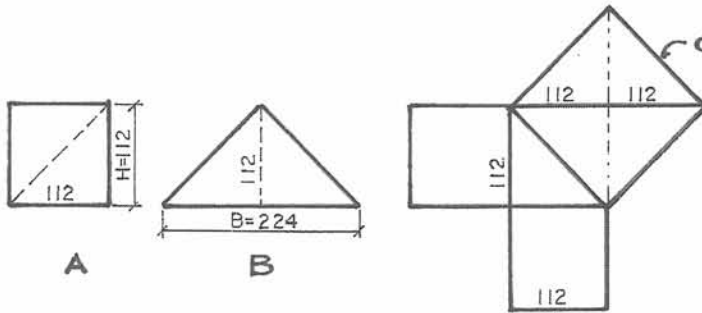
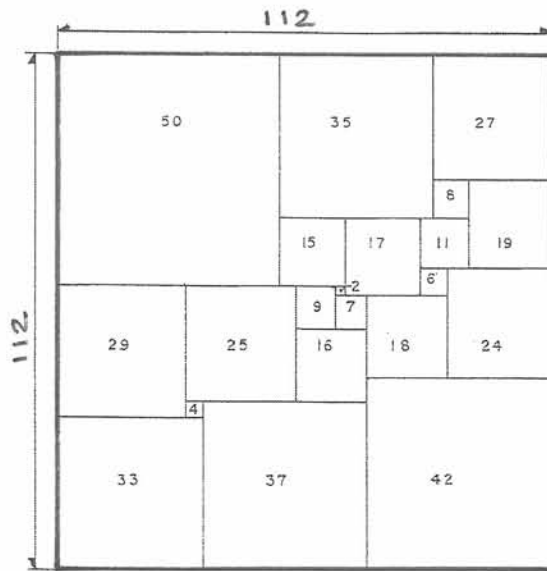


The Square Root of 2



The Square Root of 12544 and 25088



The Least Number of Squares

The listed numbers represent the side length of each square.

Proof That the Square Area of 2 Is Not Irrational

For this proof we use the geometry of square root triangles, as a triangle where $\frac{1}{2}$ of the length of the base of that triangle equals the height of that triangle, that triangle has a square root.

Our (A) Illustration is a one by one square constructed from (B) our square root triangle where our base equals 2 and our height equals 1.

Our geometry illustration (C) gives us our two 1 by 1 squares (triangles) that gives us our square of area 2 as (C) contains our 2 square root triangles of $\frac{1}{2}$ base times height.

We can now show that instead of an irrational number we have both a finite and infinite result.

If we square our calculation for the square root of 2 our result is 1.9 where our 9 continues to repeat giving us an infinite result rather than an irrational, as our infinite repeating 9 is equal to one.

This is proved with our square area of 25088. Proven again by our application of square root triangles as 2 square root triangles of $\frac{1}{2}$ base times height gives us the square area of 25088.

Just as with the square area of 2, when we get the square root of 25088 and then multiply that result we have 25087.9 where our repeating nines total one giving us 25088 an infinite application rather than an irrational as there exists for squaring no number times itself that equals 8. Our last integer of 25088.

So then, what is the importance of our infinite set of repeating nines. Our finite time integers are 1, 2, 5, 7, and 8 that total 27. Then when we apply the Riemann Hypothesis of

reducing to a single integer by addition $27 = 9$, nine being our integer representing an infinite process, 9 is also a transformation integer and our integer for anti-gravitation. 3 applications as $3 \text{ squared} = 9$.

Now the smallest unit of time is 42 decimal places. So that 42 times $9 = 378$, the Higgs Mass when we add the 9 zero's of the Riemann Hypothesis. Likewise with $9 \text{ squared} = 81$ that represents the mass of the W^- and W^+ particles when we add the Riemann Zero's as GeV is 1 billion electron volts (9 zeros) added to our 2 and 3 dimensional numbers 81 and 378. Our W^- and W^+ particles are required for mass transformations.

We call 378 our Plank Mass as it is related to our infinite repeating decimals of $1/7$, $2/7$, $3/7$, $4/7$, $5/7$, and $6/7$, as each 6 divisions of these decimals contain our finite time integers 1, 2, 4, 5, 7, and 8, that total 27.

There are 14 sets of 27 in 378 that are related to our Poincare Illustration one shown in "Pure Math Theory".

These 14 sets relate to our $11 \frac{1}{2}$ time wave structures, and our 2 vacuum spheres, within our largest sphere.

For each separate one half of our universe we divide 378 in half giving us 189 that applies to matter and anti-matter for each half of our universe, separated by our negative time area.

There are 7 sets of 27 in 189. In "Pure Math Theory" we show how 27 breaks up into 15 then 12 GeV for the construction of the carbon 12 atom. Remember we add the 9 zeros of our Riemann Hypothesis to obtain GeV.

Now with our Riemann Hypothesis of reducing to a single integer by addition $378 = 18 = 9$.

Our dual number 18 is related to our Dual Constructed Universe as it gives us our 18 Perimeters of Particle Physics that we will show later in "Pure Math Theory." We will also show the results of the "Least Number of Squares" related to the structure of our universe.

Our repeating 9 that also represents an infinite process gave us the solution to the "P versus NP Problem."

Our square root applications to 12544 and 25088 gave us both finite and infinite applications to our universe, as we have an infinite standing universe created in a finite time: infinite in duration, yet finite in extent.

Our triangle square root of one is related to Photons (spin of one) as Photon charges made the transformation to particle charges in transit according to the 2 directions of time shown in our Poincare one illustration, proving "No Big Bang".

The Photon charge is calculated by 3 to the fifth power giving us our denominator of $1/243$ of the charge of the electron, as five forces and 5 dimensions were used for the construction of the universe, then $243 = 9$, representing an infinite process, anti-gravitation and our transformation integer.

Our (D) illustration shows how our square root triangles give the number of parts that gives us the square areas of every countable number in rotation.

This illustration gives us a straight line application of a Wave Structure that extends into each half of the universe as our matter parts are related to our antimatter parts, the wave structure of our Poincare one illustration.

When you make a particle measurement you collapse the wave structure as proven in quantum mechanics (waves between waves). Next we will prove that the present day calculation for $P1$ is incorrect, as the correct ratio has many applications to the structure of the universe.

3, $P1$ for time when squared, cubed then to the fourth and fifth powers gave us 9, 27, 81, 243 that we gave application to where our 2 and 3 dimensional numbers reduce to nine, our integer for an infinite process $27 = 9$, $81 = 9$, and $243 = 9$, for an infinite standing universe. Here again, we can say thanks to the relativity of numbers. Next we will prove that $P1$ is not what they claim.

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See: puremaththeory.com