

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

By Dr. S. K. Kapoor

**TRANSITION FROM HYPER CUBE 3 TO HYPER
CUBE 4**

This day the course focus is upon ‘Transition from hyper cube 3 to hyper cube 4’. It four folds aspects being taken up are as follows:

25. General
26. Real 4-space
27. Transition from hyper cube 3 to hyper cube 4.
28. Seventh version of cube

The values being covered are to be taught as lessons numbers 25 to 28 to the students of 4-space Vedic Mathematics, Science & Technology.

LESSON-25

GENERAL

1. Second phase learning and teaching focus upon number value ‘4’ / 4-space / hyper cube 4 format.
2. Previous first phase focus upon the number value ‘3’ / 3-space / hyper cube 3 format.

3. Focus of sub sequent two phases (third and fourth phase) of learning and teaching would be upon number value '5' / 5-space / hyper cube 5 and number value 6 / 6-space/ hyper cube 6 formats, respectively.
4. Number value '4' is the first composite number. It has unique feature, which amongst others, are as under:
 - (i) $2+2 = 2 \times 2 = (-2) \times (-2)$.
 - (ii) $2^4 = 4^2$.
 - (iii) $(2 \times 2 \times 2) - (-2+2+2) = 2$
 - (iv) $(2N) \times (2N+2) \times (2N+4) = (2^4 \times M)$ for all natural numbers values of N and M.
5. 4-space is a spatial order space (2-space plays the role of dimension of 4-space).
6. 4 dimensional frame is a set up of 4 spatial dimensions.
7. Hyper cube 4 is the representative regular body of 4-space.
8. Hyper cube 4 is a 4 folds manifestation layer (2, 3, 4, 5)/ (2-space as dimension, 3-space boundary, 4-space domain, 5-space as origin).
9. 4-space is designated as creator's space.
10. Lord Brahma is the over lord of 4-space.
11. Idol of Lord Brahma is of format feature parallel to format feature of hyper cube 4.
12. Lord Brahma is presiding deity of measure of Sathapatya measuring rod.
13. Lord Brahma is a four head Lord.
14. Each head of Lord Brahma is equipped a pair of eye.
15. Lord Brahma sits gracefully upon lotus seat of 8 petals and meditates gracefully with in cavity of his own heart.
16. Within cavity of heart Lord Brahma is the seat of transcendental Lord Shiv.

17. Transcendental Lord Shiv is a five head Lord with three eyes equipped in each head.
18. With the grace of transcendental Lord Shiv Lord Brahma multiply as ten Brahmas.
19. This is parallel to 4-space playing the role of creative boundary of 10 components of transcendental domain (5-space).
20. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse and imbibe the format feature values of above phenomenon of 4-space.



LESSON-26

REAL 4-SPACE

1. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse and imbibe the existence of real 4-space.
2. The space around us is a real 4-space with a compactified range of origins.
3. With the real 4-space, 3-space bodies have a degree of freedom of motion which manifest as 13th edges of 12 edged cube.
4. The solid boundary of 8 components of hyper cube 4 accepts fixation in terms of $8 \times 4 = 32$ coordinates of 4 dimensional frames.
5. Mana-Sara, the scripture of Sathapatya up-Ved of Arthrav-Ved preserves the manifestation feature of 4-space body set up being of 32 external god and 13 internal god.

6. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse and imbibe the above feature of the set up of hyper cube 4.

LESSON-27

TRANSITION FROM HYPER CUBE 3 TO HYPER CUBE 4

1. Hyper cube 3 (cube) has 7 versions parallel to 7 geometries range of 3-space.
2. Hyper cube 4 has 9 versions, parallel to 9 geometries range of 4-space.
3. The simultaneous existence of existence during manifestation of hyper cube 4 as 3-space in the role of boundary and 4 –space in the role of domain gives a range of $7 \times 9 = 63$ unit set ups.
4. One may have a pause here and take note that the solid boundary accepts fixation in terms of 32 coordinates within 4 dimensional frames.
5. Further as that, 32 points range covers 31 units range.
6. This as such, brings in the complete range of points and gaps being of value $32+31 = 63$.
7. One shall further have a pause here and take note that value $32 = 2^5$ which is parallel to 32 combination of choices from the range (1, 2, 3, 4, 5, 6) of summation value 6 in each case.
8. Still further, $32-1 = 31$ is a prime.
9. Further as that cube with its 3 dimensional frames is a structural set up of 31 components (8 corner points, 12 edges, 6 surfaces, 1 volume, 3 axes and 1 origin (center)).

10. Further as that, 3-space has dimension leads to 6-space as origin of 5-space within creative boundary of 10 components.
11. Still further, as that the third perfect number (496) accepts 9 proper divisors (1, 2, 4, 8, 16, 31, 62, 124, 248) with '31' as the biggest prime divisor of prime proper divisor of '496'.
12. One may have a pause here and take note that 4-space has 9 geometries range, parallel to which are 9 version of hyper cube 4.



LESSON-28

SEVENTH VERSION OF CUBE

1. Seventh version of cube is free of all its boundary components.
2. This existence of (7th version of cube) within 4-space is their because of 3 dimensional frame of linear dimension, as well as, 3 dimensional frame of spatial dimensions being their integrating the domain of 3-space body (7th version of cube) as a body of 7th geometry of 3-space.
3. One may have a pause here and take note that 4-space is a spatial order space (2-space in the role of dimension of 4-space).
4. 2-space accepts a Sathapatya measuring rod synthesized by hyper cube 1 and hyper cube 2.
5. It would be a blissful to take note that manifestation of interval and square within a square, will, that way will further manifest interval and square within interval square.

6. Now, let us revisit the set up of 7th version of cube.
7. It is integrated because of a pair of 3 dimensional frame of linear and spatial dimensional respectively.
8. This pair of 3 dimensional frames of 3 linear dimensions and 3 spatial dimensions, with common origin at centre of the cube, as such shall be leading to 13 structural components namely, 1 origin, 6 half linear dimensions, 6 half spatial dimensions.
9. Further as that, the super imposition of linear dimensional frame upon spatial dimensional frame shall be leading to 19 structural components namely (1 centre, 6 half linear dimensions, 12 quarter squares / spatial dimensions).
10. One may have a pause here and take note that this leads to $13+19 = 32$ structural components for interval and square within the interval square while interval will have additional 13 structural components.
11. This will takes us to and total of $13+32 = 45$ structural components, which is parallel to the preservation of Mana-Sara as of 13 interval god and 32 external god.

