

Table 142:8y series

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p	z=Mp	x=2 <sup>p-1</sup>	PN = xz	y=x-1	8y	n=2 <sup>p-4</sup>	8yn=CR=xy
2	3	2	6	1	8	0.25	2
3	7	4	28	3	24	0.5	12
4	15	8	120	7	56	1	56
5	31	16	496	15	120	2	240
6	63	32	2016	31	248	4	992
7	127	64	8128	63	504	8	4032
8	255	128	32640	127	1016	16	16256
9	511	256	130816	255	2040	32	65280
10	1023	512	523776	511	4088	64	261632
11	2047	1024	2096128	1023	8184	128	1047552
12	4095	2048	8386560	2047	16376	256	4192256
13	8191	4096	33550336	4095	32760	512	16773120
14	16383	8192	134209536	8191	65528	1024	67100672
15	32767	16384	536854528	16383	131064	2048	268419072
16	65535	32768	2147450880	32767	262136	4096	1073709056
17	131071	65536	8589869056	65535	524280	8192	4294901760
18	262143	131072	34359607296	131071	1048568	16384	17179738112
19	524287	262144	137438691328	262143	2097144	32768	68719214592
31	2147483647	1073741824	2305843008139952128	1073741823	8589934584	134217728	1152921503533105152
61	230584300921 3693951	1152921504606846976	26584559915698317446 54692615953842176	1152921504606846975	9223372036854775800	144115188075855872	1.32922799578492E+36
89	618970019642 6901374495621 11	30948500982134506872 4781056	19156194260823610729 47933780843036381309 97321548169216	30948500982134506872 4781055	2.47588007857076E+27	3.86856262276681E+25	9.5780971304118E+52
107	162259276829 213363391578 010288127	81129638414606681695 789005144064	13164036458569648337 23975346045872291022 34723183869431177837 28128	81129638414606681695 789005144063	6.49037107316853E+32	1.01412048018258E+31	6.5820182292848E+63
127	1701411834604 692317316873 037158841057 27	85070591730234615865 843651857942052864	14474011154664524427 94637312608598848157 36774914748358890663 54349131199152128	85070591730234615865 843651857942052863	6.80564733841877E+38	1.06338239662793E+37	7.23700557733224E+75

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As to why we are looking at “y?” Only “p” is smaller amongst the 10-parameters that define each and every **Mersenne Prime Square (MPS)**. “y” and “z” follow very similar paths in that both are the natural Running Sums ( $\Sigma$ ) of the Exponential Power of 2 as presented in *The Butterfly Fractal 1* (and 2) as — 1-3-7-15-31-63-127-255-511-1023-2047-4095-8191-. We know that  $y=x-1$ , that’s right  $y+1=x$ .  $y=z-1/2$ , that’s right,  $2y+1=z$ .  $y=z-x$ , that’s right  $y+x=z$ .  $y=CR/x$ , that’s right  $yx=CR=xy$ ... What else can “y” tell us about the **MPS** parameters? If one multiplies “y” times  $8n$ , where  $n=2^{p-4}$  one finds it equals the  $CR=xy$  of its own “container” as  $8yn=CR=xy$ .  $n=2^{p-4}$  is really just the **BF1**. We also know that the **BF1** informs the  $PN$ , and,  $2PN=CR_{next}$ . So we have come full circle. To distinguish TRUE from Not-TRUE (“container-only”) parameters: ALL TRUE  $x/4-y/3-z/3-PN/4-CR/4$  while Not-TRUE  $x/4-y/3$  or  $y/3-z/3$ —or  $z/3-PN/4-CR/4$ . As one can see, the TRUE MPS have stricter rules than the Not-TRUE “container-only”. The “on/off” switch alternates sequentially along the “containers.”