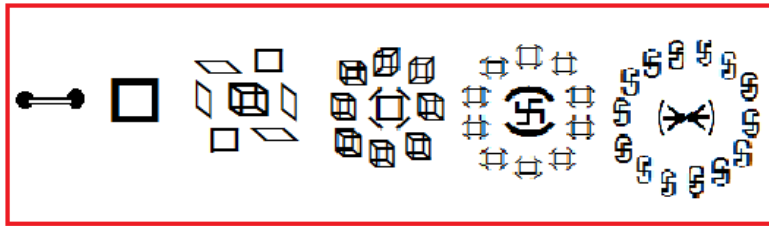


VEDIC MATHEMATICS

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MODERN MATHEMATICS

SATHAPATYA MEASURING ROD



(HYPER CUBES 1 TO 6)

Seventh Week : Day 3

Frames, frames of dimension,
boundary fold and dimensional frames y

1. Frames, frames of dimension, boundary fold and dimensional frames are the basic concepts.
2. It is expected that 10 + 2 class pass out are fully comprehending and properly appreciating these 4 concepts: (i) Frames, (ii) frames of dimension, (iii) boundary fold and (iv) dimensional frames.
3. In the context of 3-Space we are acquainted with a three dimensional frame as a set up of three linear axes joined at common origin (point).
4. This is the internal frame as the origin of this frame gets super imposed upon the center of cube / center of sphere / origin of 3-Space.
5. As comparison to this internal dimensional frame of 3-Space / cube / sphere, there is external frame for solids which expresses itself as boundary fold / boundary of cube / sphere / solids.
6. In reference to cube, it marks its presence as a synthetic set up of six surface plates.
7. Therefore there are two types of frames namely (internal (dimensional frame) frame and external (boundary fold) frame.
8. Here in the context of a dimensional frame, each dimension (axes) itself as well accepts the format of 'interval' which brings us face to face with its end points, which as such constitute a frame of the dimension (axes).
9. Let us have a pause here and have a revisit to the concept of frame.
10. Further let us revisit two types of frames, namely internal dimensional frame and external boundary frame (fold).

11. Let us further revisit the frame of dimension.
12. It would be blissful to revisit the set up of hyper cube-4 and to comprehend its internal and external frames, as well as the frame of its dimension.
13. Let us have a pause here and take note that 2-space plays the role of dimension of 4-Space.
14. As such the frame of this spatial dimension of 4-Space is constituted by 1-space content as a linear boundary of four components.
15. The internal dimensional frame of 4-Space is a set up of four spatial dimensions.
16. The external frame (boundary fold of 4-Space) is the set up of solid boundary of 8 components
17. Likewise the internal dimensional frame of 5-Space is a set up of five solid dimensions.
18. The external frame of 5-Space is a creative boundary (4-Space as boundary) of 8 components.
19. The frame of dimension of 5-Space is a spatial as that 2-Space plays the role of boundary of 3-Space.
20. A step ahead, the internal dimensional frame of 6-Space is the set up of 6 creative (4-Space) dimensions.
21. The external frame (boundary fold) of 6-Space is transcendental (5-Space) of 12 components.
22. The frame of creative (4-Space) dimension is a solid as that 3-Space plays the role of boundary of 4-Space.
23. One shall sit comfortably and revisit the internal and external frames as well as frames of dimensions of all the six components with hyper cube-1 to 6 of Sathapatya measuring rod.

