

Table167_ODDs_EVENS_EVENS-NOT_Matrix++RSHworksheet 2

Table167: ODDs_EVENS_EVENS-NOT Matrix, a.k.a. the DMT: Divisor (Factor) Matrix Table													#2
#	ODDs	EVENS-NOT Δ6	ALL Running Sums (Σ) across (→) the ODDs Rows.										
			Δ14	Δ30	Δ62	Δ126	Δ254	Δ510	Δ1022	Δ2046	Δ4094	Δ8190	Δ16382
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
2	3	9 6	21 12	45 24	93 48	189 96	381 192	765 384	1533 768	3069 1536	6141 3072	12285 6144	24573 12288
3	5	15 10	35 20	75 40	155 80	315 160	635 320	1275 640	2555 1280	5115 2560	10235 5120	20475 10240	40955 20480
4	7	21 14	49 28	105 56	217 112	441 224	889 448	1785 896	3577 1792	7167 3584	14335 7168	28665 14336	57337 28672
5	9	27 18	63 36	135 72	279 144	567 288	1143 576	2295 1152	4599 2304	9207 4608	18423 9216	36855 18432	73719 36864
6	11	33 22	77 44	165 88	341 176	693 352	1397 704	2805 1408	5621 2816	11253 5632	22517 11264	45045 22528	90101 45056
7	13	39 26	91 52	195 104	403 208	819 416	1651 832	3315 1664	6643 3328	13299 6656	26611 13312	53235 26624	106483 53248
8	15	45 30	105 60	225 120	465 240	945 480	1905 960	3825 1920	7665 3840	15345 7680	30705 15360	61425 30720	122865 61440
9	17	51 34	119 68	255 136	527 272	1071 544	2151 1088	4335 2176	8687 4352	17391 8704	34799 17408	69615 34816	139247 69632
10	19	57 38	133 76	285 152	589 304	1197 608	2413 1216	4845 2432	9709 4864	19437 9728	38893 19456	77805 38912	155629 77824
11	21	63 42	147 84	315 168	651 336	1323 672	2667 1336	5355 2672	10731 5344	21483 10768	42987 21536	85995 43024	172011 85984
12	23	69 46	161 92	345 184	713 368	1449 736	2921 1464	5865 2928	11753 5856	23529 11744	47081 23616	94185 47232	188393 94224
13	25	75 50	175 100	375 200	775 400	1575 800	3175 1600	6375 3200	12775 6400	25575 12800	51175 25600	102375 51200	204775 102400
14	27	81 54	189 108	405 216	837 432	1701 864	3429 1716	6885 3432	13797 6864	27621 13728	55269 27456	110565 55312	221157 110624
15	29	87 58	203 116	435 232	899 464	1827 928	3683 1856	7395 3712	14819 7408	29667 14816	59363 29632	118755 59424	237539 118816
16	31	93 62	217 124	465 248	961 496	1959 1000	3937 1984	7905 3968	15841 7936	31717 15872	63457 31744	126945 63504	253921 126976
17	33	99 66	231 132	495 264	1023 528	2075 1056	4191 2112	8415 4224	16863 8448	33759 16896	67551 33824	135135 67616	270303 135232
18	35	105 70	245 140	525 280	1085 560	2205 1120	4445 2240	8925 4480	17865 8960	35751 17920	71505 35840	143015 71616	286031 143072
19	37	111	259	555	1147	2331	4699	9435	18885	37781	75571	151151	302307
20	39	117	273	585	1209	2457	4953	9945	19899	39799	79599	159199	318399
21	41	123	287	615	1271	2583	5207	10455	20919	41839	83679	167359	334719
22	43	129	301	645	1333	2709	5461	10965	21939	43879	87759	175519	351439
23	45	135	315	675	1395	2835	5715	11475	22965	45945	91899	183719	368159
24	47	141	329	705	1457	2961	5969	11985	23999	47999	95999	191999	384879
25	49	147	343	735	1519	3087	6223	12495	25039	50079	100159	200319	400639
26	51	153	357	765	1581	3213	6477	13005	26079	52159	104319	208639	417279
27	53	159	371	795	1643	3339	6731	13515	27119	54239	108479	217199	433919
28	55	165	385	825	1705	3465	6985	14025	28159	56319	112639	225759	450559
29	57	171	399	855	1767	3591	7239	14535	29199	58399	116819	234399	467199
30	59	177	413	885	1829	3717	7493	15045	30239	60479	120999	243039	483839
31	61	183	427	915	1891	3843	7747	15555	31279	62559	125199	251679	500479
32	63	189	441	945	1953	3969	8001	16065	32319	64639	129399	260319	517119
33	65	195	455	975	2015	4095	8255	16575	33359	66719	133599	268959	533759
34	67	201	469	1005	2077	4221	8509	17085	34399	68799	137799	277599	550399
35	69	207	483	1035	2139	4347	8763	17595	35439	70879	141999	286239	567039
36	71	213	497	1065	2201	4473	9017	18105	36479	72959	146199	294879	583679
37	73	219	511	1095	2263	4599	9271	18615	37519	75039	150399	303519	600319
38	75	225	525	1125	2325	4725	9525	19125	38559	77119	154599	312159	616959
39	77	231	539	1155	2387	4851	9779	19635	39599	79199	158799	320799	633599
40	79	237	553	1185	2449	4977	10033	20145	40639	81279	162999	329439	650239
41	81	243	567	1215	2511	5103	10287	20655	41679	83359	167199	338079	666879
42	83	249	581	1245	2573	5229	10541	21165	42719	85439	171399	346719	683519
43	85	255	595	1275	2635	5355	10795	21675	43759	87519	175599	355359	700159
44	87	261	609	1305	2697	5481	11049	22185	44799	89599	179799	364000	716799
45	89	267	623	1335	2759	5607	11303	22695	45839	91679	183999	372639	733439
46	91	273	637	1365	2821	5733	11557	23205	46879	93759	188199	381279	750079
47	93	279	651	1395	2883	5859	11811	23715	47919	95839	192399	389919	766719
48	95	285	665	1425	2945	5985	12065	24225	48959	97919	196599	398559	783359
49	97	291	679	1455	3007	6111	12319	24735	50000	100000	200000	400000	800000
50	99	297	693	1485	3069	6237	12573	25245	51040	102080	204160	408320	816640
51	101	303	707	1515	3131	6363	12827	25755	52080	104160	208320	416640	833280
52	103	309	721	1545	3193	6489	13081	26265	53120	106240	212480	425000	850000
53	105	315	735	1575	3255	6615	13335	26775	54160	108320	216640	433760	866720
54	107	321	749	1605	3317	6741	13589	27285	55200	110400	220800	442520	883440
55	109	327	763	1635	3379	6867	13843	27795	56240	112480	224960	451280	900160
56	111	333	777	1665	3441	6993	14097	28305	57280	114560	229120	460040	916880
57	113	339	791	1695	3503	7119	14351	28815	58320	116640	233280	468800	933600
58	115	345	805	1725	3565	7245	14605	29325	59360	118720	237440	477560	950320
59	117	351	819	1755	3627	7371	14859	29835	60400	120800	241600	486320	967040
60	119	357	833	1785	3689	7497	15113	30345	61440	122880	245760	495080	983760
61	121	363	847	1815	3751	7623	15367	30855	62480	124960	249920	503840	1000480
62	123	369	861	1845	3813	7749	15621	31365	63520	127040	254080	512600	1017200
63	125	375	875	1875	3875	7875	15875	31875	64560	129120	258240	521360	1033920
64	127	381	889	1905	3937	8001	16129	32385	65600	131200	262400	530120	1050640
255	765	1785	3825	7905	16065	32385	65025	130305	260865	521985	1044225	2088705	
511	1533	3577	7665	15841	32193	64897	130305	261121	522753	1046017	2092545	4185601	
1023	3069	7161	15345	31713	64449	129921	260865	522753	1046529	2094081	4189185	8379393	
2047	6141	14329	30705	63457	128961	259965	521985	1046017	2094081	4190209	8382465	16766977	
4095	12285	28665	61425	126945	257985	520065	1044225	2092545	4189185	8382465	16769025	33542145	
8191	24573	57337	122865	253921	516033	1040257	2088705	4185601	8379393	16766977	33542145	67092481	

All 10 profiling parameters of the Mersenne Prime-Perfect Number pairings that one finds on the BIM can also be found on the DMT.

Example: p=5 x=16 y=15 z=Mp=31
 $x^2=256$ $y^2=225$ $z^2=MPS=961$
 $xz=PN=496$ $yz=OC=465$ $xy=CR=240$

To do so, one must look at the table proper values and their Running Sums (Σ).

If one multiplies the p-value • z=Mp the product is some portion (y/p) of the yz=OC value.

$[(pz)y/p]=yz=OC$

and, as $yz+z=xz=PN$

then

$[(pz)y/p] + z=xz=PN$

and eliminating the "p" solves the same

$[(z)y] + z=xz=PN$

The p-value--that here stands for the Exponential Power of 2 -1 and may be a TRUE Prime or a "container"--also functions to indicate the number (#) of STEPS across the DMT. The "bookends" of these STEPS will be the ODDs and the EVENS Not÷4/EVENS÷4 that hold the PN. Between will be the STEP values of the Σs.

Example: p=5

One can find the Σ by adding z+2(z)

$31+2(31)=93$
 $31+2(93)=217$
 $31+2(217)=465=yz=OC$
 $v+2(1905)=3937$

If one adds up only the Σs inside the bookends -- but NOT the yz=OC -- and adds p+1 # of z values, one gets the PN!

$93+217=310$
 $p=5$, so p