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

By Dr. S. K. Kapoor

VALUES EIGHT AS UNIT

This day the course focus is upon 'Value eight as unit'. It four folds aspects being taken up are as follows:

21. Value eight as unit
22. Numbers values formulations
23. Introductory of real 5-space
24. Transcendental reality general

The values being covered are to be taught as lessons numbers 21 to 24 to the students of 5-space Vedic Mathematics, Science & Technology.

LESSON-21

VALUE EIGHT AS UNIT

1. One way to approach Vedic processing system is to take value eight as a unit.
2. Value eight accepts one expression as $2^3 = 1^3$.
3. This value expression is of the format and feature as that 'cube, big or small' is a cube.
4. All cubes, big or small, are of same structural setups along the same format.

5. Formulation 'Ek' accepts transcendental code value '8'.
6. Cube permits splits as eight sub cube along the format of split of 3-space as eight octants.
7. Spatial expression accepts four direction and four sub directions. Making it eight directional setups.
8. Cube is a set up of eight corner points and within each corner point is embedded a three dimensional frame of half dimensions.
9. Each octant is asset up of a 3 dimensional frame of half dimensions manifesting 3 surface plates for sustaining sub cube.
10. One may have a pause here and to take note that the above sustains set ups of for each of eight sub cubes of a cube, infect make a structural setup of following eight structural component:

i.	Origin	1.
ii.	Axes	3.
iii.	Surface plate	3.
iv.	Sub cube (volume)	1.
	Total	8.

11. Hypercube 4 accepts a solid boundary of eight components.
12. Eight space plays following role:

    i. Eight space as domain fold.
    ii. Eight space as boundary fold.
    iii. Eight space as dimension.
    iv. Eight space as pre-dimension state.
    v. Eight space as origin fold.
    vi. Eight space as base fold.

vii.   Eight space as format of base fold.
viii. Eight space as format state.

13. Different roles of 8-space accepts expression as:
    8x8 matrix as follows:

1	2	3	4	5	6	7	8
2	3	4	5	6	7	8	9
3	4	5	6	7	8	9	10
4	5	6	7	8	9	10	11
5	6	7	8	9	10	11	12
6	7	8	9	10	11	12	13
7	8	9	10	11	12	13	14
8	9	10	11	12	13	14	15

14. Parallel to above expression 8x8 matrix of the roles of (-8 space:

-8	-7	-6	-5	-4	-3	-2	-1
-7	-6	-5	-4	-3	-2	-1	0
-6	-5	-4	-3	-2	-1	0	1
-5	-4	-3	-2	-1	0	1	2
-4	-3	-2	-1	0	1	2	3
-3	-2	-1	0	1	2	3	4
-2	-1	0	1	2	3	4	5
-1	0	1	2	3	4	5	6

15. The dimensional synthesis values of dimensional order (8)/eight space as dimensions, for one to eight number of dimensions comes to be as follows:

    i.   Single dimension value   8.
    ii.   Pair of dimension value   10.
    iii. Triple dimension value   6.

iv.	Quadruple dimension value	-4.
v.	Five dimension value	-20.
vi.	Six dimension value	-42.
vii.	Seven dimension value	-70.
viii.	Eight dimension value	-104.

16. Zero number of dimensions of dimensional order eight lead to dimensional value ….0.
17. Negative number of dimensions (1, 2, 3, 4, 5, 6, 7, 8 ….), half dimensional order eight comes to be as under:

i.	Single dimension value	-8.
ii.	Pair of dimension value	-10.
iii.	Triple dimension value	-6.
iv.	Quadruple dimension value	4.
v.	Five dimension value	20.
vi.	Six dimension value	42.
vii.	Seven dimension value	70.
viii.	Eight dimension value	104.

18. Dimensional synthesis values of dimensional order (-8), for 1, 2, 3, 4, 5, 6, 7, 8 numbers of dimensions deserves to be chased.
19. It would be a blissful exercise to tabulate the dimensional synthesis values of dimensional order (-8) for zero number of dimensions, as well as follow 1, 2, 3, 4, 5, 6, 7, 8 numbers of dimensions and also for negative number of 1, 2, 3, 4, 5, 6, 7, 8 dimensions.
20. One shall sit comfortably and permit the transcending mind glimpse and imbibe the structural setups of all the eight sub-sub cubes of a sub cube.

21. It would further be a blissful exercise to glimpse and imbibe the structural setup of inner most 8 sub-sub cubes of a cube.

LESSON-22
NUMBERS VALUES FORMULATIONS

1. Numbers values formulation *sunyam ek dwua tre chatur panch shat sapt ashta nava dash* accept transcendental code values (18, 16, 8, 12, 15, 10, 14, 11, 17, 10) respectively.
2. Sequentially arranged, these values make a range of values (8, 8, 10, 10, 11, 12, 15, 16, 17, 18).
3. Of these, only eight of them are distinct.
4. These eight values are of two parts of four values each.
5. First quadruple values of are (8, 10, 11, 12).
6. The second set ups of quadruple value of are (15, 16, 17, 18).
7. This second sets of quadruple values are parallel to four fold manifestation layer (15, 16, 17, 18) of hypercube 17.
8. The first set up of quadruple value (8, 10, 11, 12) has a jump over value (9).
9. The values range 8, 9, 10, 11, 12 is the transcendental range of natural dimensional order (8-space in the role of dimension).
10. It would be relevant to take note that 8-space accepts $2 \times 8 + 1 = 17$ geometries range.
11. This geometries range is a set of eight positive geometries and nine non positive geometries.
12. Further that as values pair (8, 9) accepts reorganization as 2^3, 3^2, which is a vertical reflection pair, as that here base and index digits swap their places.
13. One may have a pause here and to take note that Ganita Sutras text avails (*sunyam ek dwua, sapt, nava dash*).

14. The remaining five values (3, 4, 5, 6, 8) / (*tre chatur panch shat, ashta)* are be not being the part of text.
15. One may have a pause here and to take note that Ganita Sutras system avail the format of (3, 4, 5, 6) and of (8) to work out the mathematical of Ganita Sutras and upsutras.
16. Here it would be relevant to take note (3, 4, 5, 6), is parallel to four fold manifestation layers of hypercube 5.
17. Further as that 5-space is a solid order space and 5-space domain in dynamic state along a solid dimensional format make a value $5+3 = 8$.
18. One shall sit comfortably and permit the transcending mind to glimpse and imbibe the above features.
19. The features of number value 8 as a unit is being availed by the Vedic Mathematics system of Ganita Sutras and Ganita Upsutra.
20. It would be blissful to take note that $(6 \times 6) = 8$ is the dimensional synthesis value for a pair of self-referral dimensions (6-space as a dimension).
21. One may have further pause here and to take note that solid dimensional order creates transcendental domain (5-space domain) of self-referral origin.(6-space as origin).
22. As such the reach within 6-space domain along a Sathapatya measuring rod is reach up-till unity state origin (7-space as origin) of a transcendental dimensional order.
23. One may have a pause here and to take note that this bring us face to face with values 6 at either and point of 6-space domain and the coverage within six space domain being in terms of a transcendental dimensional

order (5space as dimensions) superimposed upon creative dimensional order of six space domain itself.

24. Firstly the pair of value (6, 6) together value (5) leads us to the real value (6+5+6) = 17.
25. Secondly 4+5 = 9.
26. And further as that reach up till first end point of six space domain is a sequential reach from value zero as of values 1, 2, 3, 4, 5, 6 respectively and the reach from second end point onward is of value range (6, 7, 8, 9, 10, 11).
27. One may have further pause here and to take note that taking value 5 within the 6-space domain as value '1', the same shall be taking value four, as value step of value '1/2'.
28. Naturally it shall be taking value 3 in terms of values steps (0) and value six will be approached in term of value step (3/2).
29. This sequential extension along either limb will be progression expression of a value range:
    (-- -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5 --).
    (-- 4, 3½, 3, 2½, 2, -1½, -1, -½, 0, ½, 1 ...).
30. The extended values ranges, emerges as follows by having multiplication of respective step values of above both rows:
31. (... -20, -14, -9, -5, -2, 0, -1, -1, 0, 2, 5, 9, 14, 20 ...).
32. One may have a pause here and to take note that the central quadruple value (0, -1, 0) have on their either side equal but of opposite orientation values ranges (... -20, -14, -9, -5, -2) and (2, 5, 9, 14, 20 ...)
33. One may have a pause here and to take note that values range (2, 5, 9, 14, 20 ...) accepts reorganization as (0+2, 0+2+3, 0+2+3+4, 0+2+3+4+5, 0+2+3+4+5+6 ....)

this sequential progression is of sequential transcendence steps of values parallel to dimensional orders 2 + dimensional order 3, dimensional order 2 + dimensional order 3 + dimensional order 4, dimensional order 2 + dimensional order 3 + dimensional order 4 + dimensional order 5,…) and so on.

34. One may have a pause here and to take note that this is going to be parallel to the compactification of origins.

35. It is further parallel to compactification of origin fold, base fold, format fold, format state fold, and so on.

36. One shall sit comfortably and permit the transcending mind to glimpse and imbibe the values and feature of above compactification and transcendence through compactification of different fold.

37. One may have further have a paused here and to take note that the settlement of formulation *sunyam ek dwua tre chatur panch shat sapt ashta nava dash* and their transcendental code value (18, 16, 8, 12, 15, 10, 14, 11, 17, 10) respectively.

38. One shall sit comfortably and permit the transcending minds to glimpse and imbibe the formulation *sunyam* of transcendence code value 18.

39. Further as that the transcendence code value 18 is parallel to the summation value of four fold manifestation layer (3, 4, 5, 6,) of hypercube 5.

40. It would be blissful to take note that the pair of formulation (*sunyam, om)* accepts transcending code values pairs (18, 16) which is of (domain, dimension) format.

41. Further that the pair of formulation (*ek dwua)* accepts transcendence code value pairs (8, 16) which is parallel

to format (2, 1) and it bring us face to face with the spatial order measure '2 as 1'.

42. Further as that the spatial order also accepts a measure of feature '1 as 2'.

43. One may have a pause here and to take note that the pairs of formulation (*dwua tre*) accepts a pairs of transcendental code values (16, 8) which is of the format (2, 1).

44. One shall have further have a paused here and to take note that value triple (*ek dwua tre)* permit reach by simultaneously application of spatial order measure '2 as 1 and 1 as 2'.

45. It is this feature which deserves to be comprehended well.

46. Formulation pair (*tre chatur)* accepts transcendental code values pairs (8, 12) which is parallel to the format (1, 3/2).

47. One may have a paused here and to permit the transcending mind to glimpse and imbibe the value and feature of above formulation and their values and formats of sequential quardination.

48. The range of five value step is designated as '*pankti'*.

49. The formulation '*pankti*' accepts transcendental code value '19'.

50. As such the reach of transcendental ranges is uptill southern hemi sphere of placement value '19'.

51. One may have a paused here and to take note that formulation '*sunyam*' accepts transcendental code value '18'.

52. The formulation punch accepts transcendental code value '15', while transcendence code value '*shat'* accepts

transcendental code value '10' and ahead transcendental code value '*sapth*' accepts transcendental code value '14'.

53. It would be blissful to take note that values pairs (10, 14) accepts reorganization (1+2+3+4, 2+3+4+5,) which is parallel to four fold manifestation layers (1, 2, 3, 4) and (2, 3, 4, 5) of hyper cubes 3 and 4 respectively.

54. One shall sit comfortably and permit the transcending mind to comprehend and imbibe above values and features in their sequential placements.

55. One may have further have a pause here and to take note that formulation pairs (*panch* and *nava*) accepts transcendental code value pair (15, 17) which is parallel to format of (dimension, domain).

56. Here it also would be relevant to take note the pair of formulation (*pankti* and *nava*) accepts a pair of transcendental code values (19, 17), which is parallel to the placement value pair of southern hemi sphere and northern hemi sphere.

∎

LESSON-23

REAL 5-SPACE INTRODUCTORY

1. This year we shall be glimpsing and imbibing values and virtues of real 5-space.

2. Real 5-space is 'transcendental space'.

3. Real 5-space is presided by transcendental Lord Shiv.

4. Hyper cube 5 is the representative regular body of 5-space within 4-space.

5. Idol of Lord Shiv preserves the values and virtues of transcendental space in its manifested form within 4-space.
6. Glimpsing and imbibing of the format features and values of Idol of Lord Shiv shall be helping to melt the mental block because of reality of 4-space format.
7. Transition from format of idol of Lord Brahma to the format of idol of Lord Shiv is going to be the basic learning step for transiting from the mental state of 4-space reality for acquiring transcendental mental state of the Existence Phenomenon along transcendental domain (5-space domain).
8. This brings us face to face with 5-space content (transcendental content).
9. Mathematics of 5-space is the basis base of 5-space mathematics science and technology with it, naturally our learning focus during this year is going to be of the range of format feature and value of 5-space mathematics science and technology.
10. One shall recapitulate format feature and values of 4-space mathematics science and technology.
11. 5-space reality deserves to be comprehended and appreciated in continuity of 4-space reality.
12. 4 fold format of hyper cube is to sequentially takes us form the set up of hyper cube 4 to hyper cube 5.
13. It is the solid order of transcendental domain (5-space domain) which is to distinguish 5-space mathematics science and technology from spatial order 4-space mathematics science and technology

14. That way, as the focus during previous year learning about 4-space reality being upon spatial order, a step head, during present year learning, the focuses is going to be solid order.
15. Further, during previous year course of real 4-space, the basic format has been of 4 folds manifestation layer by during present year course of 5-space reality, focus is going to remain upon 5 fold transcendence ranges.
16. It would be relevant to take note that first four folds of 8 transcendence range remain the same as four folds of a manifestation layer and the fifth fold is going to be the base fold.
17. Five folds of transcendence range of a 8 transcendence range are of sequential dimensional order.
18. Space content of 5 consecutive dimensional spaces manifests a transcendence range of 5 folds, namely (i) Dimensional fold (ii) Boundary fold (iii) Domain fold (iv) Origin fold (v) Base fold.
19. In the continuity of same the 6 fold namely format fold extends a transcendence range format into a self-referral range format, about which we shall be learning during next year course of 6-space reality.

■

LESSON-24

TRANSCENDENTAL REALITY GENERAL

1. Manifestation is the reality of 4-space.
2. Transcendence at the origin fold for its reach up-till base fold is the reality of 5-space.
3. Manifestation is a four folds reality.
4. Transcendental reality is of 5 folds.
5. 4-space body has a degree of freedom of motion in 5-space.
6. 4-space content manifests domain fold of hyper cube 4, while 5-space content manifests the domain fold of hyper cube 5.

∎