

Table195_BF1-RunningSums-z

Table195_BF1-RunningSums-z on the tDMT: truncated Divisor Matrix Table																
#	ODDs	EVENS- NOT	ALL Running Sums (Σ) across (— —>) the ODDs Rows. EVENS													
p=1	1	3 2	7 4	15 8	31 16	63 32	127 64	255 128	511 256	1023 512	2047 1024	4095 2048	8191 4096			
p=2	3	9 6	21 12	45 24	93 48	189 96	381	765	1533	3069	6141	12285	24573			
p=3	7	21 14	49 28	105 56	217 112	441 224	889	1785	3577	7161	14329	28665	57337			
p=4	15	45 30	105 60	225 120	465 240	945 480	1905	3825	7665	15345	30705	61425	122865			
p=5	31	93 62	217 124	465 248	961 496	1953 992	3937	7905	15841	31713	63457	126945	253921			
p=6	63	189 126	441 252	945 504	1953 1008	3969 2016	8001	16065	32193	64449	128961	257985	516033			
p=7	127	381 254	889 508	1905 1016	3937 2032	8001 4064	16128 8128	32385	64897	129921	259969	520065	1040257			

Table195_BF1-RunningSums-z on the tDMT: truncated Divisor Matrix Table—12 built-in connections

- Butterfly Fractal 1 (BF1) = Row 1. Row 2 = BF1 x 3. Row 3 = BF1 x 7... All in BLACK. Running Sums across the Rows in WHITE.
- ODDs 3-7-31-127 are Mersenne Primes ($Mp=z$). ODDS 15 & 63 are “containers” that follow the pattern, but are NOT Mp ’s.
- EVENSs 6-28-496-8128 are Perfect Numbers ($PN=xz$). EVENS 120 & 4096 are “containers” that are not PN ’s.
- The Running Sum of those EVENS (SQUARE RECTANGLES) are the square of the ODDs Column and equal the $MPS=Mp^2=z^2$.
- The Σ value directly (1 STEP) above the RECTANGLE is the ODD Complement ($OC=yz$) of that MPS , as $MPS=PN+OC=xz+yz$.
- The “p” value in the first Column, besides giving the ODDs Column value ($2^p - 1 = Mp = z$), also gives the PN value: ($2^{p-1} \times 2^p - 1 = PN = xz$, where $x = 2^{p-1}$), and does so $p = \#$ of STEPS (total # of Columns starting with the ODDs Column) across to its RECTANGLE value.
- The Running Sums of Row 1 BF1 (that is also the $\sqrt{\text{of its RECTANGLE } \Sigma \text{ value}}$) gives the ODDs Column values.
- As $y = x - 1 = (z - 1) / 2$ and $x + y = z$, y is always one STEP behind the ODDs value Column or the Σ in the previous BF1 Row.
- The divisors of ANY PN within the DMT is simply that number and its previous Row number values + the same BF1 Row values.
- The divisors of ANY non- PN is the same + one must also include the composite Row values, e.i. 120 must include Row BF1, Row 3, Row 5 (not shown in the tDMT) and Row 15 values, thus 1-2-3-4-5-6-8-10-12-15-20-24-30-60-120.
- Except for PN_6 (in the EVENS NOT $\div 4$ Column), ALL PN ’s are found necessarily on every other Column (ORANGE), starting with the “4” Column — yet NOT ALL such Columns hold TRUE PN ’s (acting solely as containers). Also see Table 183: Make Mp -DMT.
- A bilateral “mirror” symmetry of the Σ ’s exists amongst the EVENS, about the central RECTANGLE diagonal values. •Using this information, the Σ ’s above the diagonal can be used to inform — predict — those below, e.i. $\Sigma 93$ — 3 STEPS over from PN_6 (under Column 16) is found 3 STEPS down the EVENS NOT $\div 4$ Column, with the $\Sigma 961$ found 3 STEPS over said Row landing on PN_{496} . SEE Tables 184-186 for even more connections.

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Table 184 Annotated

Table184 Mp-DMT Differences													
Each line in the Encircled Group above is a Triplet Color BOLD Ring													
Σ in WHITE													
p	ODDs z=Mp	EVENs- NOT÷4	SET 1	EVENs÷4									
value	1	2	4	8	16	32	64	128	256	512	1024	2048	4096
2	3	6	12	24	48	96	192	384	768	1536	3072	6144	12288
3	7	14	28	56	112	224	448	896	1792	3584	7168	14336	28672
5	31	62	124	248	496	992	1984	3968	7936	15872	31744	63488	126976
7	127	254	508	1016	2032	4064	8128	16256	32512	65024	130048	260096	520192
13	8191	16382	32764	65528	131056	262112	524224	1048448	2096896	4193792	8387584	16775168	33550336