Sri – Om
VEDIC MATHEMATICS AWARENESS YEAR

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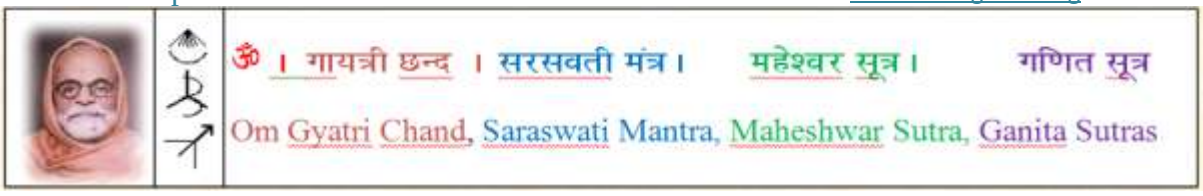

Formation of
VEDIC MATHEMATICS SCIENCE AND TECHNOLOGY
UNIVERSITY

EXISTENCE WITHIN FRAMES

1.Values Essence Chase

II
Squares and Cubes

1. TCV (वर्ग) = 14 = TCV (घन)
2. 14 = 2 + 3 + 4 + 5 and parallel to it is the four fold manifestation layer (2, 3, 4, 5) of hyper cube 4, the representative regular body of 4-space / creator's space (4-space).
3. The format and features of hyper cube 4 are parallel to the format and features of hyper cube 4 itself.
4. As such the manifestation of four consecutive dimensional space contents as four consecutive manifestation folds of hyper cube accept format and features of IDOL of Lord Brahma, the four head creator the supreme.
5. One may have a pause here and take note that domain fold as third fold of manifestation layer permits expression as $n \times n \times n / n^3$, for all values of n.
6. One may have a pause here and take note that the \
   i. $1^3 = 1^2$
   ii. $1^3 + 2^3 = (1+2)^2$
   iii. $1^3 + 2^3 + 3^3 = (1+2+3)^2$
   iv. $1^3 + 2^3 + 3^3 + 4^3 = (1+2+3+4)^2$
   v. $1^3 + 2^3 + 3^3 + 4^3 + 5^3 = (1+2+3+4+5)^2$
   vi. $1^3 + 2^3 + 3^3 + 4^3 + 5^3 + 6^3 = (1+ 2+ 3+ 4+ 5+ 6)^2$
   vii. $1^3 + 2^3 + 3^3 + 4^3 + 5^3 + 6^3 + 7^3 = (1+ 2+ 3+ 4+ 5+ 6+7)^2$
7. One may have a pause here and take note that along (n, n + 2) format of (n –space as dimension, n + 2 space as domain, the above values as dimension values shall be leading to their respective domain values while having addition of '2'.

8. Illustratively $1^3 + 1^2 = 1$ as dimension fold shall be leading to 1 + 2 = 3 as the domain value.
9. A step ahead $1^3 + 2^3 = 1 + 8 = 9$ as dimension fold shall be leading to 9 + 2 = 11 as the domain value.
10. A step ahead $1^3 + 2^3 + 3^3 = (1+2+3)^2 = 1+ 8 + 27 = 36$ as dimension fold shall be leading to 36 + 2 = 38 as the domain value.
11. A step ahead $1^3 + 2^3 + 3^3 + 4^3 = (1+2+3+4)^2 = 1 + 8 + 27 + 64 = 100$ as dimension fold shall be leading to 100 + 2 = 102 as the domain value.
12. A step ahead $1^3 + 2^3 + 3^3 + 4^3 + 5^3 = (1+2+3+4+5)^2 = 1 + 8 + 27 + 64 + 125 = 225$ as dimension fold shall be leading to 227 as the domain value.
13. A step ahead $1^3 + 2^3 + 3^3 + 4^3 + 5^3 + 6^3 = (1+2+3+4+5+6)^2 = 1 + 8 + 27 + 64 + 125 + 216 = 441$ as dimension fold shall be leading to 443 as the domain value.
14. A step ahead $1^3 + 2^3 + 3^3 + 4^3 + 5^3 + 6^3 + 7^3 = (1+2+3+4+5+6+7)^2 = 1 + 8 + 27 + 64 + 125 + 216 + 343 = 784$ as dimension fold shall be leading to 786 as the domain value.
15. One may have a pause here and take note that the $1^2 = 1$ as dimension value shall be leading to 1 + 2 = 3 as domain value.
16. $2^2 = 4$ as dimension value shall be leading to 2 + 4 = 6 as domain value
17. $3^2 = 9$ as dimension value shall be leading to 9 + 2 = 11 as domain value.
18. $4^2=16$ as dimension value shall be leading to 16 + 2 = 18 as domain value.
19. $5^2=25$as dimension value shall be leading to 25 + 2 = 27 as domain value.
20. $6^2=36$ as dimension value shall be leading to 36 + 2 = 38 as domain value.
21. $7^2=49$ as dimension value shall be leading to 49 + 2 = 51 as domain value.
22. One may have a pause here and permit the transcending mind to be face to face with above inter relationship of dimension fold and domain fold values for linear, spatial and solid orders
23. One may further have a pause here and take note that interval is a set up of three components (two end points and one linear unit) while interval of two parts is a set up of five components, interval of three parts is a set up of seven components and so on.
24. This sequential array of values (3, 5, 7, 9, 11, ---) as such is of the format of a reach from dimension to domain and domain as a dimension to domain ahead, and so on.
25. One may further have a pause here and take note that square is a set up of 9 components (4 corner points, 4 boundary lines and 1 surface area) while a synthetic set up of a pair of squares is of 9 + 6 = 15 components.
26. Still further cube is a geometric set up of 27 components while synthetic set up of a pair of cubes is a set up of 27 + 18 = 45 components.
27. One may further have a pause here and take note that value $(1 + 2 + 3 + \text{---} + n) + n + 1 + \text{----}$ n x n = n^2).
28. Still further the arrangement of n rows and n columns, as under along n x n format as the total summation value n x n x n = n^3:

1	2	3	---	--	n
2	3	4	---	--	n + 1
3	4	5	---	--	n + 2
---	--	--	--	--	--
n	n+1	n+2			2n-1

29. Still further it would be relevant to note that square is a representative regular body of 2-space and is of format and features of hyper cube 2 as a four fold manifestation layer (0, 1, 2, 3).
30. Cube is of the format and features of hyper cube 3 of a four fold manifestation layer (1, 2, 3, 4), the boundary fold of square is a set up of four boundary

components which accept re-organization as 4 = 1 + 3.

31. Cube is a geometric set up enveloped within boundary of 6 surface plates which re-organization as 6 = 2 + 4.
32. One may have a pause here and take note that above organization (1, 3) and (2, 4) are parallel to the format (n, n + 2) / (dimension fold, domain fold)
33. Still further, it also would be relevant to note that 2n = (n-1) + (n + 1) shall be leading to (n-1) x (n + 1) grid format.
34. One may further have a pause here and take note that (n – 1) x (n + 1) grid format shall be accommodating arrangement organization for all the double digit numbers of n place value system.
35. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of deep trans and to be face to face with above formats, features and values of squares and cube, individually as well as simultaneously.
36. Here It would be relevant to note that NVF (Square) + NVF (Cube) = NVF (Mathematics)
37. Still further as that TCV (वर्ग) + (घन) = TCV (अतिवाहक)

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