Sri – Om
VEDIC MATHEMATICS AWARENESS YEAR

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'Credit goes to Swami Bharti Krshna Tirtha Ji Maharaj to focus the attention of present generation about the values of Ganita Sutras (mental Mathematics Sutras)'

All are invited to join Awareness program

All are warmly invited to join the awareness program of Vedic Mathematics. All teachers, parents and students are invited to Learn and Teach Vedic Mathematics for proper intelligence growth at School.

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ISSUE NO 53

Page
Chapter – 5 1-5
Ten place value format and
five place value format

VMS & T Project
School Text Books
(Class IX, X, XI & XII)

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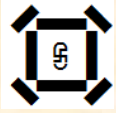
VMS & T Text Book Class XI
(5-space)

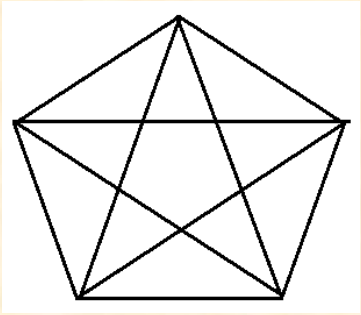
Chapter - 5
Ten place value format and five place value format

1. Domain and Boundary Ratio of hyper cube 5 (A^5:$10B^4$), simultaneously coordinate ten place value format (at boundary) and five place value format (at domain).
2. Origin of 4-space / center of hyper cube 4 / origin fold of manifestation layer (of hyper cube 4 lead to 5-space format for the origin / center.
3. Origin of 4-space / Center of 4-space body, as such is of dual status, firstly being the point of 4-space domain and secondly being of the features of 5-space.
4. Parallel to line (length) being of zero area, surface (area) being of zero volumme, solid body being of zero hyper volumme (of 4-space), 4-space bodies as well shall be having zero transcendental (5-space) value.

Five space as origin fold	Center of hyper cube 4
	

5. Creative (4-space) boundary of transcendental (5-space) domain being of 10 components, together leading to the set up of ten zero value transcendental (5-space) points
6. This shall be leading us parallel to $10^0=1$
7. A step ahead, the emergence of transcendental (5-space) domains at origin / center of 4-space / hyper cube 4, as such shall be leading to simultaneous emergence of 10 hyper cubes 5
8. One may have a pause here and take note that this emergence shall be leading us to value 10^1.

9. The sequential steps ahead shall be leading us to the value 10^2. And this sequential emergence would be parallel to ad-infinitum unfoldment of a format parallel to ten place value format.
10. One may have a pause here and take note that the coordination of each corner point of pentagon with every other corner point of pentagon shall be constructed a pentagon within a pentagon.



11. This as such shall be leading to ad-infinitum constructions of pentagons. In the light of these formats and features.
12. One may chase 10 place value format and 5 place value format to have comprehension and insight about their inter-relationship and coordinated emergence.
13. Double digit numbers of ten place value system permit organization along 9 x 11 grid // matrix format as under

01	02	03	04	05	06	07	08	09
10	11	12	13	14	15	16	17	18

19	20	21	22	23	24	25	26	27	
28	29	30	31	32	33	34	35	36	
37	38	39	40	41	42	43	44	45	
46	47	48	49	50	51	52	53	54	
55	56	57	58	59	60	61	62	63	
64	65	66	67	68	69	70	71	72	
73	74	75	76	77	78	79	80	81	
82	83	84	85	86	87	88	89	90	
91	92	93	94	95	96	97	98	99	100

14. Double digit numbers of 5 place value system permit organization along 4 x 6 grid / matrix format as under

01	02	03	04	
10	11	12	13	
14	20	21	22	
23	24	30	31	
31	32	33	40	
41	42	43	44	100

15. It would be a blissful exercise to have values along ten place value format for first 25 double digits numbers of five place value system.
16. The comparative table would emerge as under :

Number of 5 place Value system	Value of ten Place value system
01	01
02	02
03	03
04	04
10	**05**
11	06
12	07
13	08
14	09
20	**10**
21	11
22	12
23	13
24	14
30	**15**
31	16
31	17
32	18
33	19
40	**20**
41	21
42	22

43 44 **100**	23 24 **25**

17. It would be relevant to note that the values (10, 20, 30, 40) of five place value system are accepting ten place values as (5, 10, 15, 20) while the value (100) of five place value system as equivalent ten place value 98 being 25.
18. The above features deserve to be properly appreciated for their imbibing to have insight about these pair of place value system ‘
19. Further to have about the transcendental (5-space) domain one may chase the same in terms of five linear set ups, five spatial steps and five solid steps.
20. Linear dimension synthesis values for single, double, quadruple and penta linear dimensions comes to be as under :-

Sn.	Number of Linear dimensions	Dimensional Synthesis values
1	0	(0) = 0
2	1	(1) = 1
3	2	(1, 1) = 3
4	3	(1, 1, 1) =6
5	4	(1, 1, 1,1) =10
6	5	(1, 1, 1,1,1) =15

21. Spatial dimension synthesis values for single, double, quadruple and penta linear dimensions comes to be as under :-

Sn.	Number of Spatial d dimensions	Dimensional Synthesis values
1	0	(2) = 0
2	1	(2) = 2
3	2	(2, 2) = 4
4	3	(2,2, 2) =6
5	4	(2,2, 2, 2) =8
6	5	(2,2, 2, 2, 2) =10

22. Solid dimension synthesis values for single, double, quadruple and penta linear dimensions comes to be as under :-

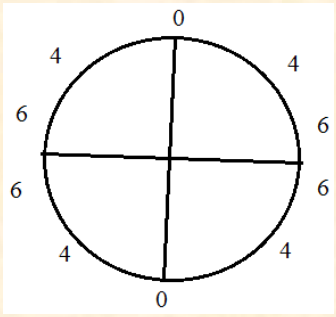
Sn.	Number of Spatial d dimensions	Dimensional Synthesis values
1	0	(3) = 0
2	1	(3) =3
3	2	(3, 3) = 5
4	3	(3,3, 3) =6
5	4	(3,3, 3, 3)=6
6	5	(3,3, 3, 3, 3) =5

23. As origin fold of transcendental (5-space) domain is a seat of 6-space, which accepts creative (hyper order 4)/ 4-sppace in the role of dimension and as this hyper order get

super imposed upon the solid order, as such it would be blissful chase synthesis values of hyper dimensional order.

Sn.	Number of Spatial d dimensions	Dimensional Synthesis values	
1	0	(0) = 0	
2	1	(4)= 4	
3	2	(4, 4) = 6	
4	3	(4,4, 4) =6	
5	4	(4,4, 4, 4) =4	
6	5	(4,4, 4, 4, 4) =0	

24. One may have a pause here and take note that creative (hyper order 4) leads to synthesis value range (0, 4, 6, 6, 4, 0).
25. It is of a parabolic format permitting split as a pair of half ranges of reflection pairing format [(0, 4, 6), (4, 6, 0)].
26. One shall have a pause here and permit the transcending mind to be face to face with this feature of transcendental (5-space) domain.
27. Here one may further have a pause and take note that the creative boundary (4-space) as boundary of transcendental (5-space) domain permits its split into ten creative (4-space) components.
28. As the synthesis value of five dimensions of order 4 comes to be '0', as such the split of the boundary into two halves of the set up (4, 6, 6, 4, 0, 4, 6, 6, 4, 0).
29. It would be blissful to chase this cyclic organization which permits placement as under:



30. These features lay the foundation for the emergence of SKY within space along the format of transcendental (5-space) domain fulfilling the REGION in between the pair of hemispheres.

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