

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

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TRANSCEND HALF

This day the course focus is upon ‘Transcend half’. It four folds aspects being taken up are as follows:

- 85. Numbers values and artifices
- 86. Numbers values and strings
- 87. Transcend half
- 88. Quadruples values (10^0 , 10^1 , 10^2 , 10^3)

The values being covered are to be taught as lessons numbers 85 to 88 to the students of 4-space Vedic Mathematics, Science & Technology.

LESSON-85

NUMBERS VALUES AND ARTIFICES

1. Numbers accepts association of values and artifices.
2. Values take us to space contained domain and artifices takes us to dimensional frames of dimensional domains.
3. One way to approach number is as per their relationship and coordination with number ‘1’.
4. The other way is to reach at the interrelationship and coordination of numbers with number ‘0’.

5. Starting with a number '1' and reaching at number '0' and the other way round, starting with number '0' and reaching at number '1' will bring us face to face with the values and artifices of numbers '0 & 1' and their interrelationship and coordination.
6. Taking '0' as '1', will bring us face to face with '1' itself has it pairing with itself.
7. One may have a pause here and to take note that it shall be focusing upon a paired pairs set up [(0, 1), (1, 1)].
8. Further by accepting '1' as '0', it shall be bring us face to face with a paired pairs [(0, 0), (1, 0)].
9. One shall sit comfortably and permit the transcending mind to glimpse and imbibe zero space domain and 1-space domain.
10. One shall further sit comfortably and permit the transcending mind to glimpse artifices of numbers pairs '0' & '1'.
11. The nearer illustrative situation which deserve to be comprehended well, in the above context of above relationship of numbers pair (0, 1):
 - (I) $0+0 = 0 = (-0) = (0) \times (-0) = (0 \times 0)$.
 - (II) $a^0 = 1 = b^0 = (ab^0) = 1/b^0$ for $(b \neq 0)$.
 - (III) $1+1 = 2$ and $1 \times 1 = 1 = (-1) \times (-1)$.
12. One shall sit comfortably and permit the transcending mind to glimpse (0-space), of which amongst others it has the feature as follow:
 - (I) Zero space plays the role of dimension of 2-space.
 - (II) Zero space accepts (-2) space has its dimensions.
 - (III) Hyper cube (0), the representative regular body of zero space manifests along the four fold

manifestation format layers $(-2, -1, 0, 1)$ with summation value $= (-2)$.

- (IV) Dimensional frame of zero space is a set up of **Zero number** of dimensional order (-2) .
 - (V) The boundary of hyper cube 0 is a set up of zero number of components of (-1) space domain.
 - (VI) Origin of zero space is (1-space) which is of a negative linear dimensional order.
 - (VII) The base of transcendental domain of zero order is (2-space) .
13. One may have a pause here and to take note that negative linear order of one space as origin, (-1space) plays the role of boundary of zero space as zero number of dimensions and the dimensional order of zero space is (-2 space) , and all these features brings us face to face with the different expression of zero space bodies.
 14. Zero has a whole number, zero space as dimensional space, zero space bodies manifesting within creator's space along four folds manifestation layer format $(-2, -1, 0, 1)$ and the prominent feature of zero space body being as have been enlisted above deserve to be comprehended well.
 15. The existence of value zero in triple state $(-0, 0, +0)$ deserve to be comprehended well.
 16. Further, the specific role of '0' as of 'place value' for whole range of place value system including ten place value systems deserves to be comprehended well.
 17. The double digit expression and reflection pairing of artifices of number $(01, 10)$ as well deserve to be comprehended well.
 18. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of

trans and to glimpse and imbibe the values and artifices of number (0), has zero space domains and has dimensional frame of zero space.



LESSON-86

NUMBERS VALUES AND STRINGS

19. One sequence of number value string is :
[(0), (0, 1), (0, 1, 2), (0, 1, 2, 3), (0, 1, 2, 3, 4) ...] parallel to the format of this sequence of strings, to shall be having sequences of 'domains', as:
[(0-space domain), (1-space domain), (2-space domain), (3-space domain), (4-space domain) ...].
20. This would further lead us to sequence of space contained lump, being:
[(0-space content lump), (0-space, 1-space contained lump), (0-space, 1-space, 2-space contained lump), (0-space, 1-space, 2-space, 3-space contained lump) ...].
21. It further leading us to different roles of dimensional spaces play by their space contained lump, as:
[(zero space contained as dimension), (zero space, one space contained as dimension), (zero space, one space & two space contained as dimension) ...].
22. It further leading us to different roles of boundary spaces plays by their space contained lump, as:
[(zero space contained as boundary), (zero space & one space contained as boundary), (zero space, one space & two space contained as boundary) ...].
23. It further leading us to different roles of origin spaces plays by their space contained lump, as:

- [(zero space contained as origin), (zero space, one space contained as origin), (zero space, one space & two space contained as origin) ...].
24. It further leading us to different roles of base spaces plays by their space contained lump, as:
[(zero space contained as base), (zero space, one space contained as base), (zero space, one space, & two space contained as base) ...].
 25. Quadruples of above string of the role of (dimensions, boundary, domain, origin) synthesis as hyper cubes of respective domains.
 26. It leads to a sequence of sequences as:
[(hyper cube 0), (hyper cube 0, hypercube 1), (hypercube 0, hypercube 1, hypercube 2), (hypercube0, hypercube 1, hypercube 2, hypercube 3) ...]
 27. Above sequence of sequences synthesis sequence of measuring rod of (hyper cube 0, hyper cube1, hyper cube 2 ...) as synthesis set up of [(hyper cube 0), (hyper cube 0 and hyper cube 1), (hyper cube 0, hyper cube 1, and hypercube 2) ...].
 28. One may have a pause here and to take note that these measuring rods are designated as Sathapatya measuring rod.
 29. These measuring rod help chase respective domains fold.
 30. One may further have a pause here and to take note that the transcendence take place at origin fold.
 31. As such Sathapatya measuring rod provide a format for transcendence at the origin.

32. Transcendence at the origin is of sequential phases, as origins are compactified range. Sadhakas follow this sequential transcendence.
33. It is glimpsing and imbibing the features and values of transcendence at origin.
34. With this glimpsing and imbibing the Sadhakas perfect their intelligence as a intelligence field on consciousness base.
35. Sadhakas are conscious of their consciousness base.
36. Consciousness base has its unity format.
37. As such, Sadhakas are of lively consciousness as per the values of the consciousness format.
38. Consciousness format has its sustained state by the natural reservoir (Asht-Prakrite / hyper cube 8) set up.
39. Hyper cube 8 has manifestation as well as transcendental values fountained from self sustained Brahman reservoir (9-space).
40. The whole phenomenon is ultimately taking us to par Braham.



LESSON-87

TRANSCEND HALF

41. Origins are compactified.
42. Transcendence through compactified origin range is of sequential steps. This phased transcendence, sequentially covers shot ranges compactified origins strings.
43. Formulation 'first' accepts NVF value '72' which is parallel to NVF value '72' of formulation origin.

44. As such the transcendence initiation of its first step would be to reach origin of domain fold.
45. One may have a pause here and to take note that NVF (domain) = NVF (three) = NVF (light) = NVF (fold).
46. To have proper appreciation of this phenomenon, one shall begin with 'cube / hypercube3' at its origin (4-space), which is of a spatial order.
47. One may have a pause here and to take note that 3-space (domain) is of a linear order, as such the Sathapatya measuring rod 3-space domain permit chase in terms of unit (1 as 1).
48. Spatial order of four space gives rise to a unit (2 as 1 and 1 as 2), with a working unit (1/2).
49. One may further have a pause here and to take note that NVF (transcendence) = $125 = 5^3 = 27 + 98 = \text{NVF (transcend half)}$.
50. It is this feature, which deserve to be comprehended well.
51. Transcendence at the origin is parallel to the working unit of the space content playing the role of origin.
52. One may have a pause here and to take note that the origin is, always of a dimensional order higher than that of domain fold.
53. Here in the context, the linear units lead to a sequence of values (1, 2, 3, 4, 5, 6 ...), while the sequences of unit of spatial order (2 as 1 & 1 as 2) with a working rule (1/2) leads to sequence of value (1, 3/2, 2, 5/2, 3, 7/2, 4 ...).
54. One may have a pause here and to take note that the transcendence at origin takes to the base fold.
55. It is this, feature which deserves to be comprehended well.

56. Base fold is a transcendence seat.
57. It transcends manifestation format.
58. One may have a pause here and to take note that manifestation format is a set up of four folds (dimension, boundary, domain, origin), while base is the fifth fold and same is free of the restriction and limitation of manifestation format.
59. One may further have a pause here and to take note that $NVF \text{ (base)} = 27 = NVF \text{ (half)}$.
60. One may further have a pause here and to take note that spatial order during transcendence, manifests 'half' of space contained, and it is this feature, which deserve to be comprehended well to imbibe the values of manifestation of half contained lump.
61. This feature as such attains manifestation for a spatial unit set up has a manifestation of a pair of half domains.
62. It is this feature, which deserves to be comprehended well.
63. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of *trans* and to glimpse and imbibe the features and values of transcendence phenomenon resulting into manifestation for a domain into a pair of half domain.
64. The system which insist upon linear unit, restrict themselves up till full domain manifestation while, a step ahead, the spatial order takes us to the phenomenon of manifestation of a pair of half domain set ups as domains.
65. It that way brings us face to face with the limitation of mathematics of linear order 3-space.

66. To transcendence these limitation we have to transcend from linear order 3-space set up to spatial order 4-space set up.
67. It takes us to real four space where space contained manifests a pair of half contained domains.
68. It is this feature with whose imbibing we shall be availing Vedic Mathematical systems of creator's space (4-space).
69. The focus here is upon the set up of a dimension and a dimensional frame.
70. In case of 3-space it is one space content which manifest as a whole.
71. However in case of 4-space it dimension of spatial order (2-space contain lump playing the role of dimension) and the dimension here is of potentiality to manifests as (half).
72. It is this feature which is making all the difference between mathematics of 3-space and mathematics of 4-space.



LESSON-88

QUADRUPLES VALUE (10^0 , 10^1 , 10^2 , 10^3)

73. Creative boundary (4-space boundary) of transcendental domain (5-space as domain) manifests a ten place value system format.
74. One may have pause here and take note that four space with it transcendental origin at its initial stage is of zero order state.
75. Sequentially transcendence there from leads to values (10^0 , 10^1 , 10^2 , 10^3 ...).

76. This brings us face to face with organization format of ten place value system manifesting a format a creative boundary of transcendental domain.
77. Amongst other the following feature , deserves to be comprehended well
 - (I) $(1+2+3+4=10^1)$.
 - (II) 4-space has 9 geometry ranges and parallel to it manifests 9 numeral ranges.
78. It would be relevant to take note that 10 points range as 9 unit's gaps.
79. As such leads us to a structural set up of $(10+9) = 19$.
80. Working with 19 numerals range shall be leading us to 20 place value system.
81. One may have a pause here and to permit the transcending mind to glimpse and imbibe the values of this structural set up which take care of first generation counts and also the second generation count, their by there is a reach of 10 place value system to 20 place value system.
82. Further as that, domain boundary ratio for hyper cube 5 comes to be $1^5:10b^4$.
83. This that way makes five space domains as a format of five place value system.
84. Still further the organization of $10 = (5-1)+(5+1)$ leads us to a grid format (4×6) which accommodate all the 24 double digit numbers of five place value system.
85. Still further as that value (4×6) is parallel to dimensional value (4×6) of 6-space dimensional frame of 6 creative dimensions.

