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

Keywords: Golden Pattern, 13-Rough number, divisibility, Prime number, composite number.

Simple Prime Number-11

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

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

The number 1 is a Simple prime number-11. 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.
Reference A008365 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.
6931 = 1 This is the first Number of Pattern 2
13861 = 1 This is the first Number of Pattern 3

The sums of the digits of these examples is 1.
6+9+3+1=**19** =1+9=**10** =1+0= **1**
1+3+8+6+1=**19** =1+9=**10** =1+0= **1**

Construction of the 11-Golden Pattern

The product of the prime numbers up to number 11 inclusive, multiplied by 3, generates a result that indicates how many numbers there are in the 11-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)*3 = 2310*3 = **6930**

11-Golden Pattern

The pattern found is from 1 to 6930. It repeats itself to infinity respecting that proportion every 6930 numbers. The 11-Golden Pattern is formed by a rectangle of 6 columns x 1155 rows.
The simple prime numbers-11 fall in only two columns in the one of the 1 (Column A) and the one of the 5 (column B) They are painted yellow. The rest of the columns are simple composite numbers-11. These are painted by red color.

The 11-Golden Pattern is divided into three Triplet Sectors. From 1 to 2310, from 2311 to 4620 and from 4621 to 6930 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 11-Golden Pattern.

Example:
11-Golden Pattern (1 al 6930)

Sector 1 (1 al 2310)
Sector 2 (2311 al 4620)
Sector 3 (4621 al 6930).

Red: Reduction (sum of the digits of simple prime numbers-11)

Sector 1

Red	A			B			Red
1	1	2	3	4	5	6	
	7	8	9	10	11	12	2
4	13	14	15	16	17	18	8
1	19	20	21	22	23	24	5
	25	26	27	28	29	30	2
4	31	32	33	34	35	36	
1	37	38	39	40	41	42	5
7	43	44	45	46	47	48	2
	49	50	51	52	53	54	8
	55	56	57	58	59	60	5
7	61	62	63	64	65	66	
4	67	68	69	70	71	72	8
1	73	74	75	76	77	78	
7	79	80	81	82	83	84	2
	85	86	87	88	89	90	8
	91	92	93	94	95	96	
7	97	98	99	100	101	102	2
4	103	104	105	106	107	108	8
1	109	110	111	112	113	114	5
	115	116	117	118	119	120	
	121	122	123	124	125	126	
1	127	128	129	130	131	132	5
	133	134	135	136	137	138	2
4	139	140	141	142	143	144	
	145	146	147	148	149	150	5
7	151	152	153	154	155	156	
4	157	158	159	160	161	162	
1	163	164	165	166	167	168	5
7	169	170	171	172	173	174	2
	175	176	177	178	179	180	8
1	181	182	183	184	185	186	
	187	188	189	190	191	192	2
4	193	194	195	196	197	198	8
1	199	200	201	202	203	204	
	205	206	207	208	209	210	
4	211	212	213	214	215	216	
	217	218	219	220	221	222	5
7	223	224	225	226	227	228	2
4	229	230	231	232	233	234	8
	235	236	237	238	239	240	5
7	241	242	243	244	245	246	
4	247	248	249	250	251	252	8
	253	254	255	256	257	258	5
	259	260	261	262	263	264	2
	265	266	267	268	269	270	8
1	271	272	273	274	275	276	
7	277	278	279	280	281	282	2
4	283	284	285	286	287	288	
1	289	290	291	292	293	294	5
	295	296	297	298	299	300	2
	301	302	303	304	305	306	
1	307	308	309	310	311	312	5
7	313	314	315	316	317	318	2
	319	320	321	322	323	324	8
	325	326	327	328	329	330	
7	331	332	333	334	335	336	
4	337	338	339	340	341	342	
	343	344	345	346	347	348	5
7	349	350	351	352	353	354	2
	355	356	357	358	359	360	8
1	361	362	363	364	365	366	
7	367	368	369	370	371	372	
4	373	374	375	376	377	378	8

Sector 2

Red	A				B		Red
7	2311	2312	2313	2314	2315	2316	
	2317	2318	2319	2320	2321	2322	8
1	2323	2324	2325	2326	2327	2328	5
7	2329	2330	2331	2332	2333	2334	2
	2335	2336	2337	2338	2339	2340	8
1	2341	2342	2343	2344	2345	2346	
7	2347	2348	2349	2350	2351	2352	2
4	2353	2354	2355	2356	2357	2358	8
	2359	2360	2361	2362	2363	2364	5
	2365	2366	2367	2368	2369	2370	2
4	2371	2372	2373	2374	2375	2376	
1	2377	2378	2379	2380	2381	2382	5
7	2383	2384	2385	2386	2387	2388	
4	2389	2390	2391	2392	2393	2394	8
	2395	2396	2397	2398	2399	2400	5
	2401	2402	2403	2404	2405	2406	
4	2407	2408	2409	2410	2411	2412	8
1	2413	2414	2415	2416	2417	2418	5
7	2419	2420	2421	2422	2423	2424	2
	2425	2426	2427	2428	2429	2430	
	2431	2432	2433	2434	2435	2436	
7	2437	2438	2439	2440	2441	2442	2
	2443	2444	2445	2446	2447	2448	8
1	2449	2450	2451	2452	2453	2454	5
	2455	2456	2457	2458	2459	2460	2
4	2461	2462	2463	2464	2465	2466	
1	2467	2468	2469	2470	2471	2472	
7	2473	2474	2475	2476	2477	2478	2
4	2479	2480	2481	2482	2483	2484	8
	2485	2486	2487	2488	2489	2490	5
7	2491	2492	2493	2494	2495	2496	
	2497	2498	2499	2500	2501	2502	8
1	2503	2504	2505	2506	2507	2508	5
7	2509	2510	2511	2512	2513	2514	
	2515	2516	2517	2518	2519	2520	8
1	2521	2522	2523	2524	2525	2526	
	2527	2528	2529	2530	2531	2532	2
4	2533	2534	2535	2536	2537	2538	8
1	2539	2540	2541	2542	2543	2544	5
	2545	2546	2547	2548	2549	2550	2
4	2551	2552	2553	2554	2555	2556	
1	2557	2558	2559	2560	2561	2562	5
	2563	2564	2565	2566	2567	2568	2
	2569	2570	2571	2572	2573	2574	8
	2575	2576	2577	2578	2579	2580	5
7	2581	2582	2583	2584	2585	2586	
4	2587	2588	2589	2590	2591	2592	8
1	2593	2594	2595	2596	2597	2598	
7	2599	2600	2601	2602	2603	2604	2
	2605	2606	2607	2608	2609	2610	8
	2611	2612	2613	2614	2615	2616	
7	2617	2618	2619	2620	2621	2622	2
4	2623	2624	2625	2626	2627	2628	8
	2629	2630	2631	2632	2633	2634	5
	2635	2636	2637	2638	2639	2640	
4	2641	2642	2643	2644	2645	2646	
1	2647	2648	2649	2650	2651	2652	5
	2653	2654	2655	2656	2657	2658	2
4	2659	2660	2661	2662	2663	2664	8
	2665	2666	2667	2668	2669	2670	5
7	2671	2672	2673	2674	2675	2676	
4	2677	2678	2679	2680	2681	2682	
1	2683	2684	2685	2686	2687	2688	5

Sector 3

Red	A				B		Red
4	4621	4622	4623	4624	4625	4626	
	4627	4628	4629	4630	4631	4632	5
7	4633	4634	4635	4636	4637	4638	2
4	4639	4640	4641	4642	4643	4644	8
	4645	4646	4647	4648	4649	4650	5
7	4651	4652	4653	4654	4655	4656	
4	4657	4658	4659	4660	4661	4662	8
1	4663	4664	4665	4666	4667	4668	5
	4669	4670	4671	4672	4673	4674	2
	4675	4676	4677	4678	4679	4680	8
1	4681	4682	4683	4684	4685	4686	
7	4687	4688	4689	4690	4691	4692	2
4	4693	4694	4695	4696	4697	4698	
1	4699	4700	4701	4702	4703	4704	5
	4705	4706	4707	4708	4709	4710	2
	4711	4712	4713	4714	4715	4716	
1	4717	4718	4719	4720	4721	4722	5
7	4723	4724	4725	4726	4727	4728	2
4	4729	4730	4731	4732	4733	4734	8
	4735	4736	4737	4738	4739	4740	
	4741	4742	4743	4744	4745	4746	
4	4747	4748	4749	4750	4751	4752	8
	4753	4754	4755	4756	4757	4758	5
7	4759	4760	4761	4762	4763	4764	2
	4765	4766	4767	4768	4769	4770	8
1	4771	4772	4773	4774	4775	4776	
7	4777	4778	4779	4780	4781	4782	
4	4783	4784	4785	4786	4787	4788	8
1	4789	4790	4791	4792	4793	4794	5
	4795	4796	4797	4798	4799	4800	2
4	4801	4802	4803	4804	4805	4806	
	4807	4808	4809	4810	4811	4812	5
7	4813	4814	4815	4816	4817	4818	2
4	4819	4820	4821	4822	4823	4824	
	4825	4826	4827	4828	4829	4830	5
7	4831	4832	4833	4834	4835	4836	
	4837	4838	4839	4840	4841	4842	8
1	4843	4844	4845	4846	4847	4848	5
7	4849	4850	4851	4852	4853	4854	2
	4855	4856	4857	4858	4859	4860	8
1	4861	4862	4863	4864	4865	4866	
7	4867	4868	4869	4870	4871	4872	2
	4873	4874	4875	4876	4877	4878	8
	4879	4880	4881	4882	4883	4884	5
	4885	4886	4887	4888	4889	4890	2
4	4891	4892	4893	4894	4895	4896	
1	4897	4898	4899	4900	4901	4902	5
7	4903	4904	4905	4906	4907	4908	
4	4909	4910	4911	4912	4913	4914	8
	4915	4916	4917	4918	4919	4920	5
	4921	4922	4923	4924	4925	4926	
4	4927	4928	4929	4930	4931	4932	8
1	4933	4934	4935	4936	4937	4938	5
	4939	4940	4941	4942	4943	4944	2
	4945	4946	4947	4948	4949	4950	
1	4951	4952	4953	4954	4955	4956	
7	4957	4958	4959	4960	4961	4962	2
	4963	4964	4965	4966	4967	4968	8
1	4969	4970	4971	4972	4973	4974	5
	4975	4976	4977	4978	4979	4980	2
4	4981	4982	4983	4984	4985	4986	
1	4987	4988	4989	4990	4991	4992	
7	4993	4994	4995	4996	4997	4998	2

1	379	380	381	382	383	384	5
	385	386	387	388	389	390	2
4	391	392	393	394	395	396	
1	397	398	399	400	401	402	5
7	403	404	405	406	407	408	
4	409	410	411	412	413	414	
	415	416	417	418	419	420	5
7	421	422	423	424	425	426	
	427	428	429	430	431	432	8
1	433	434	435	436	437	438	5
7	439	440	441	442	443	444	2
	445	446	447	448	449	450	8
	451	452	453	454	455	456	
7	457	458	459	460	461	462	2
4	463	464	465	466	467	468	8
	469	470	471	472	473	474	
	475	476	477	478	479	480	2
4	481	482	483	484	485	486	
1	487	488	489	490	491	492	5
7	493	494	495	496	497	498	
4	499	500	501	502	503	504	8
	505	506	507	508	509	510	5
	511	512	513	514	515	516	
	517	518	519	520	521	522	8
1	523	524	525	526	527	528	5
7	529	530	531	532	533	534	2
	535	536	537	538	539	540	
1	541	542	543	544	545	546	
7	547	548	549	550	551	552	2
	553	554	555	556	557	558	8
1	559	560	561	562	563	564	5
	565	566	567	568	569	570	2
4	571	572	573	574	575	576	
1	577	578	579	580	581	582	
	583	584	585	586	587	588	2
4	589	590	591	592	593	594	8
	595	596	597	598	599	600	5
7	601	602	603	604	605	606	
4	607	608	609	610	611	612	8
1	613	614	615	616	617	618	5
7	619	620	621	622	623	624	
	625	626	627	628	629	630	8
1	631	632	633	634	635	636	
	637	638	639	640	641	642	2
4	643	644	645	646	647	648	8
	649	650	651	652	653	654	5
	655	656	657	658	659	660	2
4	661	662	663	664	665	666	
1	667	668	669	670	671	672	
7	673	674	675	676	677	678	2
	679	680	681	682	683	684	8
	685	686	687	688	689	690	5
7	691	692	693	694	695	696	
4	697	698	699	700	701	702	8
1	703	704	705	706	707	708	
7	709	710	711	712	713	714	2
	715	716	717	718	719	720	8
	721	722	723	724	725	726	
7	727	728	729	730	731	732	2
4	733	734	735	736	737	738	
1	739	740	741	742	743	744	5
	745	746	747	748	749	750	
4	751	752	753	754	755	756	
1	757	758	759	760	761	762	5
	763	764	765	766	767	768	2
4	769	770	771	772	773	774	8
	775	776	777	778	779	780	5
	781	782	783	784	785	786	
4	787	788	789	790	791	792	
1	793	794	795	796	797	798	5
7	799	800	801	802	803	804	
	805	806	807	808	809	810	8
1	811	812	813	814	815	816	
7	817	818	819	820	821	822	2
4	823	824	825	826	827	828	8
1	829	830	831	832	833	834	
	835	836	837	838	839	840	2
4	841	842	843	844	845	846	
	847	848	849	850	851	852	5
7	853	854	855	856	857	858	2
4	859	860	861	862	863	864	8
	865	866	867	868	869	870	

7	2689	2690	2691	2692	2693	2694	2
	2695	2696	2697	2698	2699	2700	8
1	2701	2702	2703	2704	2705	2706	
7	2707	2708	2709	2710	2711	2712	2
4	2713	2714	2715	2716	2717	2718	8
1	2719	2720	2721	2722	2723	2724	
	2725	2726	2727	2728	2729	2730	2
4	2731	2732	2733	2734	2735	2736	
	2737	2738	2739	2740	2741	2742	5
7	2743	2744	2745	2746	2747	2748	2
4	2749	2750	2751	2752	2753	2754	8
	2755	2756	2757	2758	2759	2760	5
	2761	2762	2763	2764	2765	2766	
4	2767	2768	2769	2770	2771	2772	8
1	2773	2774	2775	2776	2777	2778	5
	2779	2780	2781	2782	2783	2784	2
	2785	2786	2787	2788	2789	2790	8
1	2791	2792	2793	2794	2795	2796	
7	2797	2798	2799	2800	2801	2802	2
4	2803	2804	2805	2806	2807	2808	
1	2809	2810	2811	2812	2813	2814	5
	2815	2816	2817	2818	2819	2820	2
	2821	2822	2823	2824	2825	2826	
	2827	2828	2829	2830	2831	2832	5
7	2833	2834	2835	2836	2837	2838	2
4	2839	2840	2841	2842	2843	2844	8
	2845	2846	2847	2848	2849	2850	
7	2851	2852	2853	2854	2855	2856	
4	2857	2858	2859	2860	2861	2862	8
	2863	2864	2865	2866	2867	2868	5
7	2869	2870	2871	2872	2873	2874	2
	2875	2876	2877	2878	2879	2880	8
1	2881	2882	2883	2884	2885	2886	
7	2887	2888	2889	2890	2891	2892	
	2893	2894	2895	2896	2897	2898	8
1	2899	2900	2901	2902	2903	2904	5
	2905	2906	2907	2908	2909	2910	2
4	2911	2912	2913	2914	2915	2916	
1	2917	2918	2919	2920	2921	2922	5
7	2923	2924	2925	2926	2927	2928	2
4	2929	2930	2931	2932	2933	2934	
	2935	2936	2937	2938	2939	2940	5
7	2941	2942	2943	2944	2945	2946	
	2947	2948	2949	2950	2951	2952	8
1	2953	2954	2955	2956	2957	2958	5
	2959	2960	2961	2962	2963	2964	2
	2965	2966	2967	2968	2969	2970	8
1	2971	2972	2973	2974	2975	2976	
7	2977	2978	2979	2980	2981	2982	2
4	2983	2984	2985	2986	2987	2988	8
	2989	2990	2991	2992	2993	2994	5
	2995	2996	2997	2998	2999	3000	2
4	3001	3002	3003	3004	3005	3006	
1	3007	3008	3009	3010	3011	3012	5
7	3013	3014	3015	3016	3017	3018	
4	3019	3020	3021	3022	3023	3024	8
	3025	3026	3027	3028	3029	3030	5
	3031	3032	3033	3034	3035	3036	
4	3037	3038	3039	3040	3041	3042	8
1	3043	3044	3045	3046	3047	3048	
7	3049	3050	3051	3052	3053	3054	2
	3055	3056	3057	3058	3059	3060	
1	3061	3062	3063	3064	3065	3066	
7	3067	3068	3069	3070	3071	3072	2
	3073	3074	3075	3076	3077	3078	8
1	3079	3080	3081	3082	3083	3084	5
	3085	3086	3087	3088	3089	3090	2
	3091	3092	3093	3094	3095	3096	
1	3097	3098	3099	3100	3101	3102	
7	3103	3104	3105	3106	3107	3108	2
4	3109	3110	3111	3112	3113	3114	
	3115	3116	3117	3118	3119	3120	5
7	3121	3122	3123	3124	3125	3126	
4	3127	3128	3129	3130	3131	3132	8
1	3133	3134	3135	3136	3137	3138	5
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	6505	6506	6507	6508	6509	6510	2
4	6511	6512	6513	6514	6515	6516	
	6517	6518	6519	6520	6521	6522	5
	6523	6524	6525	6526	6527	6528	2
4	6529	6530	6531	6532	6533	6534	8
	6535	6536	6537	6538	6539	6540	5
7	6541	6542	6543	6544	6545	6546	
4	6547	6548	6549	6550	6551	6552	8
1	6553	6554	6555	6556	6557	6558	5
	6559	6560	6561	6562	6563	6564	2
	6565	6566	6567	6568	6569	6570	8
1	6571	6572	6573	6574	6575	6576	
7	6577	6578	6579	6580	6581	6582	2
4	6583	6584	6585	6586	6587	6588	
	6589	6590	6591	6592	6593	6594	5
	6595	6596	6597	6598	6599	6600	2
	6601	6602	6603	6604	6605	6606	
1	6607	6608	6609	6610	6611	6612	
7	6613	6614	6615	6616	6617	6618	2
4	6619	6620	6621	6622	6623	6624	8
	6625	6626	6627	6628	6629	6630	
7	6631	6632	6633	6634	6635	6636	
4	6637	6638	6639	6640	6641	6642	8
	6643	6644	6645	6646	6647	6648	5
7	6649	6650	6651	6652	6653	6654	2
	6655	6656	6657	6658	6659	6660	8
1	6661	6662	6663	6664	6665	6666	
7	6667	6668	6669	6670	6671	6672	
4	6673	6674	6675	6676	6677	6678	
1	6679	6680	6681	6682	6683	6684	5
	6685	6686	6687	6688	6689	6690	2
4	6691	6692	6693	6694	6695	6696	
1	6697	6698	6699	6700	6701	6702	5
7	6703	6704	6705	6706	6707	6708	2
4	6709	6710	6711	6712	6713	6714	
	6715	6716	6717	6718	6719	6720	5
	6721	6722	6723	6724	6725	6726	
	6727	6728	6729	6730	6731	6732	8
1	6733	6734	6735	6736	6737	6738	5
7	6739	6740	6741	6742	6743	6744	
	6745	6746	6747	6748	6749	6750	8
1	6751	6752	6753	6754	6755	6756	
7	6757	6758	6759	6760	6761	6762	2
4	6763	6764	6765	6766	6767	6768	8
	6769	6770	6771	6772	6773	6774	5
	6775	6776	6777	6778	6779	6780	2
4	6781	6782	6783	6784	6785	6786	
	6787	6788	6789	6790	6791	6792	5
7	6793	6794	6795	6796	6797	6798	
4	6799	6800	6801	6802	6803	6804	8
	6805	6806	6807	6808	6809	6810	
	6811	6812	6813	6814	6815	6816	
4	6817	6818	6819	6820	6821	6822	8
1	6823	6824	6825	6826	6827	6828	5
7	6829	6830	6831	6832	6833	6834	2
	6835	6836	6837	6838	6839	6840	
1	6841	6842	6843	6844	6845	6846	
7	6847	6848	6849	6850	6851	6852	2
	6853	6854	6855	6856	6857	6858	8
1	6859	6860	6861	6862	6863	6864	5
	6865	6866	6867	6868	6869	6870	2
4	6871	6872	6873	6874	6875	6876	
1	6877	6878	6879	6880	6881	6882	
7	6883	6884	6885	6886	6887	6888	2
4	6889	6890	6891	6892	6893	6894	8
	6895	6896	6897	6898	6899	6900	5
7	6901	6902	6903	6904	6905	6906	
4	6907	6908	6909	6910	6911	6912	8
1	6913	6914	6915	6916	6917	6918	5
	6919	6920	6921	6922	6923	6924	
	6925	6926	6927	6928	6929	6930	8

Graph table 1

In each Sector there are 480 simple prime numbers-11. And in the Total Pattern there is the triple, Then there are 1440 Simple Primes numbers-11.
Nps= Simple Prime Numbers-11

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-11 by **Sector**.

Nps= Simple Prime Numbers-11

$$Sector\ 1 \sum_{Nps \geq 1}^{2310} 480\ Simple\ \text{prime}\ numbers - 11 = 554.400$$

$$Sector\ 2 \sum_{Nps \geq 2311}^{4620} 480\ Simple\ \text{prime}\ numbers - 11 = 1.663.200 \qquad \text{Difference } 1.108.800$$

$$Sector\ 3 \sum_{Nps \geq 4621}^{6930} 480\ Simple\ \text{prime}\ numbers - 11 = 2.772.000 \qquad \text{Difference } 1.108.800$$

Total

$$11 - Golden\ Pattern \sum_{Nps \geq 1}^{6930} 1440\ Simple\ Prime\ numbers - 11 = 4.989.600$$

Conclusion 1

Each SECTOR is multiple x3, x5 with respect to the first. Also to infinity if we are adding 2310 next numbers (x7, x9, x11, etc.)

The Diff.1.108.800 are repeated for every 2310 numbers. The difference is equal to the sum of **simple prime number-11 of Sector 1** by two.
The total is equal to the sum of **simple prime number-11 of Sector 1** by 9.
Total= 4.989.600=554.400*9

2) Addition of Composite numbers-11 by Sector (only composite numbers divisible by numbers greater than 3, column A, B)

Nc= Composite Numbers-11

$$Sector\ 1 \sum_{Nc \geq 1}^{2310} 290\ \text{Composite}\ numbers - 11 = 334.950$$

$$Sector\ 2 \sum_{Nc \geq 2311}^{4620} 290\ \text{Composite}\ numbers - 11 = 1.004.850 \qquad \text{Difference } 669.900$$

$$Sector\ 3 \sum_{Nc \geq 4621}^{6930} 290\ \text{Composite}\ numbers - 11 = 1.674.750 \qquad \text{Difference } 669.900$$

Total

$$11 - Golden\ Pattern \sum_{Nc \geq 1}^{6930} 870\ Composite\ numbers - 11 = 3.014.550$$

Conclusion 2

Each SECTOR is multiple x3, x5 with respect to the first. Also to infinity if we are adding 2310 next numbers (x7, x9, x11, etc.).
The Diff.669.900 are repeated for every 2310 numbers. The difference is equal to the sum of **simple composite number-11 of Sector 1** by 2.
The total is equal to the sum of **simple composite number-11 of Sector 1** by 9.

Total =3.014.550=334.950*9

11-Golden Pattern , Simple Prime number-11

We can observe how the numbers are arranged in two columns, to the left the simple prime numbers-11 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 6930 numbers. This works to infinity. If we started from 6931 we would obtain the following table up to 13860 in which we would find that the locations of the yellow colors (simple prime numbers-11) and red (Simple composite numbers-11) coincide in 100% of the cases.

The 11-Golden pattern keeps the colors in the same location and also the numbers match their reductions.

Example

1=1

6931=6+9+3+1=19, 1+9=10, 1+0=**1**

Red: Reduction (sum of the digits of simple prime numbers-11)

Reduced Table of the 11-Golden Pattern of 1 to 6930

Red	11-Golden Pattern to 1050						Red
1	1	2	3	4	5	6	
	7	8	9	10	11	12	
4	13	14	15	16	17	18	8
1	19	20	21	22	23	24	5
	25	26	27	28	29	30	2
4	31	32	33	34	35	36	
1	37	38	39	40	41	42	5
7	43	44	45	46	47	48	2
	49	50	51	52	53	54	8
	55	56	57	58	59	60	5
7	61	62	63	64	65	66	
4	67	68	69	70	71	72	8
1	73	74	75	76	77	78	
7	79	80	81	82	83	84	2
	85	86	87	88	89	90	8
	91	92	93	94	95	96	
7	97	98	99	100	101	102	2
4	103	104	105	106	107	108	8
1	109	110	111	112	113	114	5
	115	116	117	118	119	120	
	121	122	123	124	125	126	
1	127	128	129	130	131	132	5
	133	134	135	136	137	138	2
4	139	140	141	142	143	144	
	145	146	147	148	149	150	5
7	151	152	153	154	155	156	
4	157	158	159	160	161	162	
1	163	164	165	166	167	168	5
7	169	170	171	172	173	174	2
	175	176	177	178	179	180	8
1	181	182	183	184	185	186	
	187	188	189	190	191	192	2
4	193	194	195	196	197	198	8
1	199	200	201	202	203	204	
	205	206	207	208	209	210	
4	211	212	213	214	215	216	
	217	218	219	220	221	222	5
7	223	224	225	226	227	228	2
4	229	230	231	232	233	234	8
	235	236	237	238	239	240	5
7	241	242	243	244	245	246	
4	247	248	249	250	251	252	8
	253	254	255	256	257	258	5
	259	260	261	262	263	264	2
	265	266	267	268	269	270	8
1	271	272	273	274	275	276	
7	277	278	279	280	281	282	2
4	283	284	285	286	287	288	
1	289	290	291	292	293	294	5
	295	296	297	298	299	300	2

Reduced Table of the next Pattern of 6931 to 13860.

Red	Next Pattern to 7980						Red
1	6931	6932	6933	6934	6935	6936	
	6937	6938	6939	6940	6941	6942	
4	6943	6944	6945	6946	6947	6948	8
1	6949	6950	6951	6952	6953	6954	5
	6955	6956	6957	6958	6959	6960	2
4	6961	6962	6963	6964	6965	6966	
1	6967	6968	6969	6970	6971	6972	5
7	6973	6974	6975	6976	6977	6978	2
	6979	6980	6981	6982	6983	6984	8
	6985	6986	6987	6988	6989	6990	5
7	6991	6992	6993	6994	6995	6996	
4	6997	6998	6999	7000	7001	7002	8
1	7003	7004	7005	7006	7007	7008	
7	7009	7010	7011	7012	7013	7014	2
	7015	7016	7017	7018	7019	7020	8
	7021	7022	7023	7024	7025	7026	
7	7027	7028	7029	7030	7031	7032	2
4	7033	7034	7035	7036	7037	7038	8
1	7039	7040	7041	7042	7043	7044	5
	7045	7046	7047	7048	7049	7050	
	7051	7052	7053	7054	7055	7056	
1	7057	7058	7059	7060	7061	7062	5
	7063	7064	7065	7066	7067	7068	2
4	7069	7070	7071	7072	7073	7074	
	7075	7076	7077	7078	7079	7080	5
7	7081	7082	7083	7084	7085	7086	
4	7087	7088	7089	7090	7091	7092	
1	7093	7094	7095	7096	7097	7098	5
7	7099	7100	7101	7102	7103	7104	2
	7105	7106	7107	7108	7109	7110	8
1	7111	7112	7113	7114	7115	7116	
	7117	7118	7119	7120	7121	7122	2
4	7123	7124	7125	7126	7127	7128	8
1	7129	7130	7131	7132	7133	7134	
	7135	7136	7137	7138	7139	7140	
4	7141	7142	7143	7144	7145	7146	
	7147	7148	7149	7150	7151	7152	5
7	7153	7154	7155	7156	7157	7158	2
4	7159	7160	7161	7162	7163	7164	8
	7165	7166	7167	7168	7169	7170	5
7	7171	7172	7173	7174	7175	7176	
4	7177	7178	7179	7180	7181	7182	8
	7183	7184	7185	7186	7187	7188	5
	7189	7190	7191	7192	7193	7194	2
	7195	7196	7197	7198	7199	7200	8
1	7201	7202	7203	7204	7205	7206	
7	7207	7208	7209	7210	7211	7212	2
4	7213	7214	7215	7216	7217	7218	
1	7219	7220	7221	7222	7223	7224	5
	7225	7226	7227	7228	7229	7230	2

	301	302	303	304	305	306	
1	307	308	309	310	311	312	5
7	313	314	315	316	317	318	2
	319	320	321	322	323	324	8
	325	326	327	328	329	330	
7	331	332	333	334	335	336	
4	337	338	339	340	341	342	
	343	344	345	346	347	348	5
7	349	350	351	352	353	354	2
	355	356	357	358	359	360	8
1	361	362	363	364	365	366	
7	367	368	369	370	371	372	
4	373	374	375	376	377	378	8
1	379	380	381	382	383	384	5
	385	386	387	388	389	390	2
4	391	392	393	394	395	396	
1	397	398	399	400	401	402	5
7	403	404	405	406	407	408	
4	409	410	411	412	413	414	
	415	416	417	418	419	420	5
7	421	422	423	424	425	426	
	427	428	429	430	431	432	8
1	433	434	435	436	437	438	5
7	439	440	441	442	443	444	2
	445	446	447	448	449	450	8
	451	452	453	454	455	456	
7	457	458	459	460	461	462	2
4	463	464	465	466	467	468	8
	469	470	471	472	473	474	
	475	476	477	478	479	480	2
4	481	482	483	484	485	486	
1	487	488	489	490	491	492	5
7	493	494	495	496	497	498	
4	499	500	501	502	503	504	8
	505	506	507	508	509	510	5
	511	512	513	514	515	516	
	517	518	519	520	521	522	8
1	523	524	525	526	527	528	5
7	529	530	531	532	533	534	2
	535	536	537	538	539	540	
1	541	542	543	544	545	546	
7	547	548	549	550	551	552	2
	553	554	555	556	557	558	8
1	559	560	561	562	563	564	5
	565	566	567	568	569	570	2
4	571	572	573	574	575	576	
1	577	578	579	580	581	582	
	583	584	585	586	587	588	2
4	589	590	591	592	593	594	8
	595	596	597	598	599	600	5
7	601	602	603	604	605	606	
4	607	608	609	610	611	612	8
1	613	614	615	616	617	618	5
7	619	620	621	622	623	624	
	625	626	627	628	629	630	8
1	631	632	633	634	635	636	
	637	638	639	640	641	642	2
4	643	644	645	646	647	648	8
	649	650	651	652	653	654	5
	655	656	657	658	659	660	2
4	661	662	663	664	665	666	
1	667	668	669	670	671	672	
7	673	674	675	676	677	678	2
	679	680	681	682	683	684	8
	685	686	687	688	689	690	5
7	691	692	693	694	695	696	
4	697	698	699	700	701	702	8
1	703	704	705	706	707	708	
7	709	710	711	712	713	714	2
	715	716	717	718	719	720	8

	7231	7232	7233	7234	7235	7236	
1	7237	7238	7239	7240	7241	7242	5
7	7243	7244	7245	7246	7247	7248	2
	7249	7250	7251	7252	7253	7254	8
	7255	7256	7257	7258	7259	7260	
7	7261	7262	7263	7264	7265	7266	
4	7267	7268	7269	7270	7271	7272	
	7273	7274	7275	7276	7277	7278	5
7	7279	7280	7281	7282	7283	7284	2
	7285	7286	7287	7288	7289	7290	8
1	7291	7292	7293	7294	7295	7296	
7	7297	7298	7299	7300	7301	7302	
4	7303	7304	7305	7306	7307	7308	8
1	7309	7310	7311	7312	7313	7314	5
	7315	7316	7317	7318	7319	7320	2
4	7321	7322	7323	7324	7325	7326	
1	7327	7328	7329	7330	7331	7332	5
7	7333	7334	7335	7336	7337	7338	
4	7339	7340	7341	7342	7343	7344	
	7345	7346	7347	7348	7349	7350	5
7	7351	7352	7353	7354	7355	7356	
	7357	7358	7359	7360	7361	7362	8
1	7363	7364	7365	7366	7367	7368	5
7	7369	7370	7371	7372	7373	7374	2
	7375	7376	7377	7378	7379	7380	8
	7381	7382	7383	7384	7385	7386	
7	7387	7388	7389	7390	7391	7392	2
4	7393	7394	7395	7396	7397	7398	8
	7399	7400	7401	7402	7403	7404	
	7405	7406	7407	7408	7409	7410	2
4	7411	7412	7413	7414	7415	7416	
1	7417	7418	7419	7420	7421	7422	5
7	7423	7424	7425	7426	7427	7428	
4	7429	7430	7431	7432	7433	7434	8
	7435	7436	7437	7438	7439	7440	5
	7441	7442	7443	7444	7445	7446	
	7447	7448	7449	7450	7451	7452	8
1	7453	7454	7455	7456	7457	7458	5
7	7459	7460	7461	7462	7463	7464	2
	7465	7466	7467	7468	7469	7470	
1	7471	7472	7473	7474	7475	7476	
7	7477	7478	7479	7480	7481	7482	2
	7483	7484	7485	7486	7487	7488	8
1	7489	7490	7491	7492	7493	7494	5
	7495	7496	7497	7498	7499	7500	2
4	7501	7502	7503	7504	7505	7506	
1	7507	7508	7509	7510	7511	7512	
	7513	7514	7515	7516	7517	7518	2
4	7519	7520	7521	7522	7523	7524	8
	7525	7526	7527	7528	7529	7530	5
7	7531	7532	7533	7534	7535	7536	
4	7537	7538	7539	7540	7541	7542	8
1	7543	7544	7545	7546	7547	7548	5
7	7549	7550	7551	7552	7553	7554	
	7555	7556	7557	7558	7559	7560	8
1	7561	7562	7563	7564	7565	7566	
	7567	7568	7569	7570	7571	7572	2
4	7573	7574	7575	7576	7577	7578	8
	7579	7580	7581	7582	7583	7584	5
	7585	7586	7587	7588	7589	7590	2
4	7591	7592	7593	7594	7595	7596	
1	7597	7598	7599	7600	7601	7602	
7	7603	7604	7605	7606	7607	7608	2
	7609	7610	7611	7612	7613	7614	8
	7615	7616	7617	7618	7619	7620	5
7	7621	7622	7623	7624	7625	7626	
4	7627	7628	7629	7630	7631	7632	8
1	7633	7634	7635	7636	7637	7638	
7	7639	7640	7641	7642	7643	7644	2
	7645	7646	7647	7648	7649	7650	8

	721	722	723	724	725	726	
7	727	728	729	730	731	732	2
4	733	734	735	736	737	738	
1	739	740	741	742	743	744	5
	745	746	747	748	749	750	
4	751	752	753	754	755	756	
1	757	758	759	760	761	762	5
	763	764	765	766	767	768	2
4	769	770	771	772	773	774	8
	775	776	777	778	779	780	5
	781	782	783	784	785	786	
4	787	788	789	790	791	792	
1	793	794	795	796	797	798	5
7	799	800	801	802	803	804	
	805	806	807	808	809	810	8
1	811	812	813	814	815	816	
7	817	818	819	820	821	822	2
4	823	824	825	826	827	828	8
1	829	830	831	832	833	834	
	835	836	837	838	839	840	2
4	841	842	843	844	845	846	
	847	848	849	850	851	852	5
7	853	854	855	856	857	858	2
4	859	860	861	862	863	864	8
	865	866	867	868	869	870	
7	871	872	873	874	875	876	
4	877	878	879	880	881	882	8
1	883	884	885	886	887	888	5
	889	890	891	892	893	894	2
	895	896	897	898	899	900	8
1	901	902	903	904	905	906	
7	907	908	909	910	911	912	2
	913	914	915	916	917	918	
1	919	920	921	922	923	924	5
	925	926	927	928	929	930	2
	931	932	933	934	935	936	
1	937	938	939	940	941	942	5
7	943	944	945	946	947	948	2
4	949	950	951	952	953	954	8
	955	956	957	958	959	960	
7	961	962	963	964	965	966	
4	967	968	969	970	971	972	8
	973	974	975	976	977	978	5
	979	980	981	982	983	984	2
	985	986	987	988	989	990	8
1	991	992	993	994	995	996	
7	997	998	999	1000	1001	1002	
4	1003	1004	1005	1006	1007	1008	8
1	1009	1010	1011	1012	1013	1014	5
	1015	1016	1017	1018	1019	1020	2
4	1021	1022	1023	1024	1025	1026	
1	1027	1028	1029	1030	1031	1032	5
7	1033	1034	1035	1036	1037	1038	2
4	1039	1040	1041	1042	1043	1044	
	1045	1046	1047	1048	1049	1050	5

	7651	7652	7653	7654	7655	7656	
7	7657	7658	7659	7660	7661	7662	2
4	7663	7664	7665	7666	7667	7668	
1	7669	7670	7671	7672	7673	7674	5
	7675	7676	7677	7678	7679	7680	
4	7681	7682	7683	7684	7685	7686	
1	7687	7688	7689	7690	7691	7692	5
	7693	7694	7695	7696	7697	7698	2
4	7699	7700	7701	7702	7703	7704	8
	7705	7706	7707	7708	7709	7710	5
	7711	7712	7713	7714	7715	7716	
4	7717	7718	7719	7720	7721	7722	
1	7723	7724	7725	7726	7727	7728	5
7	7729	7730	7731	7732	7733	7734	
	7735	7736	7737	7738	7739	7740	8
1	7741	7742	7743	7744	7745	7746	
7	7747	7748	7749	7750	7751	7752	2
4	7753	7754	7755	7756	7757	7758	8
1	7759	7760	7761	7762	7763	7764	
	7765	7766	7767	7768	7769	7770	2
4	7771	7772	7773	7774	7775	7776	
	7777	7778	7779	7780	7781	7782	5
7	7783	7784	7785	7786	7787	7788	2
4	7789	7790	7791	7792	7793	7794	8
	7795	7796	7797	7798	7799	7800	
7	7801	7802	7803	7804	7805	7806	
4	7807	7808	7809	7810	7811	7812	8
1	7813	7814	7815	7816	7817	7818	5
	7819	7820	7821	7822	7823	7824	2
	7825	7826	7827	7828	7829	7830	8
1	7831	7832	7833	7834	7835	7836	
7	7837	7838	7839	7840	7841	7842	2
	7843	7844	7845	7846	7847	7848	
1	7849	7850	7851	7852	7853	7854	5
	7855	7856	7857	7858	7859	7860	2
	7861	7862	7863	7864	7865	7866	
1	7867	7868	7869	7870	7871	7872	5
7	7873	7874	7875	7876	7877	7878	2
4	7879	7880	7881	7882	7883	7884	8
	7885	7886	7887	7888	7889	7890	
7	7891	7892	7893	7894	7895	7896	
4	7897	7898	7899	7900	7901	7902	8
	7903	7904	7905	7906	7907	7908	5
	7909	7910	7911	7912	7913	7914	2
	7915	7916	7917	7918	7919	7920	8
1	7921	7922	7923	7924	7925	7926	
7	7927	7928	7929	7930	7931	7932	
4	7933	7934	7935	7936	7937	7938	8
1	7939	7940	7941	7942	7943	7944	5
	7945	7946	7947	7948	7949	7950	2
4	7951	7952	7953	7954	7955	7956	
1	7957	7958	7959	7960	7961	7962	5
7	7963	7964	7965	7966	7967	7968	2
4	7969	7970	7971	7972	7973	7974	
	7975	7976	7977	7978	7979	7980	5

Graph table 2

Reference A008365 The On-Line Encyclopedia of Integer Sequences

3) Simple Prime Numbers-11 by Pattern

Nps= Simple Prime Numbers-11

$$\text{Golden Pattern} - 11 \sum_{Nps \geq 1}^{6930} 1440\ \textit{Simple Prime numbers} - 11$$

$$\textit{Pattern } 2 \sum_{Nps \geq 1}^{13.860} 2880\ \textit{Simple Prime numbers} - 11$$

$$\textit{Pattern } 3 \sum_{Nps \geq 1}^{20790} 4320\ \textit{Simple Prime Numbers} - 11$$

Conclusion 3

It is repeated to infinity every 6930 numbers. The 11-Golden Pattern is multiplied by x2, x3, x4, x5, etc. with respect to the following patterns.

4) Addition Simple Primes Numbers-11 by Pattern

Nps= Simple Prime Numbers-11

$$11 - \text{Golden Pattern} \sum_{Nps \geq 1}^{6930} = 4.989.600$$

$$\textit{Pattern } 2 \sum_{Nps \geq 6931}^{13860} = 14.968.800$$ Difference with the **11 − Golden Pattern is** x3

$$\textit{Pattern } 3 \sum_{Nps \geq 13861}^{20790} = 24.948.000$$ Difference with the **11 − Golden Pattern** is x5

Conclusion 4

The model continues to multiply and is repeated to infinity every 6930 numbers. (Odd Multiples for totals, x3, x5, x7,x9, etc.)
The Difference with the previous value in all cases is 9.979.200.

The model continues to multiply and is repeated to infinity every 6930 numbers. (Odd Multiples for totals, x3, x5, x7,x9, etc.)
Difference with the previous value in all cases is 9.979.200. The Difference are repeated for every 6930 numbers.
The difference is equal to the sum of simple prime number-5 of 5-Golden Pattern by two.

5) Addition Simple Primes Numbers-11 by Pattern in total

Nps= Simple Prime Numbers-11

$$1440 \text{ simple prime number in } 11 - \text{Golden Pattern} \sum_{Nps \geq 1}^{6930} = 4.989.600$$

$$2880 \text{ simple prime number} - 11\ \textit{to Pattern } 2 \sum_{Nps \geq 1}^{13860} = 19.958.400$$ Difference with the **11 − Golden Pattern** is **x 4**

$$4320 \text{ simple prime number} - 11\ \textit{to Pattern } 3 \sum_{Nps \geq 1}^{20790} = 44.906.400$$ Difference with the **11 − Golden Pattern** is **x 9**

$$5760 \text{ simple prime number} - 11\ \textit{to Pattern } 4 \sum_{Nps \geq 1}^{27720} = 79.833.600$$ Difference with the **11 − Golden Pattern** is **x 16**

$$7200 \text{ simple prime number} - 11\ \textit{to Pattern } 5 \sum_{Nps \geq 1}^{34650} = 124.740.000$$ Difference with the **11 − Golden Pattern** is **x 25**

Conclusion 5

The model continues to multiply and is repeated to infinity every 6930 numbers. (Odd Multiples for totals, x4, x9, x16,x 25, etc.).

The differences work with the formula x^2

Example

11-Golden Pattern $1^2 = \mathbf{1}$

Pattern 2= 2^2=**4**

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

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

Pattern 5= 5^2= **25**

6) Addition of Composite numbers-11 by Pattern (only composite numbers divisible by numbers greater than 3)

Nc= Composite Numbers-11

$$11 - \text{Golden Pattern} \sum_{Nc\geq1}^{6930} 870\ composite\ number - 11 = \quad 3.014.550$$

$$Pattern\ 2 \sum_{Nc\geq6931}^{13860} 870\ composite\ number - 11 = 9.043.650$$ Difference with the 11 − Golden Pattern is x3

$$Pattern\ 3 \sum_{Nc\geq13861}^{20790} 870\ composite\ number - 11 = 15.072.750$$ Difference with the 11 − Golden Pattern is x5

Conclusion 6

There is also a difference between each Pattern of 6.029.100, these is equal to the sum of the numbers composite-11 by 2.
We could keep multiplying, x7, x9, x11, etc. To infinity every 6930 more numbers.

7) Addition of composite Numbers-11 by Pattern in total, (only composite numbers divisible by numbers greater than 3)

Nc= Composite Numbers-11

$$870\ \text{Composite number in 11} - \text{Golden Pattern} \sum_{Nc\geq1}^{6930} = 3.014.550$$

$$1740\ Composite\ number - 11\ \ to\ Pattern\ 2 \sum_{Nc\geq1}^{13860} = 12.058.200$$ Difference with the **11 − Golden Pattern** is **x 4**

$$2610\ Composite\ number - 11\ \ to\ Pattern\ 3 \sum_{Nc\geq1}^{20790} = 27.130.950$$ Difference with the **11 − Golden Pattern** is **x 9**

Conclusion 7

The number of composite number-11 is related to the next pattern every 870 more numbers.
The model continues to multiply and is repeated to infinity every 6930 numbers. (Odd Multiples for totals, x4, x9, x16,x 25, etc.).

The differences work with the formula x^2

Example

Golden Pattern $1^2 = \mathbf{1}$

Pattern 2= 2^2=**4**

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

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

Pattern 5= 5^2= **25**

Demonstration 1

Formula to get simple prime number-11

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

On the left we will calculate the simple prime number-11 located in (A), on the right we will calculate the prime numbers located in (B).

$P_{11\ (A)}$= $S.Prime\ numbers - 11\ in\ column(A)$ $Z = numbers \geq 0$	$P_{11\ (B)}$ = $S.Prime\ numbers - 11\ in\ column\ (B)$ $Z = numbers \geq 0$

$P_{11\,(A)} = (6 * n_{\substack{n \geq 0 \\ n \neq 4+5*Z \\ n \neq 1+7*Z \\ n \neq 9+11*Z}} + 1)$ $n \neq 1,4,8,9,14,15,19,20,22, \dots \dots ..$ **Using values correct for:** $n = 0,2,3,5,6,7,10,11,12,13, \dots.$ **We get the following Simple prime numbers-11.** $P_{11\,(A)} = 1,13,19,31,37,43,61,67,73,79,97, \dots .$	$P_{11\,(B)} = (6 * n_{\substack{n > 2 \\ n \neq 6+5*Z \\ n \neq 6+7*Z \\ n \neq 13+11*Z}} - 1)$ $n \neq 6,11,13,16,20,21,22, \dots \dots ..$ **Using correct values for** $n = 3,4,5,7,8,9,10,12,14,15, \dots$ **We get the following Simple prime numbers-11.** $P_{11\,(B)} = 17,23,29,41,47,53,59,71,83,89,101, \dots$

The formula for calculating the Simple Prime numbers-11 is based on Zeolla Gabriel's paper on how to obtain prime numbers. http://vixra.org/abs/1801.0093
Reference A008365 The On-Line Encyclopedia of Integer Sequences

Demonstration 2
Formula to get simple composite number-11

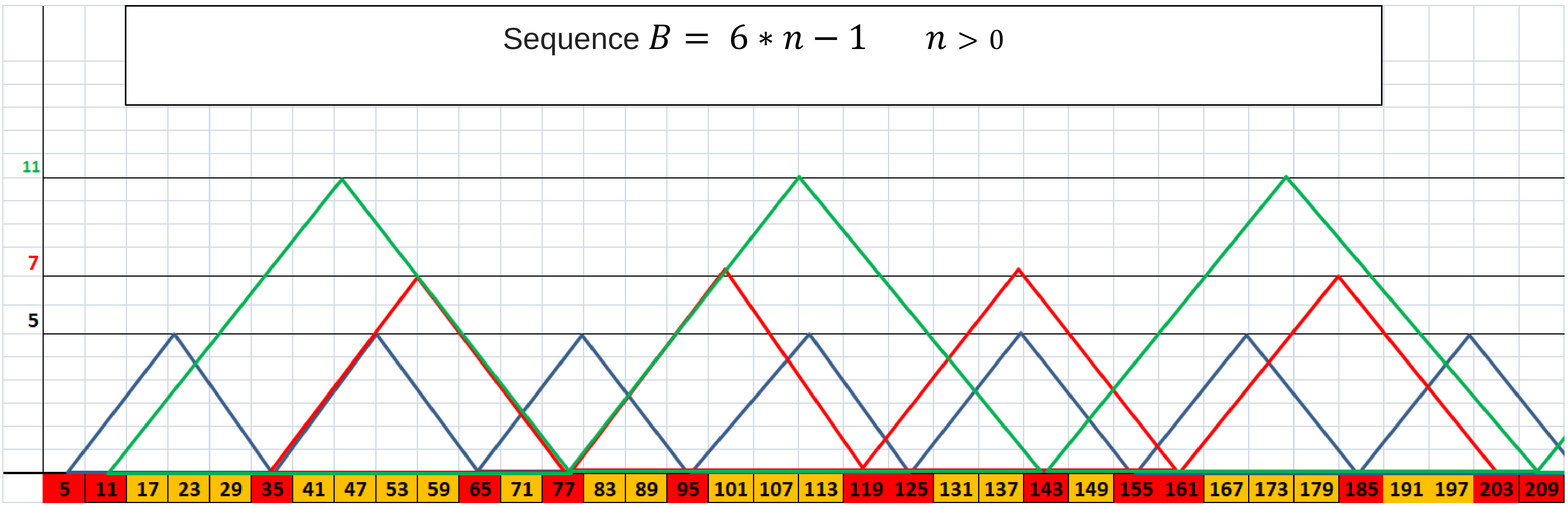
Example and demonstration of the formula is divided into 2 columns.

On the left we will calculate the simple composite number-11 located in (A), on the right we will calculate the composite numbers located in (B).

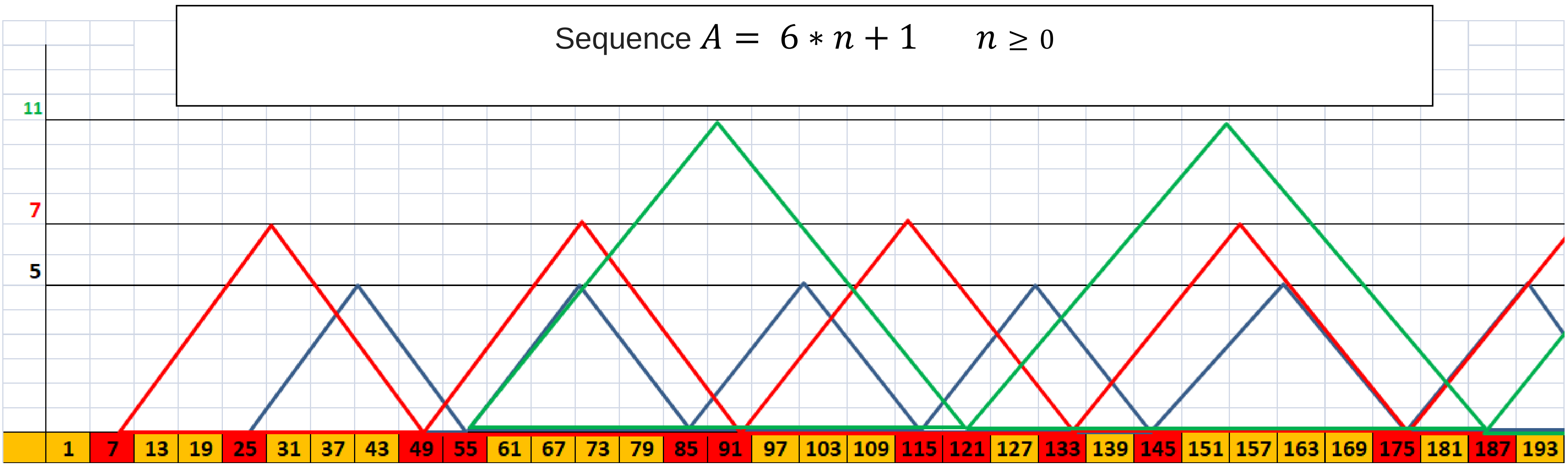
$Nc_{11\,(A)} = S.Composite\ numbers - 11$ $in\ column (A)$ $Z = numbers \geq 0$	$Nc_{11\,(B)} = S.Composite\ numbers - 11$ $in\ column\ (B)$ $Z = numbers \geq 0$
$Nc_{11\,(A)} = (6 * n_{\substack{n = 4+5*Z \\ n = 1+7*Z \\ n = 9+11*Z}} + 1)$ $n = 1,4,8,9,14,15,20, \dots.$ **We get the following S. Composite numbers-11.** $Nc_{11\,(A)} = 7,25,49,55,85,91,115,121, \dots .$	$Nc_{11\,(B)} = (6 * n_{\substack{n = 2 \\ n = 1+5*Z \\ n = 6+7*Z \\ n = 13+11*Z}} - 1)$ $n = 1,2,6,11,13,16,20, \dots \dots$ **We get the following S. Composite numbers-11.** $Nc_{11\,(B)} = 5,11,35,65,77,95,119, \dots$

Graphics

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



Graphic 3
Reference A016969 (The On-line Enciclopedia of integers sequences)



Graphic 4

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

Final conclusion

The 11-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 and 11 is very great. The number 1 is necessary and generates balance. Simple Prime Numbers-11 are a family prior to the Classical Prime Numbers.
The sum of the composite numbers-11 and the simple prime numbers-11 demonstrate incredible proportions that indicate that they have a fractal behavior.
The reductions of the Golden Pattern are infinitely repeated every 6930 numbers.
The proportions of the 11-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-11 works successfully, we only have to condition (n) to obtain the expected results.
I can affirm that there are infinite different patterns with prime divisors, which maintain a great harmony between columns A, B, they are always in balance, they present infinite propriations, fractal symmetries, All patterns have the same procedure. They are all different and they are very linked.

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