

The Fourth Dimension

by John

Many fourth dimensions to be named,
Many concepts to be explained.

An interesting world where things are not as simple as they seem,
Trying to escape is harder then you think.
A house in the fourth dimension is quite a sight, taking up the space for
One lot, but having many, many rooms inside. How does one escape?

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The fourth dimension is tricky you will find, slicing shapes,
One gets results that they did not expect.
But that is only half the fun, guessing what the shapes are by different
Slices, that is where the challenge is in the wonderful world of the fourth dimension.

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The first of our four objects we have in sight, it looks pretty neat, but let's see
The trouble that it can create, when we slice and we dice
And we just plain mutilate.
Destruction is fun, but let's try and see what it is we destroyed.

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The first and fifth levels of slicing are the same (minus one being colored in),
They must match on the top and the bottom.
What happens with those slices is pretty neat,
A single circle or a dot is what you get.

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The three in the middle all look similar,
They are the same sphere, but the middle one is bigger.
All these spheres are driving me crazy,
Alas our shape in the fourth dimension is a hypersphere.

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Mystery object number two is a little easier, all of them are the same shape,
But some are filled in and some are not, but that does not matter.
It is pretty easy to see what the shape is to be,
Why it is a hypercube, but not done by Amber.

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The third of the four objects in the fourth dimension dissecting class,
Is again all the same, imagine that? All five levels show
That a single dot is what you get, but what do you expect
When you are slicing a line, a hyperellipse?

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The final object on display, has four similar levels and one unique.
The first one is a simple dot, no more or no less, the rest are all
Pyramids, getting bigger each time, the last one filled in no less.
The answer is rather easy to see, a hyperpyramid for you from me.

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The fourth dimension can be a pain, how many shapes
Different shapes can you name?
I know what I want my fourth dimension to be
Not a shape at all but a concept: time.

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