhita
[(Source Theme)   **Organization format of Sakala Rigved Samhita**

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XIII
Features of organization of 64 chapters of Rigved Samhita
[(Source Theme)   **64 sub sub cubes of 8 sub cubes of cube**

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XIV Shastra Shirsha (one thousand heads)
[(Source Theme)   **One thousand branches of Samved**

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XV   Format of Single wholesome Ved
[(Source Theme)   **Wisdom is Yajna based**

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XVI   28 Vyas (Diameters)
[(Source Theme)   **Ved Vyas (Diameter of Vedic sphere)**

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1. To reach at the organization format of Veda, the basic formulation is 'Ved Vyas.
2. TCV (वेद व्यास) = 34 = 7 + 8 + 9 + 10.
3. The quadruple artifices 7 + 8 + 9 + 10 are parallel to four fold manifestation layer (7, 8, 9, 10) of hyper cube.

4. The dimensional order of hyper cube 9 is unity state (7-space in the role of dimension).

5. TCV (व्यास) = 14 = 2 + 3 + 4 + 5.

6. The quadruple artifices (3, 4, 5) is parallel to four fold manifestation layer (2, 3, 4, 5) of hyper cube 4.

7. Hyper cube 4 is of a spatial dimensional order (2-space in the role of dimension).

8. As such the hyper sphere with diameter of value double than that of another hyper sphere shall be settling the sequential cyclic features of organization formats of self referral (6-space) systems of creative order (4-space)

9. With it artifice value (2 x 14) = 28 deserve to be comprehended fully.

10. TCV (वेद) = 20 = 10 + 10 = (1 + 2 + 3 + 4) + (1 + 2 + 3 + 4), as such is of value double than that of the summation value of four fold manifestation layer (1, 2, 3, 4) of hyper cube 3.

11. Here it would be relevant to note that 6 = (0 + 1 + 2 + 3) is parallel to the organization format of four fold manifestation layer (0, 1, 2, 3) of hyper cube 2.

12. Artifice 10 = 1 + 2 + 3+ 4 is parallel to summation value of four fold manifestation layer (1, 2, 3, 4) of hyper cube 3.

13. The artifice value 14 = 2 + 3 + 4 + 5 is parallel to summation value of four fold manifestation layer (2, 3, 4, 5) of hyper cube 4.

14. Vedic Systems settle and workout 28 Vyas / diameters.

15. Here it also would be relevant to note that (0, 6, 28, 496) are the first four perfect numbers as that sums of their upper divisors are equal to the value of these numbers .

16. The quadruple primes (0, 3, 7, 31) settle the organization format and features ranges of quadruple perfect numbers (0, 6, 28, 496).

17. Here it also would be relevant to note that number of proper factors of quadruple perfect numbers (0, 6, 28, 496) are respectively (0, 3, 5, 9).

18. Here it also would be relevant to note that
    (i)   TCV (क्रम) = 13
    (ii)   TCV (कर्म) = 14
    (iii)   TCV (करम) = 16
    (iv)   TCV (आरोही) = 23

    Which gives sequential increase reach from 1 to 23.

(v)   TCV (अवरोही) = 30 which gives sequential decrease reach from 30 = 6 + 7 + 8 + 9 / (6, 7, 8, 9) / hyper cube 8 with dimensional order (6-space) to 26 = 5 +6 + 7 + 8 / (5, 6, 7, 8) / hyper cube 7 with dimensional order (5-space) in the role of dimension.

(vi)   Here it also would be relevant to note that 23, 24, 25, 26 is a reach which fulfills the gap between artifices 23 and 24.

19. It would further be relevant to note that artifices pair (26, 28) is parallel to the format of (dimension fold, domain fold).

20. Vedic Systems settle formulations for 28 Vyas (diameters) as under.

क्रम सं	व्यास का नाम		ज्योतितेज अंक
1	श्वेत	श् वृ ए त् अ २ ७ ६ ४ १	20
2	सद्य	स् अ द् य् अ ३ १ ६ १ १	12
3	भार्गव	भ् आ ॑ ग् अ व् अ ८ २ २ ३ १ ७ १	23
4	अंगिरा	अ : ग् इ र् आ १ ६ ३ २ ३ २	20
5	सविता	स् अ व् इ त् आ ३ १ ७ २ ४ २	19
6	मृत्यु	म् ऋ त् य् उ ६ ४ ४ १ ३	21
7	शतक्रतु	श् अ त् अ क् ॒ अ त् उ २ १ ४ १ १ १ १ ४ ३	20
8	वसिष्ठ	व् अ स् इ ष् ठ् अ ७ १ ३ २ ६ ४ १	24
9	सारस्वत	स् आ र् अ स् व् अ त् अ ३ २ ३ १ ३ ७ १ ४ १	25
10	त्रिपाद्	त् ॒ इ प् आ द् ४ १ २ ५ २ ६	20
11	त्रिव्रत	त् ॒ इ व् ॒ अ त् अ ४ १ २ ७ १ १ ४ १	21
12	शततेजा	श् अ त् अ त् ए ज् आ २ १ ४ १ ४ ६ ४ २	24
13	नारायण	न् आ र् आ य् अ ण् अ ८ २ ३ २ १ १ ७ १	25
14	तरक्षु	त् अ र् अ क् ष् उ ४ १ ३ १ १ ६ ३	19
15	त्रैय्यारूणि	त् ॒ ऐ य् य् आ र् उ ण् इ ४ १ ८ १ १ २ ३ ६ ७ २	36
17	देव	द् ए व् अ ६ ६ ७ १	20

17	देवकृतंजय	द् ए व् अ क् ऋ॒ त् अ : ज् अ य् अ ६ ६ ७ १ १ ४ ४ ९ ६ ४ १ १	46
18	ऋतंजय	ऋ॒ त् अ : ज् अ य् अ ४ ४ १ ६ ४ १ ९ १	25
19	भरद्धाज	भ् अ र् अ द् व् आ ज् अ ८ १ ३ ९ ६ ७ २ ४ १	33
20	गौतम	ग् औ त् अ म् अ ३ ६ ४ १ ६ १	27
21	वाचश्रवा	व् आ च् अ श्र ॒ अ व् आ ७ २ २ १ २ १ १ ७ २	25
22	शुष्मायण	श् उ ष् म् आ य् अ ण् अ २ ३ ६ ६ २ १ १ ७ १	32
23	तृणबिन्दु	त् ऋ ण् अ ब् इ न् द् उ ४ ४ ७ १ ७ २ ८ ६ ३	42
24	ऋक्ष	ऋ क् ष् अ ४ १ ६ १	12
25	शक्ति	श् अ क् त् इ २ १ १ ४ २	10
26	पराशर	प् अ र् आ श् अ र् अ ५ १ ३ २ २ १ ३ १	18
27	जातूकर्ण्य	ज् आ त् उ क् अ ण् ॑ य् अ ४ २ ४ ६ १ १ ७ २ १ १	29
28	कृष्णद्वैपायन	क् ऋ ष् ण् अ द् व् ऐ प् आ य् अ न् अ १ ४ ६ ७ १ ६ ७ ८ ५ २ १ १ ८ १	58

21. The range of TCV values of 28 Vyas names (formulations) is of values (10, 12, 17, 18, 19, 20, 21, 23, 24, 25, 26, 33, 35, 36, 42, 46, 58).

22. This range of 17 steps is parallel to seventeen as the value of northern hemisphere. The balance range of 11 steps are of repetitive form and the value 11 is parallel to 11 versions of hyper cube 5 / 11 geometries range of 5-space.

23. Here it would be relevant to note that 11 = 2 x 5 +1 and 17 = 2 x 8 + 1.

24. The artifices pair (11, 17) and artifices pair (5, 8) with 8 = 3 + 5 with artifices pair (3, 5) being of the format (dimension fold, domain fold) will further help us reach at values and virtues of 28 vyas (diameters).

25. Here it would further be relevant to note that the modern mathematical systems are held up that hyper circles 1 to 7.

26. VMS & T University, as such shall be chasing values formats of 28 vyas to enrich our Existence Phenomenon.

27.In this background is humble submission with the sadkhas as that there chase is to be of values steps as under for a reach parallel to Vedic Systems:

i.   Vedas are written on rays of Sun.

ii.   Devnagri alphabet is manifested from of Devnagri alphabet

iii.   Manifested creations permit transcendence for reach at base of origin fold.

iv.   Transcendental (5-space) base has a self referral (6-space).

v.   Self referral (6-space) format is sustained by unity state of consciousness.

vi.   Unity state of consciousness remains lively and vibrant within Asht Prakrati.

vii.   Asht Prakrati is the creation of Nav Braham.

viii.   Nav Braham of its own transit and transform into Par Braham.

ix.   Within Par Braham is the virtue of Rudra, the incarnation of transcendental (5-space) lord Shiv.

x.   The transcendental (5-space) lord Shiv, within *Go-lok* is all pervading Lord Vishnu.

xi.   Lord Vishnu and Lord Shiv are the Braham Jyoti and Anahat Nad unifying as Universal mother (Goddess Parvati)

xii.   Be grateful the Universal Mother and go the shelter of Vedas for enlightenment.

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04-01-2015   Dr. S. K. Kapoor, *(Ved Ratan)*

VMS & T Project
School Text Books
(Class IX, X, XI & XII)
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VMS & T Text Book Class XII
(6-space)

Introductory

VMS & T Text Book Class XII
(6-space)

Chapter – 3
6, 6 x 6 and 6 x 6 x 6

1. One way to reach at the values of six space is to approach it along artifices of numbers of formats (6, 6 x 6, 6 x 6 x 6).
2. Artifice 6 accepts re-organization as $6 = 1 + 2 + 3 = 1 \times 2 \times 3 = 2 + 2 + 2 = 3 + 3 = (-2) \times (-3)$.
3. Artifice 6 further permit re-organization as $6 = 0 + 1 + 2 + 3$ which is parallel to four fold manifestation layer (0, 1, 2, 3) of hyper cube 2.
4. Artifice 6 is also parallel to the set of 6 half dimensions of a three dimensional frame.
5. The organization format 6 x 6 is parallel to grid / matrix format (6 x 6) of 36 grid zones / matrix values set up of six rows and six columns
6. The format 6 x 6 permits organization as under:

1	2	3	4	5	6
2	3	4	5	6	7
3	4	5	6	7	8
4	5	6	7	8	9
5	6	7	8	9	10
6	7	8	9	10	11

7. The row wise summation value of above organization comes to be (21, 27, 33, 39, 45, 51 with total summation value $21 + 27 + 33 + 39 + 45 + 51 = 216 = 6^3$.
8. First row (1, 2, 3, 4, 5, 6) is of self referral (6-space) six values range parallel to measuring rod of 6-space synthesized as hyper cubes (1, 2, 3, 4, 5, 6).
9. The dimensional orders (1, 2, 3, 4, 5, 6) shall be leading to boundary folds of hyper cubes 2, 3, 4, 5, 6, 7 which would be parallel to the second row of above 6 x 6 organization format, a step ahead the hyper cubes (1, 2, 3, 4, 5, 6) and hyper cubes (2, 3, 4, 5, 6, 7) shall be leading to hyper cubes (3, 4, 5, 6, 7, 8) parallel to third row of above 6 x 6 organization format as of domain folds set ups for the previous formats of boundary fold dimensional folds.

10. Likewise 4th, 5th and 6th row of above 6 x 6 organization formats shall be leading to origin folds range, base folds range and base formats ranges.

11. Let us have a pause here and take note that the first row range (1, 2, 3, 4, 5, 6) and parallel to it measuring rod of dimension fold formats permitting chase along 1 of the 6 dimensions of 6-space.

12. Therefore all the six dimensions of 6-space shall be leading to the total value 6 (1 + 2 + 3 + 4 + 5 + 6) = 6 x 21 = 126

13. One may have a pause here and take note that this value (126) is parallel to the organization of 126 chapters of all the 6 Ansh of Vishnu Puran.

14. Likewise the chase of values of second, third, fourth, fifth and sixth rows of 6 x 6 format shall be leading us to values 6 x 27, 6 x 33 and 6 x 39, 6 x 48, 6 x 51.

15. The chase along these formats would be enriching us further about the pure and applied values of VMS & T of 6-space.

16. One may further have a pause here and the above organization along 6 x 6 format coordinates 11 steps long range of values (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11) which is parallel to 11 geometries range of 5-space / 11 versions of hyper cube 5.

17. Further as that 11 steps long organization as (1, 2, 3, 4, 5, 6, 5, 4, 3, 2, 1) is of summation value 6^2.

18. This organization format is parallel to artifices triple (5, 6, 5) for 6-space in the role of dimension of 5-space.

19. Here it would be relevant to note that artifices 16 is parallel to 16 Kala of 6-space.

20. The chase of 2^3 as a set up of 8 cubes shall be leading us to 5^3 structural components.

21. The chase of $3^3=27$ as a set up of 27 cubes shall be leading us to 7^3 structural components.

22. Likewise $4^3 = 64$ as 64 cubes shall be leading us to 9^3 structural components

23. $5^3 =125$ cubes shall be leading us to 11^3 structural components

24. And $6^3 = 216$ cubes shall be leading us to 13^3 structural components.

25. It would be relevant to note that the above organization of n^3 cubes shall be leading us to $(2n + 1)^3$ structural components for all values of n = 1, 2, 3, 4, 5, 6, 7.

26. Further it also would be relevant to note that the organization of values 1 to 11 along 6 x 6 format shall be leading to the total summation value 6^3.

27. In general the organization of range 1 to (2n +1) along (n+1) x (n+1) format shall be leading to $(n+1)^3$ for n=1, 2, 3, 4, 5, 6, 7, 8,---- .

28. The above features of 6, 6 x 6 = 36, 6 x 6 x 6 =216 deserve to be chased as per the above formats of linear, spatial and solid formats.

29. The above chase along artifices of numbers for hyper cubes formats measuring rods is waking the chase of higher dimensional set ups very easy and of very gentle steps.

30. The above parallel formats of artifices of numbers and higher dimensional setups are simultaneously emerging from the rules of Ganita Sutras, particularly from the rule of Ganita Sutra 1, which is the source sutra.

31. The working rule of Ganita Sutra 1 namely 'one more than before' while settles number sequential range organization as (1, 2, 3, 4, 5, 6, -----). The same,

simultaneously as such, inherently settles this organization being of the sequential value set up 2^0, 2^1, 2^2, 2^3, ---.

32. Here it would be relevant to note that '1' as single step range '1' as only one setup 1 = 1. However number '2' as of a pair of steps range (1, 2), leads to a pair of set ups for value 2 namely 2 = 2 and 2 = 1 + 1 and step ahead number 3 as three steps range (1, 2, 3) leads to 4 values set ups for 3 namely 3 = 3, 3 = 1 + 2 and 3 = 2 +1 and 3 = 1 + 1 + 1.

33. Likewise number 4 as of 4 steps range (1, 2, 3, 4) shall be having 8 arrangements for value 4. And this sequential feature continuously follows and binds the set ups of numbers ahead namely (5, 6, 7, 8, --).

34. The other result which immediately follows with application of the rule of Ganita Sutra 1 as that parallel to numbers (0, 1, 2, 3, --(is the set up of (0-space body) point (1-space body), line/ interval, 2-space body surface / square and so on.

35. Let us start with a zero space body (point / value 0).

36. Moving point settles a 1-space track / line / interval format.

37. The point, in dynamic state step, when stops becomes the second point.

38. The pair of points as zero space bodies in dynamic state are in the role of dimensional order and pair of 0 dimensional order axes synthesized value 2 / 2-space set up .

39. With it the point in static state as zero state body, while in dynamic state settles the track of 1-space format and at the end settles 2-space format.

40. A step ahead 2-space when transits from its static state to dynamic state the same settles the track as of 3-space format and at the end as another 2-space format in static state and the pair of spatial order (2-space in the role of dimension, synthesized value 4 / 4-space format).

41. The parallel emerging 1-space static format, likewise sequentially takes to synthetic value 3 / 3-space format and ahead as 5-space format with intervening tracks of 2-space and 4-space respectively.

42. With it the parallel set up of 0-space, 1-space, 2-space, 3-space , 4-space and 5-space and so on format organization to the artifices format of values 1, 2, 3, 4, 5, ---- comes into existence and play.

43. The another feature worth chase would be of simultaneous play of the rule of Ganita Sutra 1 'one more than before' and that of first Ganita Upsutra rule 'proportionally / symmetry / following the form as it is'.

44. Ganita Sutra 1 is a set up of 16 letters with first letter being the sixth vowel and hence value 6 / 6-space / hyper cube 6.

45. It would be leading us to the sequential format (6, 12, 18, 24, 30, ----) with value 6 being parallel to 6-space / hyper cube 6, value 12 being parallel to 12 boundary components of hyper cube 6, value 18 being parallel to the summation value 3+ 4+ 5+ 6 of four fold manifestation layers with 6-space in the role of origin. A still further the value 6 x 4 is parallel to the 6-space dimensional frames of 6 dimensions of creative order (4-space in the role of dimension), and so on.

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News, Views and Information

Sh. Rakesh Bhatia, Vedic Mathematics teacher, has been dedicated to the cause of Vedic Mathematics awareness, to his credit goes the following chain of seminars and workshops conduced by him in various educational institutions. Here is the table of his seminar and workshops of Vedic Mathematics conducted by him.

वर्ष	तिथि	वैदिक गणित प्रशिक्षण कार्यक्रम
1996	26-27-28 Dec	शिक्षा भारती स्कूल, राम नगर रोहतक प्रशिक्षण हरियाणा प्रान्त
1997	28-29-30 Dec	शिक्षा भारती स्कूल, राम नगर रोहतक प्रशिक्षण हरियाणा प्रान्त
1998	2-3-4 Oct	शिक्षा भारती स्कूल, राम नगर रोहतक प्रशिक्षण हरियाणा प्रान्त
1999	22-May – 17 Jun	गीता निकेतन सरंस्कृति भवन कुरूक्षेत्र
2004	26-27-28 Nov	गोपाल विदया मन्दिर हरियाणा प्रान्त
2007	17-18-19-20 Mar	मेजर नितिन बाली विदयामदिर सुन्दरपुर कुरूक्षेत्र हरियाणा प्रान्त
2007	21-22-23 Aug	श्रीमज्जजगतगुरू शंकराचार्य गोर्वधन पीठ पुरी
2009	21-22 May	विवेकानन्द वरिष्ट माध्यमिक विदयालय करनाल
2010	9-10-11 Mar	सर्वहितकारी सरसवती विदया मन्दिर धुरी पंजाब प्रान्त
2010	31-Jul	सरसवती विदया मन्दिर गउशाला नगर वृंदावन
2010	13-14 Nov	शिक्षा भारती स्कूल, गोहाना रोड रोहतक, जिला रोहतक
2011	4-5 Feb	हिन्दू शिक्षा समिति समर्थ शिक्षा समिति दिल्ली
2011	28-Apr	पंजाब टेक्निकल युनिवरसिटी पंजाब प्रान्त
2011	28-May	शहीद अशोक वढेरा सरसवती विदया मदिर डबवाली, जिला डबवाली
2011	9-10-11-12 Jun	उतर क्षेत्र ;पंजाब, हरियाणा, दिल्ली, जम्मू, हिमाचल, प्रशिक्षण वर्ग गोहाना रोड रोहतक
2011	29-30-31 Jul	विधा भारती अखिल भारतीय संस्थान गांधी नगर गुजरात
2011	16 Sep	जिन्दल पब्लिक स्कूल, हिसार
2011	17-18 Oct	ब्रहमनन्द् स्नातोकर महाविधालय, राठ हमीरपुर कालेज उतर प्रदेश
2011	26-27-28 Dec	रयात बाहरा इन्जिररिंग कालेज होशियारपुर पंजाब प्रान्त
2012	18-19 Feb	विधा भारती अहमदाबाद, गुजरात
2012	14-Mar	श्री मद भागवद गीता वरिष्ट माध्यमक विदयालय कुरूक्षेत्र
2012	26-May	शिक्षा भारती स्कूल, राम नगर रोहतक प्रशिक्षण हरियाणा प्रान्त
2012	28-30 May	सिटी कालेज आफ इन्जिनरिंग जालंधर
2012	19-20 Jun	रयात बाहरा इन्जिररिंग कालेज पंजाब प्रान्त
2012	21-22 Jun	पंजाब टेक्निकल युनिवरसिटी पंजाब प्रान्त
2012	30 Jun-2 July	शारदा हितकारी माडल स्कूल सैक्टर ४० डी चण्डीगढ
2012	26-27-28 July	सनातम धर्म पब्लिक स्कूल बी यू ब्लाक पीतमपुरा नई दिल्ली
2012	4-Aug	वैश्य माडल स्कूल भिवानी
2012	25-Sep	गीता विदया मदिर गोहाना हरियाणा प्रान्त
2012	26-28 Oct	उतर क्षेत्रीय विज्ञान मेला अचार्या पत्र वाचन द्वितीय स्थान राजगढ कालोनी दिल्ली

2012	21-22-23 Nov	इन्टरनेशनल कान्फ्रेंस आन हिस्टरी एड डेवलपमैंट एम डी यू रोहतक
2012	22- Dec	गीता स्कूल गोहाना हरियाणा प्रान्त
2013	26-Jan	शिक्षा भारती स्कूल, गोहाना रोड रोहतक, जिला रोहतक मे वैदिक गणित लैब का 'शुभारंभ।
2013	31-Mar	शिक्षा भारती स्कूल, गोहाना रोड रोहतक, जिला रोहतक
2013	20-Apr	सरसवती विदया मन्दिर शाहाबाद जिला अम्बाला
2013	27-Apr	गोपाल विदया मन्दिर जीन्द हरियाणा प्रान्त
2013	14-May	सरसवती स्कूल रिवाड़ी
2013	18-May	गीता निकेतन सरंकृति भवन कुरूक्षेत्र
2013	26-27-28 Jul	अखिल भारतीय वैदिक गणित संगोष्टी अयोध्या जी
2013	16-17 Oct	प्रान्तीय ज्ञान विज्ञान मेला अचार्या वैदिक गणित प्रथम स्थान
2013	28-29 Oct	गुरूनानक कालेज, मुक्तसर सहाय फोर गर्ल्स मुक्तसर पंजाब प्रान्त
2014	14-Mar	शिक्षा भारती स्कूल, गोहाना रोड रोहतक, हरियाणा प्रान्त
2014	3-May	हिन्दू हाई स्कूल मेवात
2014	11 Jun 15 Jun	विधा भारती अखिल भारतीय शिक्षण संस्थान की संगोष्ठी
2014	20-21 Sep	टैगोर पब्लिक स्कूल लुधियाना पंजाब प्रान्त
2014	21 Dec	सरसवती विद्या मन्दिर बेरी

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