Hello Everyone,

In my last email, I have already explained the childhood development module.   The next two modules, the **one dimensional** module and the **two dimensional** module will be explained here today.

We are still using the number concept to explain how to open our mind.

Please be very patient with the mindset concept. Even though you may not see any relevance or application of this information to the dharma; it will help us to familiarize with the profound technique of opening the mind.   When all the pieces of the puzzle come together at the end of the mindset exercise, the entire teaching can then be appreciated.

Now let us increase the numbers to very large numbers by just adding a zero/or zeros to a previous number.

One- dimensional mindset (linear):

Unit	Log 10 increments	Digits
Ten	10	2
Hundred	100	3
Thousands	1000	4
Millions	1,000,000	7
Billions	1,000,000,000	10
Trillions	1,000,000,000,000	13
Quadrillion	1,000,0000,000,000,000	16
Gazillion	1,000,000,000,000,000,000	19
zillion, jillion, and gazillion, are fictitious names		
"Infinity"	1,000,000,000,000,000,000,000	**22**

After 21 operations, the number has increased to a 22-digit number, which is already a very large number. For some people, they can keep on counting. For many other people, they would stop counting and place "infinity" here at this point.
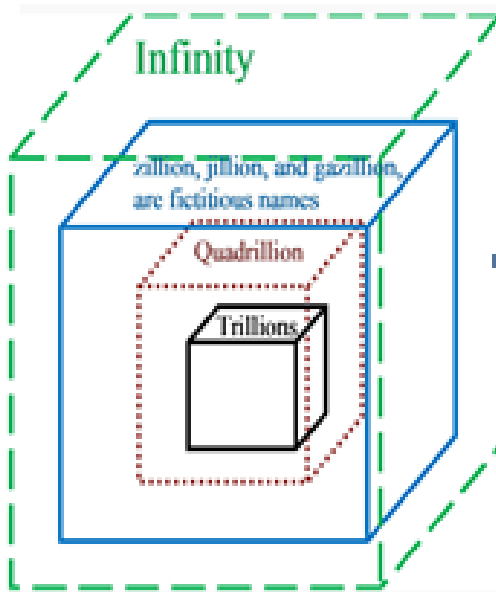
Some people do not have large number concept; they lack patience or do not want to get out of their thinking box. When the counting stops by placing the infinity box at any step, it means that the person's mind is opened only up to that dimension. The infinity thinking box can be anywhere, any value depending on the individual.

Expansion of one-dimensional Mindset:

	Unit (-illion)	Short scale (USA and Modern British)
1	million	10^6
2	milliard	
3	billion	10^9
4	trillion	10^{12}
5	quadrillion	10^{15}
6	quintillion	10^{18}
7	sextillion	10^{21}

	Unit (-illion)	Short scale (USA and Modern British)
8	septillion	10^{24}
9	octillion	10^{27}
10	nonillion	10^{30}
11	decillion	10^{33}
12	undecillion	10^{36}
13	duodecillion	10^{39}
14	tredecillion	10^{42}

	Unit (-illion)	Short scale
15	quattuordecillion	10^{45}
16	quindecillion (quinquadecillion)	10^{48}
17	sexdecillion (sedecillion)	10^{51}
18	septendecillion	10^{54}
19	octodecillion	10^{57}
20	novemdecillion (novendecillion)	10^{60}
21	vigintillion	10^{63}
101	centillion	10^{303}

Have we ever seen or known these huge numbers, which were beyond the infinity box? (i.e. my thinking box was at quadrillion 10^{15}). What if we have to count the sand as mentioned in the Sutra, these numbers (i.e. centillion) are still too small.

Two -dimensional mindset:

Squaring the number is another technique of increasing number value quickly. The square operation produces a rapid progression to huge numbers thereby forcing the mind to confront its own thinking box quickly.

Units	Square Increment	Digits
Hundred	10 x 10 = 100	3
Ten thousand	100 x 100 = 10,000	5
Hundred million	10,000 x 10,000 = 100,000,000	9
Hundred quadrillion	100,000,000 x 100,000,000 = 10,000,000,000,000,000	17
"Infinity"	10,000,000,000,000,000 x 10,000,000,000,000,000 = infinity	**33**

With only 5 operations, the number is increasing to 33-digits; undoubtedly most people will agree Infinity has been reached.

These modules illustrate how our mind opens from childhood to adult, from simple (linear) to complex operations (squaring):

Child development module = A toddler's thinking box = **2** digits (i.e. number 10)

One-dimensional module = infinity = **22** digits (21 operations)

Two-dimensional module = infinity = **33** digits (5 operations)

What are the benefits of these modules?

* They force the mind to be aware of very large numbers that it has never thought of before.

*They expand "infinity" thinking box (i.e. From quadrillion 10^{15} to centillion 10^{303})

*They broaden the mind in dimensions going from one dimension (i.e. distance/length dimension) to two dimensions (i.e. length and width dimensions).

*They are the prerequisite steps preparing the mind for the counting exercise in Avatamsaka sutra.