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SIMPLE NUMBERS

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(By W.R. Hounsell, Refugio-Texas-USA. A Scientific Treatise) 6/22/1958.

Beginning in the dawn of culture, the following quotations are all attributed to Pythagoras, and taken from the research files of Hobart Huson.

To give proper significance to the text, they should be borne in mind.

QUOTES.

"The whole heaven is harmony and number"

"There is but a single cosmic substance, of which all things have been formed".

"All things are assimilated into Number; all things accord with Number".

"The sphere is the most perfect form of solids. It holds the principle of the Divine Quaternion. It's surface is fourfold the area of it's Great Circle.".

"There is naught in this world that is not of consequence and that does not set in motion Cycles which affect all else".

Beside these and many other quotations, we also find that the ancient Pythagorians swore by their "holy tetractys", which was a triangle of dots; four dots to the side and one in the center. The pattern is the same as the pins in a modern bowling-alley, to clarify the picture.

In this tetractys the total number of dots is ten, the basis of our metric-system. In this system there is no limit to the amplifications or to the decimation of quantity and number.

The number 4 was called "justice", because it was the product of equals and the first square number. In the sequence -3.4.5.--we find that 3^2 plus 4^2 equals 5^2 which brings us to the Pythagorean Theorem.

"The square on the hypotenuse of a right-angled triangle, is equal to the sum of the squares on the other two sides." Thus it is that in modern construction and architecture, the triangle whose sides are 3.4. and 5 units in length, will produce the required right-angle.

Thus the number 4 gives us 4 right angles within the circle, the 4 points of the compass, the 4 triangles of the pyramid, the 4 seasons of the year etc, and therefor it became sacred and mysterious to the Pythagoreans.

The number 4 became fixed in men's minds; four legs, four walls, four fingers; four wheels; it was a natural number. It was natural for the ancients to believe in the four winds, the four corners of the Earth, etc. Today even, we make four corners and four sides to nearly everything we devise. Our States, our fields, city blocks and lots; our tables, chairs, beds, carpets and linens, doors and windows. They all have four corners and four sides, as does this sheet of paper even. We begin to see why the "Tetractys" of Pythagoras was made sacred by him.

When Pythagoras discovered that the surface area of a sphere was equal to four times the area of the great circle, he reasoned that the universe must be governed by simple number. Then when his musical string developed a harmonious octave by simple division, he was fairly sure of it.

It has taken us 2000 years of scientific study to finally realize the truth of his theory of simple number. As science progresses we find that our most complicated formulae and calculations are again simplifying themselves. Einstein's mysterious equations for energy, mass, velocity and relativity are simplicity themselves, in numerical construction.

So sure was Mendelejeff that "All things accord with number" that he formulated his simple Periodic System, in which all elements of the universe have a place and a number. Hydrogen is still No. 1. and Uranium -92, for example. But in his day only about half of the present 100 elements were known, and none of the isotopes.

So perfectly did the properties of the known elements fit into this numerical system, that Mendelejeff was able to correctly predict almost all of the subsequent elements. He provided a blank space and a number, which were already waiting for each future discovery. No longer was research haphazard, Now it had a definite plan---"find number 37-Rubidium; or find number 88-Radium" for example.

Number 6, is Carbon, the element through which all living creatures receive their life. It is no atheistic coincidence that Carbon happens to be quadravalent. This means that it has four arms of attraction called "bonds". It combines powerfully as an atom, with 4 atoms of monovalent elements such as hydrogen. With 4 hydrogen atoms attached, Carbon forms the molecule Methane, the chief component of natural gas.

This life-giving Carbon atom, with its 4 bonds, gives birth to myriads of combinations with other plentiful elements such as hydrogen, oxygen, nitrogen, and chlorine, It is the mother of organic-chemistry, the corner-stone of organic or carbon-compounds. More carbon compounds have already been isolated than those of all other elements put together, and millions more are possible. All because of the 4 powerful bonds of Carbon.

During the Dark Ages, Science had been so persecuted that it had degenerated into nothing more than legerdemain, wizardry and sorcery. Research had to be done in secret, under great handicap and peril, so that within the next several centuries, science was a tangled maze of loose ends.

Not until 1803 did John Dalton decide to start all over again from the Pythagorean "atomistic" system of the monobasic "cosmos". Quoting the Encyclopedia Britannica--"Dalton converted the vague atomistic theory of the ancient Greeks, into a highly valuable scientific asset by means of the concept of "atomic weights". The chemical atomic theory thus initiated has been since strengthened by modern investigation, and is today entrenched in a well-nigh impregnable position.

It seems unbelievable that 22 centuries of time could have been completely wasted before the significance of the "cosmic" and "atomistic" concepts were finally understood. But such is the case, before the universal Truth was again restored and the numerical harmony of everyone and everything again realized.

We learn more from the "holy tetractys" of Pythagoras, the further we examine the planetary structure of the tiny atom itself. Around the protonic nucleus of the atom, electrons travel in fixed orbits in beautiful pattern and in simple harmony. Once again this simple harmony is the number 4.

For this reason this orbital harmony is called the Quantum Theory, in nuclear physics. The electronic orbits within the atom each contain a fixed number of electrons and the orbits are set at fixed distances from the center. There are also a fixed number of orbits at each distance or level (each quantum).

The element -- Number 79 -- is Gold, for instance. In this atom of Gold then there will be 79 protons in the central nucleus and 79 electrons in orbit at the various levels.

At the first level will be 2 electrons in 1 orbit. At the 2nd level there will be 2 in one orbit and 6 in another. At the 3rd level will be 2 in the first, 6 in the second and 10 in the third orbits. At the 4th level will be 2 in the first, 6 in the 2nd, 10 in the 3rd and 14 in the 4th orbits. This fixed system is maintained until all 79 electrons have been accounted for, in this atom of Gold.

This Quantum Theory holds true for all elemental atoms, as against the old Dalton atomic weights, which show several exceptions. The whole of the electron system is based upon the simple progression of 4, the quantum, or as the Pythagoreans believed, "the mysterious tetractys".

The number of electrons in the successive atomic orbits increase as shown, from 2 to 6 to 10 to 14; a simple progression of 4. By means of the spectra of light, heat and radiation this theory was derived, and the progress of the entire universe seems to be controlled by this system.

It might be interesting to note in passing, that Helium has an atomic weight of 4. It is non-flammable and inert, since it will not combine with oxygen. It will not combine with anything for Helium is apparently completely self-sufficient. The Helium atom has 2 protons plus 2 electrons; an independent entity of 4.

Thus it appears that as we advance from popular-physics into nuclear - physics our astronomical formulae resolve into the simple harmonies of Pythagoras. In advanced mathematics we apply quadratures and quadratic equations, and the simple Pythagorean Binary System of unities, is now the principle in all of our calculating machines and electronic computers.

In popular-physics we used length, breadth and depth by which to define a solid object. Now, by means of the "4th dimention", which introduces the time-element, position is added, and thus a more accurate definition obtains.

There seems to be little doubt, that in the final analysis, the "holy - tetratrys" is indeed a Divine power.
