

Title: 13-Golden Pattern
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Abstract: This paper develops the divisibility of the so-called **Simple Primes numbers-13**, the discovery of a pattern to infinity, the demonstration of the inharmonics that are 2,3,5,7,11,13 and the harmony of 1. The discovery of infinite harmony represented in fractal numbers and patterns. This is a family before the prime numbers. This paper develops a formula to get simple prime number-13 and simple composite number-13
The simple prime numbers-13 are known as the **17-rough numbers**.

Keywords: Golden Pattern, 17-Rough number, divisibility, Prime number, composite number.

Simple Prime Number-13

In order to understand how simple Primes numbers work in this text, the approach is partial, only use divisible digits from 1 to 13. For a number to be considered Simple Prime number-13 by dividing it by 2, 3, 4, 5,6,7,8,9,10,11,12,13 must give a decimal result.
Simple Prime numbers-13 are those that are only divisible by themselves and by unity. Those that can be divided by other numbers from (2 to 13) are called Simple composite number-13
Positive integers that have no prime factors less than 17.

Simple Prime Number $\in \mathbb{Z}$

The simple prime numbers-13 maintain equivalent proportions in the positive numbers and also in the negative numbers.
In this paper the demonstrations are made with numbers $\in \mathbb{N}$

Introduction

This work is the continuation of the **Golden Pattern** papers published in <http://vixra.org/abs/1801.0064>, in which the discovery of a pattern for simple prime numbers has been demonstrated (For a number to be considered Simple Prime number-7 by dividing it by 2, 3, 4, 5, 6, 7, 8, 9, must give a decimal result.). If it resulted in integers numbers, it would be simple composite number-7.
Reference [A008364](#) The On-Line Encyclopedia of Integer Sequences.

In this paper we continue to develop demonstrations in which it is easy to see and with very simple accounts that the simple prime numbers of the 13-Golden Pattern maintain impressive proportions and equivalences.
All the numbers are kept in a precise order, forming equivalent sums and developing an infinite harmony.

Special cases

In this text the $N \in \{2, 3, 5, 7, 11, 13\}$ are not Simple Prime number-13. The calculations and proportions prove it and its reductions also. We can observe in the table that these numbers are simple composite number-13 since in the following patterns they work in that way.

The number 1 is a Simple prime number-13. It is a number that generates balance and harmony, it is a necessary number, it is the first number of the pattern, but it is also the representative of the first number of each pattern to infinity.
Graph 3 and 4 of this paper demonstrate this.
[A007775](#) Reference The On-Line Encyclopedia of Integer Sequences.

The 1 is Simple Prime Number, since the subsequent reductions in the Patterns to infinity in its place always reduce to 1 and maintain a precise equivalence and proportions.

90.091 = 1 This is the first Number of Pattern 2
180.181 = 1 This is the first Number of Pattern 3

The sums of the digits of these examples are 1.

90091=9+0+0+9+1=19=1+9=**10** =1+0= **1**
1+8+0+1+8+1=19=1+9=**10** =1+0= **1**

Construction of the 13-Golden Pattern

The product of the prime numbers up to number 13 inclusive, multiplied by 3, generates a result that indicates how many numbers there are in the 13-Golden Pattern. (The number 3 arises from the 3 different reductions that occur in each of its sequences: in $A=6 * n + 1$ (reductions 1,4,7) in $B=6 * n-1$ (reductions 2,5,8)

Example

$(2*3*5*7*11*13)*3 = 30.030*3 = \mathbf{90.090}$

13-Golden Pattern

The pattern found is from 1 to 90.090. It repeats itself to infinity respecting that proportion every 90.090 numbers. The 13-Golden Pattern is formed by a rectangle of 6 columns x 15.015 rows.

The simple prime numbers-13 fall in only two columns in the one of the 1 (Column A) and the one of the (column B) They are painted yellow. The rest of the columns are simple composite numbers-13. These are painted by red color.

The 13-Golden Pattern is divided into three Triplet Sectors. From 1 to 30.030, from 30.031 to 60.060 and from 60.061 to 90.090 proportional. These are identical, the only variable are their reductions. Which combine to the left in combinations of 1,4,7 and to the right in combinations of 2,5,8. We can see that each sector works as a pattern with the following. The same happens with the 13-Golden Pattern.

Example:

13-Golden Pattern (1 to 90.090)

Sector 1 (1 to 30.030)

Sector 2 (30.031 to 60.060)

Sector 3 (60.061 to 90.090).

Red: Reduction (sum of the digits of simple prime numbers-13)

Red	Sector 1						Red	Red	Sector 2						Red	Red	Sector 3						Red
1	1	2	3	4	5	6		7	30031	30032	30033	30034	30035	30036		4	60061	60062	60063	60064	60065	60066	
	7	8	9	10	11	12			30037	30038	30039	30040	30041	30042			60067	60068	60069	60070	60071	60072	
	13	14	15	16	17	18	8		30043	30044	30045	30046	30047	30048	5		60073	60074	60075	60076	60077	60078	2
1	19	20	21	22	23	24	5	7	30049	30050	30051	30052	30053	30054	2	4	60079	60080	60081	60082	60083	60084	8
	25	26	27	28	29	30	2		30055	30056	30057	30058	30059	30060	8		60085	60086	60087	60088	60089	60090	5
4	31	32	33	34	35	36		1	30061	30062	30063	30064	30065	30066		7	60091	60092	60093	60094	60095	60096	
1	37	38	39	40	41	42	5	7	30067	30068	30069	30070	30071	30072	2	4	60097	60098	60099	60100	60101	60102	8
7	43	44	45	46	47	48	2	4	30073	30074	30075	30076	30077	30078	8	1	60103	60104	60105	60106	60107	60108	5
	49	50	51	52	53	54	8		30079	30080	30081	30082	30083	30084	5		60109	60110	60111	60112	60113	60114	2
	55	56	57	58	59	60	5		30085	30086	30087	30088	30089	30090	2		60115	60116	60117	60118	60119	60120	8
7	61	62	63	64	65	66		4	30091	30092	30093	30094	30095	30096		1	60121	60122	60123	60124	60125	60126	
4	67	68	69	70	71	72	8	1	30097	30098	30099	30100	30101	30102	5	7	60127	60128	60129	60130	60131	60132	2
1	73	74	75	76	77	78		7	30103	30104	30105	30106	30107	30108		4	60133	60134	60135	60136	60137	60138	
7	79	80	81	82	83	84	2	4	30109	30110	30111	30112	30113	30114	8	1	60139	60140	60141	60142	60143	60144	5
	85	86	87	88	89	90	8		30115	30116	30117	30118	30119	30120	5		60145	60146	60147	60148	60149	60150	2
	91	92	93	94	95	96			30121	30122	30123	30124	30125	30126			60151	60152	60153	60154	60155	60156	
7	97	98	99	100	101	102	2	4	30127	30128	30129	30130	30131	30132	8	1	60157	60158	60159	60160	60161	60162	5
4	103	104	105	106	107	108	8	1	30133	30134	30135	30136	30137	30138	5	7	60163	60164	60165	60166	60167	60168	2
1	109	110	111	112	113	114	5	7	30139	30140	30141	30142	30143	30144	2	4	60169	60170	60171	60172	60173	60174	8
	115	116	117	118	119	120			30145	30146	30147	30148	30149	30150			60175	60176	60177	60178	60179	60180	
	121	122	123	124	125	126			30151	30152	30153	30154	30155	30156			60181	60182	60183	60184	60185	60186	
1	127	128	129	130	131	132	5	7	30157	30158	30159	30160	30161	30162	2	4	60187	60188	60189	60190	60191	60192	8
	133	134	135	136	137	138	2		30163	30164	30165	30166	30167	30168	8		60193	60194	60195	60196	60197	60198	5
4	139	140	141	142	143	144		1	30169	30170	30171	30172	30173	30174		7	60199	60200	60201	60202	60203	60204	
	145	146	147	148	149	150	5		30175	30176	30177	30178	30179	30180	2		60205	60206	60207	60208	60209	60210	8
7	151	152	153	154	155	156		4	30181	30182	30183	30184	30185	30186		1	60211	60212	60213	60214	60215	60216	
4	157	158	159	160	161	162		1	30187	30188	30189	30190	30191	30192		7	60217	60218	60219	60220	60221	60222	
1	163	164	165	166	167	168	5	7	30193	30194	30195	30196	30197	30198	2	4	60223	60224	60225	60226	60227	60228	8

Graph table 1

In each **Sector** there are 5760 simple prime numbers-13. And in the Total Pattern there is the triple, Then there are 17280 Simple Primes numbers-13.
Nps= Simple Prime Numbers-13

In columns A there are composite numbers greater than 3 and simple prime numbers under the sequence $6 * n + 1$
In column B there are composite numbers greater than 3 and simple prime numbers under the sequence $6 * n - 1$

Throughout this text we will work with these two columns mainly.

1) Addition Simple Primes Number-13 by Sector.

Nps= Simple prime Numbers-13

$$\text{Sector 1 } \sum_{Nps \geq 1}^{30.030} 5.760 \text{ Simple prime numbers} - 13 = 86.486.400$$

$$\text{Sector 2 } \sum_{Nps \geq 30.031}^{60.060} 5.760 \text{ Simple prime numbers} - 13 = 259.459.200 \quad \text{Difference } 172.972.800$$

$$\text{Sector 3 } \sum_{Nps \geq 60.061}^{90.090} 5.760 \text{ Simple prime numbers} - 13 = 432.432.000 \quad \text{Difference } 172.972.800$$

Total

$$13 - \text{Golden Pattern } \sum_{Nps \geq 1}^{90.090} 17.280 \text{ Simple Prime numbers} - 13 = 778.377.600$$

Conclusion 1

Each SECTOR is multiple x3, x5 with respect to the first. Also to infinity if we are adding 30.030 next numbers (x7, x9, x11, etc.)

The differences 172.972.800 are repeated for every 30.030 numbers. The difference is equal to the sum of **simple prime number-13 of Sector 1** by two.

The total is equal to the sum of **simple prime number-13 of Sector 1** by 9.

Total 778.377.600=86.486.400 * 9

2) Addition of Composite numbers-13 by Sector (only composite numbers divisible by numbers greater than 3, column A, B)

Nc= Composite Numbers-13

$$\text{Sector 1 } \sum_{Nc \geq 1}^{30.030} 9.530 \text{ Composite numbers} - 13 = 143.092.950$$

$$\text{Sector 2 } \sum_{Nc \geq 30.031}^{60.060} 9.530 \text{ Composite numbers} - 13 = 429.278.850 \quad \text{Difference } 286.185.900$$

$$\text{Sector 3 } \sum_{Nc \geq 60.061}^{90.090} 9.530 \text{ Composite numbers} - 13 = 715.464.750 \quad \text{Difference } 286.185.900$$

Total

$$13 - \text{Golden Pattern } \sum_{Nc \geq 1}^{90.090} 28.590 \text{ Composite numbers} - 13 = 1.287.836.550$$

Conclusion 2

Each SECTOR is multiple x3, x5 with respect to the first. Also to infinity if we are adding 30.030 next numbers (x7, x9, x11, etc.).

The difference 286.185.900 are repeated for every 30.030 numbers. The difference is equal to the sum of **simple composite number-13 of Sector 1** by 2.

The total is equal to the sum of **simple composite number-13 of Sector 1** by 9.

Total =1.287.836.550=143.092.950 * 9

13-Golden Pattern, Simple Prime number-13

We can observe how the numbers are arranged in two columns, to the left the simple prime numbers-13 are reduced to combinations of 1,4,7 (column A) and to the right to combinations of 2,5,8 (column B). The reductions are formed by the sum of their digits.

This pattern works every 90.090 numbers. This works to infinity. If we started from 90.091 we would obtain the following table up to 180.180 in which we would find that the locations of the yellow colors (simple prime numbers-13) and red (Simple composite numbers-13) coincide in 100% of the cases.

The 13-Golden pattern keeps the colors in the same location and also the numbers match their reductions.

Example

1=1

90.091=1

Red: Reduction (sum of the digits of simple prime numbers-13)

13-Golden Pattern		Next Pattern	
Red		Red	
1	1 2 3 4 5 6	1	90091 90092 90093 90094 90095 90096
	7 8 9 10 11 12		90097 90098 90099 90100 90101 90102
	13 14 15 16 17 18	8	90103 90104 90105 90106 90107 90108
1	19 20 21 22 23 24	5	90109 90110 90111 90112 90113 90114
	25 26 27 28 29 30	2	90115 90116 90117 90118 90119 90120
4	31 32 33 34 35 36	4	90121 90122 90123 90124 90125 90126
1	37 38 39 40 41 42	1	90127 90128 90129 90130 90131 90132
7	43 44 45 46 47 48	7	90133 90134 90135 90136 90137 90138
	49 50 51 52 53 54		90139 90140 90141 90142 90143 90144
	55 56 57 58 59 60	5	90145 90146 90147 90148 90149 90150
7	61 62 63 64 65 66	7	90151 90152 90153 90154 90155 90156
4	67 68 69 70 71 72	4	90157 90158 90159 90160 90161 90162
1	73 74 75 76 77 78	1	90163 90164 90165 90166 90167 90168
7	79 80 81 82 83 84	7	90169 90170 90171 90172 90173 90174
	85 86 87 88 89 90		90175 90176 90177 90178 90179 90180
	91 92 93 94 95 96	8	90181 90182 90183 90184 90185 90186
7	97 98 99 100 101 102	7	90187 90188 90189 90190 90191 90192
4	103 104 105 106 107 108	4	90193 90194 90195 90196 90197 90198
1	109 110 111 112 113 114	1	90199 90200 90201 90202 90203 90204
	115 116 117 118 119 120		90205 90206 90207 90208 90209 90210
	121 122 123 124 125 126	5	90211 90212 90213 90214 90215 90216
1	127 128 129 130 131 132	1	90217 90218 90219 90220 90221 90222
	133 134 135 136 137 138	2	90223 90224 90225 90226 90227 90228
4	139 140 141 142 143 144	4	90229 90230 90231 90232 90233 90234
	145 146 147 148 149 150		90235 90236 90237 90238 90239 90240

Continue to 90.090

Continue to 180.180

Graph table 2
Reference [A008366](#) The On-Line Encyclopedia of Integer Sequences

3) Simple Prime Numbers-13 by Pattern

Nps= Simple Prime Numbers-13

$$13 - \text{Golden Pattern} \sum_{Nps \geq 1}^{90.090} 17.280 \text{ Simple Prime numbers} - 13$$

$$\text{Pattern 2} \sum_{Nps \geq 1}^{180.180} 34.560 \text{ Simple Prime numbers} - 13$$

$$\text{Pattern 3} \sum_{Nps \geq 1}^{270.270} 51.840 \text{ Simple Prime Numbers} - 13$$

Conclusion 3

It is repeated to infinity every 90.090 numbers. The 13-Golden Pattern is multiplied by x2, x3, x4, x5, etc with respect to the following patterns.

4) Addition Simple Primes Numbers-13 by Pattern

Nps= Simple Prime Numbers-13

$$13 - \text{Golden Pattern} \sum_{Nps \geq 1}^{90.090} = 778.377.600$$

$$\text{Pattern 2} \sum_{Nps \geq 90.091}^{180.180} = 2.335.132.800$$

Difference with the **13 – Golden Pattern** is x3

$$\text{Pattern 3} \sum_{Nps \geq 180.181}^{270.270} = 3.891.888.000$$

Difference with the **13 – Golden Pattern** is x5

Conclusion 4

The model continues to multiply and is repeated to infinity every 90.090 numbers. (Odd Multiples for totals, x3, x5, x7,x9, etc.)

The difference is repeated for every 90.090 numbers.

The difference is equal to the sum of simple prime number-13 of **13-Golden Pattern** by two.

5) Addition Simple Primes Numbers-13 by Pattern in total

Nps= Simple Prime Numbers-13

$$17.280 \text{ simple prime number in } 13 - \text{Golden Pattern} \sum_{Nps \geq 1}^{90.090} = 778.377.600$$

$$34.560 \text{ simple prime number} - 13 \text{ to Pattern 2} \sum_{Nps \geq 1}^{180.180} = 3.113.510.400$$

Difference with the **13 – Golden Pattern** is x 4

$$51.840 \text{ simple prime number} - 13 \text{ to Pattern 3} \sum_{Nps \geq 1}^{270.270} = 7.005.398.400$$

Difference with the **13 – Golden Pattern** is x 9

$$69.120 \text{ simple prime number} - 13 \text{ to Pattern 4} \sum_{Nps \geq 1}^{360.360} = 12.454.041.600$$

Difference with the **13 – Golden Pattern** is x 16

$$86.400 \text{ simple prime number} - 13 \text{ to Pattern 5} \sum_{Nps \geq 1}^{450.450} = 19.459.440.000$$

Difference with the **13 – Golden Pattern** is x 25

Conclusion 5

The model continues to multiply and is repeated to infinity every 90.090 numbers. (Odd Multiples for totals, x4, x9, x16,x 25, etc.).

The differences work with the formula x^2

Example

$$13\text{-Golden Pattern } 1^2 = 1$$

$$\text{Pattern 2} = 2^2 = 4$$

$$\text{Pattern 3} = 3^2 = 9$$

$$\text{Pattern 4} = 4^2 = 16$$

$$\text{Pattern 5} = 5^2 = 25$$

6) Addition of Composite numbers-13 by Pattern (only composite numbers divisible by numbers greater than 3)

Nc= Composite Numbers-13

$$13 - \text{Golden Pattern} \sum_{Nc \geq 1}^{90.090} 28.590 \text{ composite number} - 13 = 1.287.836.550$$

$$\text{Pattern 2 } \sum_{Nc \geq 90.091}^{180.180} 28.590 \text{ composite number} - 13 = 3.863.509.650$$

Difference with the 13 – Golden Pattern is x3

$$\text{Pattern 3 } \sum_{Nc \geq 180.181}^{270.270} 28.590 \text{ composite number} - 13 = 6.439.182.750$$

Difference with the 13 – Golden Pattern is x5

Conclusion 6

There is also a difference between each Pattern of 2.575.673.100. These is equal to the sum of the numbers composite-13 (13-Golden Pattern) by 2. We could keep multiplying, x7, x9, x11, etc. To infinity every 90.090 more numbers.

7) Addition of composite Numbers-13 by Pattern in total, (only composite numbers divisible by numbers greater than 3)
 Nc= Composite Numbers-13

$$28.590 \text{ Composite number in 13 – Golden Pattern } \sum_{Nc \geq 1}^{90.090} = 1.287.836.550$$

$$57.180 \text{ Composite number} - 13 \text{ to Pattern 2 } \sum_{Nc \geq 1}^{180.180} = 5.151.346.200$$

Difference with the 13 – Golden Pattern is x 4

$$85.770 \text{ Composite number} - 13 \text{ to Pattern 3 } \sum_{Nc \geq 1}^{270.270} = 11.590.528.950$$

Difference with the 13 – Golden Pattern is x 9

Conclusion 7

The number of composite number-13 is related to the next pattern every 90.090 more numbers. The model continues to multiply and is repeated to infinity every 90.090 numbers. (Odd Multiples for totals, x4, x9, x16,x 25, etc.).

The differences work with the formula x^2

- Example
 13-Golden Pattern $1^2 = 1$
 Pattern 2= $2^2=4$
 Pattern 3= $3^2 = 9$
 Pattern 4= $4^2 = 16$
 Pattern 5= $5^2= 25$

Demonstration 1
Formula to get simple prime number-13

Example and demonstration of the formula is divided into 2 columns.

On the left we will calculate the simple prime number-13 located in (A), on the right we will calculate the prime numbers-13 located in (B).

$P_{13(A)} = S. \text{Prime numbers} - 13 \text{ in column (A)}$ $Z = \text{numbers} \geq 0$	$P_{13(B)} = S. \text{Prime numbers} - 13 \text{ in column (B)}$ $Z = \text{numbers} \geq 0$
$P_{13(A)} = (6 * n \begin{matrix} n \geq 0 \\ n \neq 1 \\ n \neq 2 \\ n \neq 4+5*Z \\ n \neq 8+7*Z \\ n \neq 9+11*Z \\ n \neq 15+13*Z \end{matrix} + 1)$ <p>$n \neq 1,2,4,8,9,14,15,19,20,22, \dots$</p> <p>Using values correct for: $n = 0,3,5,6,7,10,11,12, \dots$</p>	$P_{13(B)} = (6 * n \begin{matrix} n > 2 \\ n \neq 6+5*Z \\ n \neq 6+7*Z \\ n \neq 13+11*Z \\ n \neq 11+13*Z \end{matrix} - 1)$ <p>$n \neq 6,11,13,16,20,21, \dots$</p> <p>Using correct values for $n = 3,4,5,7,8,9,10,12,13,14,15, \dots$</p> <p>We get the following Simple prime numbers-13.</p>

<p>We get the following Simple prime numbers-13.</p> $P_{13(A)} = 1, 19, 31, 37, 43, 49, 61, 67, 73, \dots$	$P_{13(B)} = 17, 23, 29, 41, 47, 53, 59, 71, 83, 89, \dots$
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The formula for calculating the Simple Prime numbers-13 is based on Zeolla Gabriel's paper on how to obtain prime numbers. <http://vixra.org/abs/1801.0093>

Reference [A008366](#) The On-Line Encyclopedia of Integer Sequences

Demonstration 2

Formula to get simple composite number-13

Example and demonstration of the formula is divided into 2 columns.

On the left we will calculate the simple composite number-13 located in (A), on the right we will calculate the composite numbers-13 located in (B).

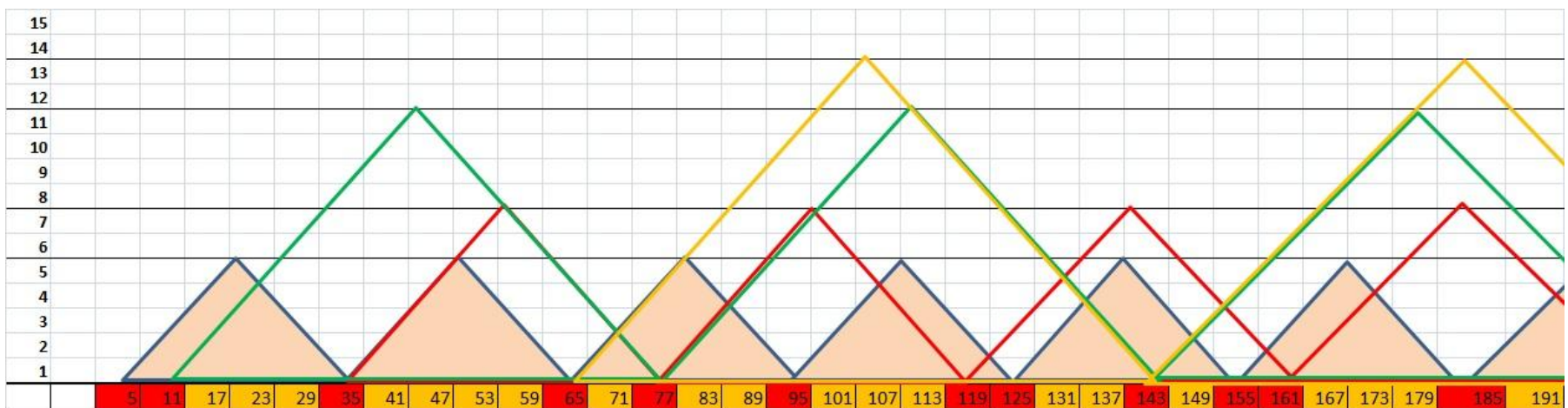
$NC_{13(A)} = S. Composite numbers - 13 in column(A)$ $Z = numbers \geq 0$	$NC_{13(B)} = S. Composite numbers - 13 in column(B)$ $Z = numbers \geq 0$
$NC_{13(A)} = (6 * n \begin{matrix} n=1 \\ n=2 \\ n=4+5*Z \\ n=8+7*Z \\ n=9+11*Z \\ n=15+13*Z \end{matrix} + 1)$ <p>$n = 1, 2, 4, 8, 9, 14, 15, 19, \dots$</p> <p>We get the following S. Composite numbers-13.</p> $NC_{13(A)} = 7, 13, 25, 49, 55, 85, 91, 115, \dots$	$NC_{13(B)} = (6 * n \begin{matrix} n=1 \\ n=2 \\ n=6+5*Z \\ n=6+7*Z \\ n=13+11*Z \\ n=11+13*Z \end{matrix} - 1)$ <p>$n = 1, 2, 6, 11, 13, 16, 20, 21, \dots$</p> <p>We get the following S. Composite numbers-13.</p> $NC_{13(B)} = 5, 11, 35, 65, 77, 95, 119, 125, \dots$

The formula for calculating the Simple composite numbers-13 is based on Zeolla Gabriel's paper on how to obtain prime numbers and composite numbers. <http://vixra.org/abs/1801.0093>

Graphics

In the vertices of the triangles on the line are the composite numbers-13. The rest are Simple Prime numbers-13
The base triangles 5 form composite numbers multiples of 5.
The base triangles 7 form composite numbers multiples of 7.
The base triangles 11 form composite numbers multiples of 11.
The base triangles 13 form composite numbers multiples of 13.

$$Sequence B = 6 * n - 1 \quad n > 0$$



Graphic 3

Reference [A016969](#) (The On-line Enciclopedia of integers sequences)

$$\text{Sequence } A = 6 * n + 1 \quad n \geq 0$$



Graphic 4

Reference [A016921](#) (The On-line Enciclopedia of integers sequences)

Final conclusion

The 13-Golden Pattern is the confirmation of an order to infinity in equilibrium, each column is in harmony and balance with the other, the demonstration of the inharmony of 2, 3, 5, 7, 11, 13 is very great. The number 1 is necessary and generates balance. Simple Prime Numbers-13 are a family prior to the Classical Prime Numbers.

The sum of the composite numbers-13 and the simple prime numbers-13 demonstrate incredible proportions that indicate that they have a fractal behavior.

The reductions of the 13-Golden Pattern are infinitely repeated every 90.090 numbers.

The proportions of the 13-Golden pattern are exactly equal and proportional to the 7-golden pattern. (<http://vixra.org/abs/1801.0064>), and other patterns with different prime numbers.

The formula for obtaining the simple Prime numbers-13 and composite number-13 works successfully, we only have to condition (n) to obtain the expected results.

I can affirm that there are infinite different patterns with different prime divisors, which maintain a great harmony between columns A, B, they are always in balance, they present infinite proportions, fractal symmetries, All patterns have the same procedure. They are all different and they are very linked.

This Paper is extracted from my book The Golden Pattern II
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