

**Vedic Mathematics, Science & Technology
Teacher Course**

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TRANSITION FROM FOUR FOLDS TO FIVE FOLDS

This day the course focus is upon 'Transition from four folds to five folds'. Its four fold aspects being taken up are as follows:

13. Transition from four folds manifestation layer to five folds transcendence range.
14. Introduction to 5 space mathematics.
15. Transcendence features.
16. Lesson 3 introduction Ganita Sutras 8 to 11 and Ganita Upsutra 10 and 11.

The values being covered are to be taught as lessons numbers 13 to 16 to the students of 5-space Vedic Mathematics, Science & Technology.

LESSON-13

**TRANSITION FROM FOUR FOLD
MANIFESTATION LAYER TO FIVE FOLD
TRANSCENDENCE RANGE**

1. 4-space domain permits chase in terms of a Sathapatya Measuring Rod synthesized by hyper cubes 1 to 4.
2. Parallel to it is a format of quadruple artifices (1, 2, 3, and 4).
3. 5-space domain permits chase in terms of Sathapatya Measuring Rod synthesized by hyper cubes 1 to 5.
4. Parallel to it is the range of 5 artifices (1, 2, 3, 4, and 5).
5. Hyper cube 4 and hyper cube 5 both manifest as four folds layers along the format of idol of Lord Brahma, which is of format features parallel to that of hyper cube 4 itself.
6. Hyper cube 4 accepts 5-space content in the role of origin fold.
7. Transcendence takes place at the origin fold because of it being of a dimensional order of a degree more than that of the dimensional order of the domain fold.
8. The transcendence at the origin fold takes to base of the origin fold.
9. With it, format of four folds manifestation layers gets extended as a format of five folds range.
10. It is this feature of manifested creation permitting transcendence at the origin folds which deserve to be comprehended well for its thorough appreciation to have its complete imbibing to acquire deep insight and proper enlightenment of this phenomenon of manifested creation permitting transcendence and thereby with

these inherent potentialities, its format getting extended as a format of five folds.

11. In general, it may be expressed as that four folds manifestation layer (N, N+1, N+2, N+3) get extended in to five fold transcendence range (N, N+1, N+2, N+3, N+4)
12. One shall sit comfortably and permit the transcending mind to glimpse and to imbibe the features values of this phenomenon of transition by transcendence from the format of four fold manifestation layers to the format of five folds transcendence range.
13. As the transcendence is taking place in spatial order 4-space, as such the transcendence ranges synthesize availing the format of a pair of axes of the spatial order itself.
14. Pair of transcendence ranges (N, N+1, N+2, N+3, N+4) and (N, N+1, N+2, N+3, N+4) availing synthesis glue value (N) of the order of transcendence range.
15. It makes a synthesis value of this pair of ranges:

$$N + (5N+10) + (5N+10) = 11 N + 20.$$
16. It gives us a sequence of transcendence ranges values of all orders (of values of N = ---- -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, ----- as (-- -46, -35, -24, -13, -2, 9, 20, 31, 42, 53, 64, -----).
- 17 One may have a pause here and take note that the pair of digits availed by this value sequence entities make a

difference of value 2, which otherwise is parallel to the difference of value of domain from that of its dimension as that N space plays the role of dimension of $(N+2)$ space.

18. One shall sit comfortably and permit the transcending mind to glimpse and imbibe the values of entities of the above sequence of transcendence ranges synthesis values.
- 19 This feature of format of transcendental domain (5-space domain) deserve to be comprehended well for its thorough appreciation to have complete imbibing of its values to acquire deep insight and proper enlightenment about this phenomenon.



LESSON-14

INTRODUCTION TO 5-SPACE MATHEMATICS

1. Space approached in terms of a dimensional frame of 5 solid dimensions is designated as 5-space.
2. Mathematics of 5-space is essentially the mathematics of 5-space domain (designated as 5-space transcendental domain).
3. This domain is of a solid dimensional order.
4. 5-space domain is the manifested set up of 5 space contents.
5. It is the domain fold of hypercube 5.
6. It has creative boundary (4-space as boundary).
7. Creative boundary is of 10 components.

8. This boundary stands co-ordinate in terms of $10 \times 4 = 40$. Spatial coordinate.
9. Transcendental domain is framed to fold, firstly within creative boundary, and secondly within a solid dimension frame of 5 dimensions.
10. The creative boundary is also coordinated in terms of $10 \times 5 = 50$ solid coordinates.
11. With origin of dimensional frame superimposed upon the centre of transcendental domain, the same becomes in sealed state.
12. A sealed state transcendental domain framed to fold as within creative boundary and as within solid dimensional frame as designated as a sealed framed transcendental domain.
13. Sealed framed transcendental domain is of two fold states, being in a static state and also being in a dynamic state. The dynamic state transcendental domain, dually framed and sealed at origin, along the format the hypercube 5 leads to the value $[5 \{3 + 5 + (3 \times 5)\}] + [3 + 4 + 5 + 6] = 133 = 7 \times 19$.
14. The transcendental domain accepts measuring rod synthesized by hypercube 1, 2, 3, 4 and 5.
15. Four fold manifestation layer of hypercube 1 to 5 lead to summation value range (2, 6, 10, 14, and 18).
16. This values range, at a next step lead to value range (2, 8, 18, 32, and 50).
17. A step head this range further leads to (2, 10, 28, 60, and 110).
18. The emerging value 118 together with the format value plus format value $23 = 133$ is equal to the above value reach of dynamic state of transcendental domain.

19. 5-space Mathematics is the mathematics of above feature which makes it a basis base of mathematics of 5-space VMS & T.
20. Ganita Sutras 9, 10, 11 and 12 together with Ganita Upsutra 10 and 11 are to be learned to work out 5-space mathematics as basis base mathematics as 5-space VMS & T.



LESSON-15

TRANSCENDENCE FEATURE

1. Transcendence feature is the characteristics feature of transcendental domain.
2. 5-space domain accepts measuring rod synthesized by hypercube 1 to 5 for it's chased.
3. Along this format or synthesized a pair of transcendental ranges.
4. The synthesized transcendental ranges lead to dimensionalised domains sequence values range (... -35, -24, -13, -2, 9, 20, 31, 42, 53 ...).
5. One may have a pause here and to take note that transcendental range is a five folds range.
6. First four fold are the four fold of a manifestation layer. Namely dimension fold, boundary fold, domain fold and origin fold.
7. 5 fold is the base fold.
8. Base fold is the base of origin fold.
9. Transcendence takes placed four domained fold through origin fold for reach at base fold.
10. The origin fold is the compactified folds.
11. This may be viewed that origin are compactified.
12. Sequentially it may taken as that origin and base are compactified.
13. A step head one will come face to face with origin, base and format of base as well being compactified.
14. A step head, origin, base, format and state of format as well are compactified.
15. Infect, the whole range of compactification sequentially unfolds and thereby there is reach from origin to origin with base, a step head origin with base and its format, a

step as further, origin with base, it format, as well as with it state, and so on.

16. Origin is the forth fold.
17. Base is the fifth fold.
18. Format is the six the fold.
19. State is the seventh fold.
20. A step head is the natural state as the eight fold,
21. Brahman domain as the ninth fold.
22. Parbraham as the ultimate reservoir.
23. 4-space as origin is of a spatial order.
24. Base as 5-space is a solid order.
25. Format as 6-space is of creative order.
26. State as 7-space is a transcendental order.
27. Natural state as 8-space is of self-referral order.
28. Par Brahman domain as 9-space is of unity state order.
29. Spatial order leads to number value 2.
30. Solid order leads to number value 3.
31. Creative order leads to number value 4.
32. Transcendental order leads to number value 5.
33. Self-referral order leads to number value 6.
34. Unity state order leads to number value 7.
35. The compactification of origin and base orders lead to value $2+3 = 5$.
36. The compactification of origin base and format order to lead value $2+3+4 = 9$.
37. The compactification origin, base, format, state order need to value $2+3+4+5 = 14$, and so on.
38. The transcendence for domain through origin sequentially leads to value range (2, 5, 9, 14, 20, 27, 35, 44, 54, 65, 77 ...).

39. Four fold manifestation layer (1, 2, 3, and 4), gets extension as five folds transcendental ranges (0, 1, 2, 3, and 4) and (1, 2, 3, 4, 5).
40. Transcendental ranges of 0 order (0, 1, 2, 3, 4) and (0, 1, 2, 3, 4) synthesized value $(0+1+2+3+4) + (0) + (0+1+2+3+4) = 20$.
41. One shall sit comfortably and permit the transcending mind to glimpse and imbibe the features and values of transcendence at origin.
42. This transcendence phenomenon within transcendental domain is no more available within creative domain (4-space domain) in its sealed state. However the movement origin fold becomes unsealed, a transcendence takes place and as a result there happens to be a manifestation of the transcendental domain as a four folds manifestation layer.
43. It is this feature of manifested creation with transcendental base which deserves to be comprehended well.
44. One shall sit comfortably and to glimpse and imbibe the transcendence feature.



LESSON-16

INTRODUCTION TO GANITA SUTRAS 8,9,10 & 11 AND GANITA UPSUTRAS 10 & 11

1. Ganita Sutras 8, 9, 10 & 11 and Ganita Upsutra 10 & 11. Deserve to be glimpsed together for comprehending the specific values and features of Vedic Mathematical domain.

2. Ganita Sutra 10 focuses upon the fullness/completeness feature of a domain. Simultaneously it also focuses upon the incompleteness feature of a domain.
3. Split of a closed interval as a closed interval and half open –half closed interval is the one such illustrative situation.
4. Likewise split of a square, and of a cube, as well of every hypercube, including hypercube 5 will bring us face to face with completeness splitting as complete and incomplete simultaneously.
5. Ganita Sutra 11 focuses upon dynamic state a longed static state format as a phenomenon of a framed domain, including that of transcendental domain.
6. It is feature of an existence phenomenon.
7. The existence phenomenon with a frames is of a unique feature as that even with the frame remaining in the static state, the domained framed within such framed is to be of a dynamic state.
8. Ganita Sutra 11 focuses upon ‘deficiency’.
9. One illustrative situation is of 10 points coverage being of only nine unit coverage.
10. Ganita Sutra 11 focuses upon constitution of domain being fulfilled with whole range of structure of the domain of which constituent is the part.
11. Illustrative situation is of a cube within a cube and also a cube within a cube within another cube.
12. Ganita Upsutra 10 focuses upon strips of features of equal value to be further striped off of their features.
13. It is like the transcendental domain being strip of its solid order, and a step head, solid order itself also being stripped off of its linear order.

14. Ganita Upsutra 11 focuses upon the remainder being approached in terms of its last digits.
15. The Illustrative situation is well a number N is to be divided by M^2 , as a first step N would be divided by M and there would be a reach and its remainder and when a second step there would be division again by M , the previous quotient as well shall be leading to its remainder.
16. The resultant remainder of division of N by M^2 is to view first step remainder contributing towards last digit.
17. One may have a pause here and to take note that the processing steps of Ganita Sutras 8, 9, 10 & 11 and Ganita Upsutra 10 and 11. Or of feature of approaching as of repeated frequencies requirements of re-manifestations formats.
18. One may have a pause here and to take note that manifestation format is a format of four folds of four conjugative dimensional domains in their sequential role as of dimensional fold, boundary fold, domain fold and origin fold.
19. These roles, these are, are of individual domains of concerned dimensional spaces.
20. Illustratively one space domain as dimensional fold, 2-space domain as boundary fold, 3-space as domain fold and 4-space domain as origin fold is a manifestation layer of hyper cube 3.
21. No if hypercube 1, 2, 3, 4, manifest together as four folds, the same will amount to re-manifestation.
22. This leads us to 4x4 format expression as follows:

1	2	3	4
2	3	4	5
3	4	5	6

4 5 6 7

23. One shall sit comfortably and permit the transcendence mind to glimpse and imbibe above features of mathematics of Ganita Sutras 8, 9, 10 & 11 and Ganita Upsutra 10 and 11. ■