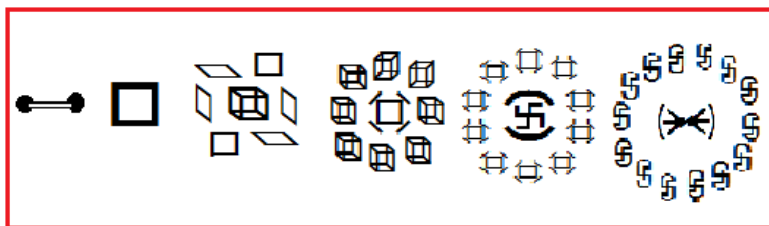


VEDIC MATHEMATICS

&

MODERN MATHEMATICS

SATHAPATYA MEASURING ROD



(HYPER CUBES 1 TO 6)

Eighth Week : Day 3

Ganita Sutra-1 (एकाधिकेन पूर्वेण ।) &
Ganita Upsutra-1 (आनुरुप्येण ।)

1. The pair of orientations, as a sequential order, shall be bringing us face to face with (+1, -1) format.
2. This format (+1, -1) with difference value $[(+1) - (-1)] = 2$ shall be further bringing us face to face with (domain, dimension) format.
3. It would further bring us face to face with (+1 space) in the role of domain fold and (-1) space in the role of dimension fold.
4. With 6-Space as origin fold shall be leading us to 3-Space in the role of dimension fold of the manifestation layer (3, 4, 5, 6) of hyper cube-5.
5. One may have a pause here and take note that the four fold manifestation layer (n, n + 1, n + 2, n + 3), as such leads to the difference value for origin fold and dimension fold being $[(n+3) - (n)] = 3$.
6. One may have a pause here and take note that there are 16 Ganita Sutras and 13 Ganita Upsutras and the difference value $(16-13) = 3$ is parallel to the difference value of origin fold and dimension fold of a manifestation layer of respective hyper cube.
7. One shall further take note that 16 points shall be formatting 15 gaps.
8. The numbers pair (15, 13) is of the format of (n + 2, n) / (domain fold, dimension fold) and as such 13 upsutras and 15 transition gaps of 16 sutras will lead us to the smooth transition from a given Sutra to the next consecutive Sutra.
9. It is this feature of the organization of Ganita Sutras and Ganita Upsutras which deserve to be comprehended well and to be properly appreciated for imbibing of its features and values.

10. Ganita Sutra-1 (एकाधिकेन पूर्वेण ।) & Ganita Upsutra-1 (आनुरूप्येण ।) are availing 16 and 10 letters respectively.
11. The combined text of Ganita Sutra-1 and Ganita Upsutra-1 comes to be a composition of $16 + 10 = 26$ letters.
12. This, this way brings to focus triple member of the sequence of numbers with last digit being '6' with first triple members of the said sequence being '06, 16, 26'.
13. Here it also would be relevant to note that number 26 permits re-organization as $26 = 5 + 6 + 7 + 8$ which is parallel to the set up of quadruple numbers (5, 6, 7, 8) which further is parallel to four fold manifestation layer (5, 6, 7, 8) of hyper cube-7.
14. One may have a pause here and take note that Vedic Systems work out solar universe in terms of 26 meters (chandras).
15. Starting with Ganita Sutra-1 and with the help of Ganita Upsutra-1 having a transition to Ganita Sutra-2 is the step which deserve to be taken consciously by properly comprehending the formats, features and working rules of Ganita Sutra-1 and Ganita Upsutra-1.
16. Simple English rendering for Ganita Upsutra-1 (आनुरूप्येण ।) is 'proportionately' / 'symmetry' / to follow the form as it is.
17. One shall sit comfortably and permit the transcending mind to simultaneously glimpse the working rules of Ganita Sutra-1 (one more than before) and of Ganita Upsutra – 1 ('proportionately' / 'symmetry' / to follow the form as it is).
18. This glimpsing and imbibing thereof, shall be enriching our comprehension of Mathematics values '1 as 1', '1 as 2', '2 as 1' and so on.
19. Chase as '1 as 2' and '2 as 1' shall be helping us reach at very rich reservoir of Mathematics values.
20. It also shall be helping us reach at the split for the dimension into a pair of half dimensions.
21. It also shall be helping us to reach at a dimensional frame of a pair of axes for 2-Space.
22. It further shall be bringing us face to face with the Mathematics of single fold at a time to a pair of folds at a time and so on.
23. One shall sit comfortably and permit the transcending mind to be face to face with following NVF equations :
 $NVF (Two) = 58 = 29 + 29 = NVF (Black) + NVF (Black)$
 $NVF (Light) = 56 = 27 + 29 = NVF (Half) + NVF (Black)$
24. One may further have a pause here and take note that the numbers pair (29, 27) is of the format of (domain fold, dimension fold).
25. These features on their chase shall be helping us comprehend and imbibe the richness of the structural organization of Ganita Sutras and Upsutras as a single integrated text of Mathematics, as well as of Mathematics, Science and Technology Discipline.
26. It is this feature of Mathematics and 'Mathematics, Science & Technology' unfolding parallel which is the unique feature of organization of the text of Ganita Sutras and Ganita Upsutras as a single integrated text.
27. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of deep trans and to glimpse the format,

features, values and virtues of the organization format of Ganita Sutras and Upsutras as a single integrated text of Mathematics, as well as of mathematics, science & technology.

28. It is going to be a reach at very rich source reservoir of values of Mathematics as well as of Mathematics, Science & Technology for the Sadkhas approaching the Ganita Sutras and Ganita Upsutras with intensified urge and imbibing of the values at each chase step parallel to the sequential organization steps of Ganita Sutras and Ganita Upsutras in the sequence and order of their placements in the organization format of the text.
29. It is certainly going to be a very demanding exercise to tabulate the whole range of values of Ganita Sutras and Ganita Upsutras.
30. This demand of chase of values of Ganita Sutras and Ganita Upsutras will expect from us that we shall approach it in institutional way.
31. The institutional approach to the values of Ganita Sutras and Ganita Upsutras will also bring us face to face with the factual reality as that this exercise would expect the learning and teaching format to have sequential enrichment from this source reservoir of values of Mathematics and of Mathematics, Science and Technology.

