

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

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SEQUENCE OF FINITE STRINGS

This day the course focus is upon 'Sequence of finite strings'. It four folds aspects being taken up are as follows:

- 53. Transition from cube as hyper cube 3 to hyper cube 4
- 54. Sequence of finite strings
- 55. Infinite sequence of infinite sequences
- 56. Divya Ganga Parvaha

The values being covered are to be taught as lessons numbers 53 to 56 to the students of 4-space Vedic Mathematics, Science & Technology.

LESSON-53

**TRANSITION FROM CUBE AS
HYPERCUBE 3 TO HYPERCUBE 4**

1. Cube splits into eight sub cubes parallel to eight octants cut of 3-space.
2. The innermost corner points of all the eight sub cubes accepts common placement at centre of the cube.
3. One may have a pause here and take note that within each corner point of the cube is embedded a three

dimensional frame of half dimensions and same sustained sub cube.

4. One shall sit comfortably and permit the transcending mind to glimpse and imbibe the value and feature of above setups.
5. It would be blissful to take note that the above setup brings us face to face with the feature that centre of the cube enveloped by eight sub cubes and it is parallel to space of the centre of cube being an enveloped within a solid boundary of eight components.
6. One may have a pause here and take note that this feature is parallel to one space accepting two components of 0 space set up, square accepting boundary four linear components, cube accepting a spatial boundary of 6 components and a step ahead, 4-space accepting solid boundary of 8 components.
7. This, as such sequentially takes us from interval to square, square to cube and cube to hypercube 4.
8. It would be blissful to comprehend and imbibe the value of reality of existence phenomenon of 4-space.
9. The reality of our space is not restrictly up till 3-space to which our mental state, offenly gets continued as if space around us is a three space moving point manifests a track of line, moving line manifests track of a surface, moving surface manifests track of a solid and moving solid manifests track of four space.
10. Hyper cube 1 (line) is respective regular body 1-space, hyper cube 2 (square) is the respective regular body of 2-space, hyper cube (cube) is respective regular body of 3-space, hyper cube (four) is the respective regular body of 4-space.

11. One shall blissful and glimpse and imbibe the reality of 4-space and to chase four space mathematics, science and technology of along the format of hyper cube 4.
12. Spatial order been availed for chased for mathematics system of four space.
13. Four space contained be availed for chased of science of 4-space.
14. Hypercube 4 contained be availed for the chased of technology of four space.
15. It would be blissful to glimpse and imbibe the differences of values of 3-space mathematics and 4-space mathematics in terms of linear order of 3-space and spatial order of 4-space. ■

LESSON-54

SEQUENCE OF FINITE STRINGS

1. A string formally may be accepted a synthetic set up of finite number of hyper cubes, of same or of different orders.
2. Linear order creates hypercube 3.
3. A finite number of hypercube 3 may be taken as a synthetic setup of finite number of hyper cubes of linear order.
4. In general a finite number of hypercube N shall constituting a string of finite steps of order $(N-2)$.
5. The other category of strings of finite steps is a synthetic step up of hypercube 1 to N , for all value of n .

6. The first category of strings may be designated as dimensions/axes/constitutions of a dimensional frame of the order of the dimensions (strings).
7. The second category of strings may be designated as measuring rod. Illustratively measuring rod constituted by hypercube (-1) will be the measure rod 1 space.
8. A synthetic setup of hypercube (-1) and hypercube (0) shall be constituting a measuring rod of 2 space.
9. N space domain accepts measuring rod synthesized by hypercube 1 to N.
10. This measuring rod is the measuring rod of n space domain.
11. However the measuring rod synthesized by hyper cubes (-1, 0 ... N-2) is the measuring rod of dimension of n space.
12. One may have pause here and take note that the sequence of finite strings is the sequence of constitution of the dimensional frames of hypercube N.
13. One may have paused here and take note that n is finite, and the sequence of all value of n is infinite.
14. There for sequence of finite strings would be the sequence of infinite number of finite strings.
15. The sequence of measuring rod is the sub sequence of the sequence of the strings.
16. It would be blissful exercise to tabulate finite strings.
17. Further it would also be blissful to tabulate sequence of finite strings.
18. Still further it would be blissful to tabulate finite measuring rods.
19. Still further it would be blissful exercise to tabulate the sequence of finite measuring rods.

20. One shall sequentially chased the structural setup of hypercube 3 (cube), fold wise in reference to finite strings. And finite measuring rods.
21. It would be a blissful exercise to chase dimension fold of hypercube 3 in terms of its sequence of finite strings, and also in terms of sequence of its finite measuring rod.
22. Likewise one shall chased boundary fold, domain fold, and origin fold of hypercube 3 in terms of their respective finite strings and finite measuring rod.
23. In general, one shall chased different fold of hypercube n in terms of their respective finite string and finite measuring rod.
24. One shall specifically chased hypercube 1, 2, 3, 4, 5, 6 fold wise in terms of their respective finite string and finite measuring rods. ■

LESSON-55

INFINITE SEQUENCE OF INFINITE SEQUENCES

1. Linear order is a track of a moving point.
2. Infinite number of points (0 space body) permits formatting along a line (1-space domain).
3. As such, line (1-space domain) may be accepted as a sequence of infinite string of zero order.
4. The pair of such infinite sequences shall be covering exhausted the spatial order within (a pair of axis)
5. The spatial order cover, as such, as a pair of infinite sequences of zero order setup (0 space body) shall be settling a processing system for exhausted coverage of setups of infinite sequence of infinite sequences of whole range of dimensional orders.

6. One shall sit comfortable and permit the transcending mind to glimpse and imbibe the above format feature and value.
7. It would be blissful exercise to chase infinite measuring rod synthesized by whole range of hypercube N , for N being negative, zero, or positive whole numbers.
8. It would be blissful to take note that the in terms of this infinite measuring rod, there can be parallel chase to outward expansion as well as inward expansion along hypercube format manifesting within creator's space.
9. The feature of compactification to the origin , transcendence through origin, take off at the boundary as a place value format, are the feature which deserve to be comprehended well to acquire proper insight and appropriate enlightenment of this phenomenon of spatial order setup.
10. The sequential manifestation and dissolution of different dimensional orders within creator's space and the re manifestation phenomenon, as well deserve to be comprehend well for their complete imbibing.
11. Illustratively the manifestation of cube with a cube, square with a square, hypercube 4 within a hypercube 4, in generally hyper cube N within hypercube n deserve to be chased properly.
12. The superimposition of lower dimensional order upon the higher dimensional order, and other way round as well, the superimposition of higher dimensional order upon lower dimensional order or the feature and value which also deserve to comprehend well.
13. Compactification of origin folds and their sequential unfolding, as well are the feature and value which also deserve to be comprehend well.

14. The transformation of the space contained with a dimensional frame is also a feature and value, which as well deserve to be comprehended well.
15. One may have a pause here and take note that the sequentially transformation of space contained as n space contained , for all value of N, is the phenomenon which deserve to be comprehend well and same to be fully imbibed.
16. The phenomenon of transcendental carrier, carrying the transcendental space contained (5-space contain), along the Sathapatya measuring rod of 6 space domain is the feature which as well deserve to be comprehend well. For its full appreciation.
17. Of such phenomenon happening within the chase of the sun.
18. One may have a pause here and take note that transcendental domain (5-space) is enveloped with in a creative boundary of 10 components.
19. The creative boundary transcendental domain manifests format for 10 place value system.
20. The organization of value $10 = 4+6$ and the resultant take of the boundary and manifestation of six space of creative dimensional order take us to 6x4 grids which accommodate all the 24 double digit number of 5 place value systems.
21. One may have a pause here and take note that the parallel feature is lively for the format of all hyper cubes.
22. One shall sit comfortable and permit the transcending mind to glimpse and imbibe these format feature values of transcendental carriers. ■

LESSON-56

DIVYA GANGA PARVAHA

1. Divya Ganga Parvaha is the transcendental concept.
2. At the middle of Divya Ganga Parvaha is the reservoir of transcendental domain values.
3. Divya Ganga Parvaha is the flow path of transcendental eternity along the artifices of sole syllabus Om.
4. Sole syllabus Om unfolds itself as of four quarter.
5. The transcendental seat is and the middle of second and third quarter.
6. From the middle is the two fold transcendence and ascended of the dimensional orders.
7. With (5) for the transcendental domain, the transcendence and ascended there from take us to a flow upward as (5, 7, 9) and flow downward as (5, 3, 1).
8. Middle transcendental seat remains un-manifests and the four fold flow of transcendental eternity becomes of value steps from top to bottom as (9, 7, 3, and 1).
9. One may have pause here and take note that $(9+7+3+1) = 20$ together with middle transcendental value (5) leads to value $25=5^2$.
10. In general the transcendental eternity with transcendental value N leads us to Divya Ganga Parvaha of value steps $[N+4, N+2, (N), N-2, N-4]$.
11. One may have pause here and take note that the summation value of $(N+4, N+2, N-2, N-4)$ together with value $N \times (N-4)$ lead to value n square.
12. As such the Divya Ganga Parvaha is transcendental phenomenon which avails spatial format (square format).

13. One shall sit comfortable and permit the transcending mind to glimpse and imbibe the format feature and value of Divya Ganga Parvaha.
14. It would be blissful exercise to sequentially chase to Divya Ganga Parvaha of middle transcendental seat value $N = (5, 6, 7, 8, 9 \dots)$.
15. It would be further blissful to chase Divya Ganga Parvaha for $N = 0$.
16. Still further, it would also be blissful to chase Divya Ganga Parvaha for $N = (-1, -2, -3, -4, -5 \dots)$.
17. It would be blissful to chase quadruple constituted paired pairs of odd number values, as follows $(9, 7, 3, 1)$ $(7, 5, 1, -1)$ $(5, 3, -3, -5 \dots)$.
18. In general one shall chase quadruple values $2M+1, 2M-1, 2M-5, 2M-7$ for all value of M . ■