

Note that when a number ends with the same digit the groupings across have the same pattern. Note the “+1” on some of the numbers in the table below, these are the numbers with one more count than the rest in that group.

Number = <u>61</u>	Number = <u>131</u>	Number = <u>181</u>	Number = <u>461</u>	Number = <u>491</u>
0 = 6	0 = 13	0 = 18	0 = 46	0 = 49
1 = 6	1 = 13	1 = 18	1 = 46	1 = 49
2 = 6	2 = 13	2 = 18	2 = 46	2 = 49
3 = 6	3 = 13	3 = 18	3 = 46	3 = 49
4 = 6	4 = 13	4 = 18	4 = 46	4 = 49
5 = 6	5 = 13	5 = 18	5 = 46	5 = 49
6 = 6	6 = 13	6 = 18	6 = 46	6 = 49
7 = 6	7 = 13	7 = 18	7 = 46	7 = 49
8 = 6	8 = 13	8 = 18	8 = 46	8 = 49
9 = 6	9 = 13	9 = 18	9 = 46	9 = 49

Number = <u>23</u>	Number = <u>113</u>	Number = <u>193</u>	Number = <u>223</u>	Number = <u>433</u>
0 = 2	0 = 11	0 = 19	0 = 22	0 = 43
1 = 2	1 = 11	1 = 19	1 = 22	1 = 43
2 = 2	2 = 11	2 = 19	2 = 22	2 = 43
3 = 3 +1	3 = 12 +1	3 = 20 +1	3 = 23 +1	3 = 44 +1
4 = 2	4 = 11	4 = 19	4 = 22	4 = 43
5 = 2	5 = 11	5 = 19	5 = 22	5 = 43
6 = 3 +1	6 = 12 +1	6 = 20 +1	6 = 23 +1	6 = 44 +1
7 = 2	7 = 11	7 = 19	7 = 22	7 = 43
8 = 2	8 = 11	8 = 19	8 = 22	8 = 43
9 = 2	9 = 11	9 = 19	9 = 22	9 = 43

Number = <u>7</u>	Number = <u>17</u>	Number = <u>47</u>	Number = <u>97</u>	Number = <u>167</u>
0 = 0	0 = 1	0 = 4	0 = 9	0 = 16
1 = 1 +1	1 = 2 +1	1 = 5 +1	1 = 10 +1	1 = 17 +1
2 = 1 +1	2 = 2 +1	2 = 5 +1	2 = 10 +1	2 = 17 +1
3 = 0	3 = 1	3 = 4	3 = 9	3 = 16
4 = 1 +1	4 = 2 +1	4 = 5 +1	4 = 10 +1	4 = 17 +1
5 = 1 +1	5 = 2 +1	5 = 5 +1	5 = 10 +1	5 = 17 +1
6 = 0	6 = 1	6 = 4	6 = 9	6 = 16
7 = 1 +1	7 = 2 +1	7 = 5 +1	7 = 10 +1	7 = 17 +1
8 = 1 +1	8 = 2 +1	8 = 5 +1	8 = 10 +1	8 = 17 +1
9 = 0	9 = 1	9 = 4	9 = 9	9 = 16

Number = <u>19</u>	Number = <u>29</u>	Number = <u>59</u>	Number = <u>109</u>	Number = <u>149</u>
0 = 1	0 = 2	0 = 5	0 = 10	0 = 14
1 = 2 +1	1 = 3 +1	1 = 6 +1	1 = 11 +1	1 = 15 +1
2 = 2 +1	2 = 3 +1	2 = 6 +1	2 = 11 +1	2 = 15 +1
3 = 2 +1	3 = 3 +1	3 = 6 +1	3 = 11 +1	3 = 15 +1
4 = 2 +1	4 = 3 +1	4 = 6 +1	4 = 11 +1	4 = 15 +1
5 = 2 +1	5 = 3 +1	5 = 6 +1	5 = 11 +1	5 = 15 +1
6 = 2 +1	6 = 3 +1	6 = 6 +1	6 = 11 +1	6 = 15 +1
7 = 2 +1	7 = 3 +1	7 = 6 +1	7 = 11 +1	7 = 15 +1
8 = 2 +1	8 = 3 +1	8 = 6 +1	8 = 11 +1	8 = 15 +1
9 = 1	9 = 2	9 = 5	9 = 10	9 = 14

I looked into odd number in general and found that square of prime numbers like $7*7=49$ and $11*11=121$ will produce similar results like above, see the samples below. There are more samples starting at page 15 and on page 21 there is a sample of one that did not work out.

Number = 49	Number = 121	Number = 169	Number = 289	Number = 361
0 = 4	0 = 3 +1	0 = 8 +1	0 = 27	0 = 35 +1
1 = 4	1 = 2	1 = 7	1 = 27	1 = 34
2 = 4	2 = 2	2 = 8 +1	2 = 27	2 = 34
3 = 5 +1	3 = 2	3 = 8 +1	3 = 28 +1	3 = 34
4 = 4	4 = 2	4 = 8 +1	4 = 27	4 = 34
5 = 4	5 = 2	5 = 8 +1	5 = 27	5 = 34
6 = 5 +1	6 = 2	6 = 8 +1	6 = 28 +1	6 = 34
7 = 4	7 = 2	7 = 8 +1	7 = 27	7 = 34
8 = 4	8 = 2	8 = 7	8 = 27	8 = 34
9 = 4	9 = 3 +1	9 = 8 +1	9 = 27	9 = 35 +1

Here is the complete listing of all cyclic prime numbers under 10,000; I have placed them in last digit groups for easier viewing the last digit relationships. Based on the last digit the pattern will always be the same as on the samples above. This is by no means a proof and remains just an observation. See starting on page 14 where the square of these numbers create a new pattern. For the fun or it I added the Chi square value, which is mostly below 1. As part of another study I was looking at the sum of all the digits used in the repeating digits. As an observation not a proof, I concluded the sum of digits for a cyclic prime number P is $4.5 * (P - 1)$. As a sample for 7 the sum of the digits is $4.5 * (7-1)$ equals $4.5 * 6$ or 27 which is the correct value, 61 is $4.5 * (61 - 1)$ which equals 270. This equation is very easy to prove, if someone can prove that the first part is also true that the number of each digit is the pattern of the second page.

Number = 61	4 = 49	Chi Square= 0	3 = 105	9 = 129	2 = 162	8 = 214	1 = 241
0 = 6	5 = 49		4 = 105	Chi Square= 0	3 = 162	9 = 214	2 = 241
1 = 6	6 = 49	Number = 821	5 = 105		4 = 162	Chi Square= 0	3 = 241
2 = 6	7 = 49	0 = 82	6 = 105	Number = 1301	5 = 162		4 = 241
3 = 6	8 = 49	1 = 82	7 = 105	0 = 130	6 = 162	Number = 2221	5 = 241
4 = 6	9 = 49	2 = 82	8 = 105	1 = 130	7 = 162	0 = 222	6 = 241
5 = 6	Chi Square= 0	3 = 82	9 = 105	2 = 130	8 = 162	1 = 222	7 = 241
6 = 6		4 = 82	Chi Square= 0	3 = 130	9 = 162	2 = 222	8 = 241
7 = 6	Number = 541	5 = 82		4 = 130	Chi Square= 0	3 = 222	9 = 241
8 = 6	0 = 54	6 = 82	Number = 1091	5 = 130		4 = 222	Chi Square= 0
9 = 6	1 = 54	7 = 82	0 = 109	6 = 130	Number = 1741	5 = 222	
Chi Square= 0	2 = 54	8 = 82	1 = 109	7 = 130	0 = 174	6 = 222	Number = 2621
	3 = 54	9 = 82	2 = 109	8 = 130	1 = 174	7 = 222	0 = 262
	4 = 54	Chi Square= 0	3 = 109	9 = 130	2 = 174	8 = 222	1 = 262
Number = 131	5 = 54		4 = 109	Chi Square= 0	3 = 174	9 = 222	2 = 262
0 = 13	6 = 54	Number = 941	5 = 109		4 = 174	Chi Square= 0	3 = 262
1 = 13	7 = 54	0 = 94	6 = 109	Number = 1381	5 = 174		4 = 262
2 = 13	8 = 54	1 = 94	7 = 109	0 = 138	6 = 174	Number = 2251	5 = 262
3 = 13	9 = 54	2 = 94	8 = 109	1 = 138	7 = 174	0 = 225	6 = 262
4 = 13	Chi Square= 0	3 = 94	9 = 109	2 = 138	8 = 174	1 = 225	7 = 262
5 = 13		4 = 94	Chi Square= 0	3 = 138	9 = 174	2 = 225	8 = 262
6 = 13	Number = 571	5 = 94		4 = 138	Chi Square= 0	3 = 225	9 = 262
7 = 13	0 = 57	6 = 94	Number = 1171	5 = 138		4 = 225	Chi Square= 0
8 = 13	1 = 57	7 = 94	0 = 117	6 = 138	Number = 1811	5 = 225	
9 = 13	2 = 57	8 = 94	1 = 117	7 = 138	0 = 181	6 = 225	Number = 2731
Chi Square= 0	3 = 57	9 = 94	2 = 117	8 = 138	1 = 181	7 = 225	0 = 273
	4 = 57	Chi Square= 0	3 = 117	9 = 138	2 = 181	8 = 225	1 = 273
Number = 181	5 = 57		4 = 117	Chi Square= 0	3 = 181	9 = 225	2 = 273
0 = 18	6 = 57	Number = 971	5 = 117		4 = 181	Chi Square= 0	3 = 273
1 = 18	7 = 57	0 = 97	6 = 117	Number = 1531	5 = 181		4 = 273
2 = 18	8 = 57	1 = 97	7 = 117	0 = 153	6 = 181	Number = 2341	5 = 273
3 = 18	9 = 57	2 = 97	8 = 117	1 = 153	7 = 181	0 = 234	6 = 273
4 = 18	Chi Square= 0	3 = 97	9 = 117	2 = 153	8 = 181	1 = 234	7 = 273
5 = 18		4 = 97	Chi Square= 0	3 = 153	9 = 181	2 = 234	8 = 273
6 = 18	Number = 701	5 = 97		4 = 153	Chi Square= 0	3 = 234	9 = 273
7 = 18	0 = 70	6 = 97	Number = 1181	5 = 153		4 = 234	Chi Square= 0
8 = 18	1 = 70	7 = 97	0 = 118	6 = 153	Number = 1861	5 = 234	
9 = 18	2 = 70	8 = 97	1 = 118	7 = 153	0 = 186	6 = 234	Number = 2741
Chi Square= 0	3 = 70	9 = 97	2 = 118	8 = 153	1 = 186	7 = 234	0 = 274
	4 = 70	Chi Square= 0	3 = 118	9 = 153	2 = 186	8 = 234	1 = 274
Number = 461	5 = 70		4 = 118	Chi Square= 0	3 = 186	9 = 234	2 = 274
0 = 46	6 = 70	Number = 1021	5 = 118		4 = 186	Chi Square= 0	3 = 274
1 = 46	7 = 70	0 = 102	6 = 118	Number = 1571	5 = 186		4 = 274
2 = 46	8 = 70	1 = 102	7 = 118	0 = 157	6 = 186	Number = 2371	5 = 274
3 = 46	9 = 70	2 = 102	8 = 118	1 = 157	7 = 186	0 = 237	6 = 274
4 = 46	Chi Square= 0	3 = 102	9 = 118	2 = 157	8 = 186	1 = 237	7 = 274
5 = 46		4 = 102	Chi Square= 0	3 = 157	9 = 186	2 = 237	8 = 274
6 = 46	Number = 811	5 = 102		4 = 157	Chi Square= 0	3 = 237	9 = 274
7 = 46	0 = 81	6 = 102	Number = 1291	5 = 157		4 = 237	Chi Square= 0
8 = 46	1 = 81	7 = 102	0 = 129	6 = 157	Number = 2141	5 = 237	
9 = 46	2 = 81	8 = 102	1 = 129	7 = 157	0 = 214	6 = 237	Number = 2851
Chi Square= 0	3 = 81	9 = 102	2 = 129	8 = 157	1 = 214	7 = 237	0 = 285
	4 = 81	Chi Square= 0	3 = 129	9 = 157	2 = 214	8 = 237	1 = 285
Number = 491	5 = 81		4 = 129	Chi Square= 0	3 = 214	9 = 237	2 = 285
0 = 49	6 = 81	Number = 1051	5 = 129		4 = 214	Chi Square= 0	3 = 285
1 = 49	7 = 81	0 = 105	6 = 129	Number = 1621	5 = 214		4 = 285
2 = 49	8 = 81	1 = 105	7 = 129	0 = 162	6 = 214	Number = 2411	5 = 285
3 = 49	9 = 81	2 = 105	8 = 129	1 = 162	7 = 214	0 = 241	6 = 285

7 = 285		2 = 358	6 = 421	Chi Square= 0	1 = 558	5 = 586	9 = 622
8 = 285	Number = 3301	3 = 358	7 = 421		2 = 558	6 = 586	Chi Square= 0
9 = 285	0 = 330	4 = 358	8 = 421	Number = 4931	3 = 558	7 = 586	
Chi Square= 0	1 = 330	5 = 358	9 = 421	0 = 493	4 = 558	8 = 586	Number = 6301
	2 = 330	6 = 358	Chi Square= 0	1 = 493	5 = 558	9 = 586	0 = 630
Number = 2861	3 = 330	7 = 358		2 = 493	6 = 558	Chi Square= 0	1 = 630
0 = 286	4 = 330	8 = 358	Number = 4261	3 = 493	7 = 558		2 = 630
1 = 286	5 = 330	9 = 358	0 = 426	4 = 493	8 = 558	Number = 5981	3 = 630
2 = 286	6 = 330	Chi Square= 0	1 = 426	5 = 493	9 = 558	0 = 598	4 = 630
3 = 286	7 = 330		2 = 426	6 = 493	Chi Square= 0	1 = 598	5 = 630
4 = 286	8 = 330	Number = 3701	3 = 426	7 = 493		2 = 598	6 = 630
5 = 286	9 = 330	0 = 370	4 = 426	8 = 493	Number = 5651	3 = 598	7 = 630
6 = 286	Chi Square= 0	1 = 370	5 = 426	9 = 493	0 = 565	4 = 598	8 = 630
7 = 286		2 = 370	6 = 426	Chi Square= 0	1 = 565	5 = 598	9 = 630
8 = 286	Number = 3331	3 = 370	7 = 426		2 = 565	6 = 598	Chi Square= 0
9 = 286	0 = 333	4 = 370	8 = 426	Number = 5021	3 = 565	7 = 598	
Chi Square= 0	1 = 333	5 = 370	9 = 426	0 = 502	4 = 565	8 = 598	Number = 6571
	2 = 333	6 = 370	Chi Square= 0	1 = 502	5 = 565	9 = 598	0 = 657
Number = 2971	3 = 333	7 = 370		2 = 502	6 = 565	Chi Square= 0	1 = 657
0 = 297	4 = 333	8 = 370	Number = 4421	3 = 502	7 = 565		2 = 657
1 = 297	5 = 333	9 = 370	0 = 442	4 = 502	8 = 565	Number = 6011	3 = 657
2 = 297	6 = 333	Chi Square= 0	1 = 442	5 = 502	9 = 565	0 = 601	4 = 657
3 = 297	7 = 333		2 = 442	6 = 502	Chi Square= 0	1 = 601	5 = 657
4 = 297	8 = 333	Number = 3821	3 = 442	7 = 502		2 = 601	6 = 657
5 = 297	9 = 333	0 = 382	4 = 442	8 = 502	Number = 5701	3 = 601	7 = 657
6 = 297	Chi Square= 0	1 = 382	5 = 442	9 = 502	0 = 570	4 = 601	8 = 657
7 = 297		2 = 382	6 = 442	Chi Square= 0	1 = 570	5 = 601	9 = 657
8 = 297	Number = 3371	3 = 382	7 = 442		2 = 570	6 = 601	Chi Square= 0
9 = 297	0 = 337	4 = 382	8 = 442	Number = 5381	3 = 570	7 = 601	
Chi Square= 0	1 = 337	5 = 382	9 = 442	0 = 538	4 = 570	8 = 601	Number = 6661
	2 = 337	6 = 382	Chi Square= 0	1 = 538	5 = 570	9 = 601	0 = 666
Number = 3011	3 = 337	7 = 382		2 = 538	6 = 570	Chi Square= 0	1 = 666
0 = 301	4 = 337	8 = 382	Number = 4451	3 = 538	7 = 570		2 = 666
1 = 301	5 = 337	9 = 382	0 = 445	4 = 538	8 = 570	Number = 6131	3 = 666
2 = 301	6 = 337	Chi Square= 0	1 = 445	5 = 538	9 = 570	0 = 613	4 = 666
3 = 301	7 = 337		2 = 445	6 = 538	Chi Square= 0	1 = 613	5 = 666
4 = 301	8 = 337	Number = 4051	3 = 445	7 = 538		2 = 613	6 = 666
5 = 301	9 = 337	0 = 405	4 = 445	8 = 538	Number = 5741	3 = 613	7 = 666
6 = 301	Chi Square= 0	1 = 405	5 = 445	9 = 538	0 = 574	4 = 613	8 = 666
7 = 301		2 = 405	6 = 445	Chi Square= 0	1 = 574	5 = 613	9 = 666
8 = 301	Number = 3461	3 = 405	7 = 445		2 = 574	6 = 613	Chi Square= 0
9 = 301	0 = 346	4 = 405	8 = 445	Number = 5501	3 = 574	7 = 613	
Chi Square= 0	1 = 346	5 = 405	9 = 445	0 = 550	4 = 574	8 = 613	Number = 6691
	2 = 346	6 = 405	Chi Square= 0	1 = 550	5 = 574	9 = 613	0 = 669
Number = 3221	3 = 346	7 = 405		2 = 550	6 = 574	Chi Square= 0	1 = 669
0 = 322	4 = 346	8 = 405	Number = 4651	3 = 550	7 = 574		2 = 669
1 = 322	5 = 346	9 = 405	0 = 465	4 = 550	8 = 574	Number = 6211	3 = 669
2 = 322	6 = 346	Chi Square= 0	1 = 465	5 = 550	9 = 574	0 = 621	4 = 669
3 = 322	7 = 346		2 = 465	6 = 550	Chi Square= 0	1 = 621	5 = 669
4 = 322	8 = 346	Number = 4091	3 = 465	7 = 550		2 = 621	6 = 669
5 = 322	9 = 346	0 = 409	4 = 465	8 = 550	Number = 5821	3 = 621	7 = 669
6 = 322	Chi Square= 0	1 = 409	5 = 465	9 = 550	0 = 582	4 = 621	8 = 669
7 = 322		2 = 409	6 = 465	Chi Square= 0	1 = 582	5 = 621	9 = 669
8 = 322	Number = 3571	3 = 409	7 = 465		2 = 582	6 = 621	Chi Square= 0
9 = 322	0 = 357	4 = 409	8 = 465	Number = 5531	3 = 582	7 = 621	
Chi Square= 0	1 = 357	5 = 409	9 = 465	0 = 553	4 = 582	8 = 621	Number = 6701
	2 = 357	6 = 409	Chi Square= 0	1 = 553	5 = 582	9 = 621	0 = 670
Number = 3251	3 = 357	7 = 409		2 = 553	6 = 582	Chi Square= 0	1 = 670
0 = 325	4 = 357	8 = 409	Number = 4691	3 = 553	7 = 582		2 = 670
1 = 325	5 = 357	9 = 409	0 = 469	4 = 553	8 = 582	Number = 6221	3 = 670
2 = 325	6 = 357	Chi Square= 0	1 = 469	5 = 553	9 = 582	0 = 622	4 = 670
3 = 325	7 = 357		2 = 469	6 = 553	Chi Square= 0	1 = 622	5 = 670
4 = 325	8 = 357	Number = 4211	3 = 469	7 = 553		2 = 622	6 = 670
5 = 325	9 = 357	0 = 421	4 = 469	8 = 553	Number = 5861	3 = 622	7 = 670
6 = 325	Chi Square= 0	1 = 421	5 = 469	9 = 553	0 = 586	4 = 622	8 = 670
7 = 325		2 = 421	6 = 469	Chi Square= 0	1 = 586	5 = 622	9 = 670
8 = 325	Number = 3581	3 = 421	7 = 469		2 = 586	6 = 622	Chi Square= 0
9 = 325	0 = 358	4 = 421	8 = 469	Number = 5581	3 = 586	7 = 622	
Chi Square= 0	1 = 358	5 = 421	9 = 469	0 = 558	4 = 586	8 = 622	Number = 6971

0 = 697	4 = 790	8 = 874	Number = 9341	3 = 978	6 = 12 + 1	5 = 31	4 = 74
1 = 697	5 = 790	9 = 874	0 = 934	4 = 978	7 = 11	6 = 32 + 1	5 = 74
2 = 697	6 = 790	Chi Square= 0	1 = 934	5 = 978	8 = 11	7 = 31	6 = 75 + 1
3 = 697	7 = 790		2 = 934	6 = 978	9 = 11	8 = 31	7 = 74
4 = 697	8 = 790	Number = 8821	3 = 934	7 = 978	Chi Square=	9 = 31	8 = 74
5 = 697	9 = 790	0 = 882	4 = 934	8 = 978	.1428571	Chi Square=	9 = 74
6 = 697	Chi Square= 0	1 = 882	5 = 934	9 = 978		5.128205E-02	Chi Square=
7 = 697		2 = 882	6 = 934	Chi Square= 0	Number = 193		2.156334E-02
8 = 697	Number = 8171	3 = 882	7 = 934		0 = 19	Number = 383	
9 = 697	0 = 817	4 = 882	8 = 934	Number = 9811	1 = 19	0 = 38	Number = 823
Chi Square= 0	1 = 817	5 = 882	9 = 934	0 = 981	2 = 19	1 = 38	0 = 82
	2 = 817	6 = 882	Chi Square= 0	1 = 981	3 = 20 + 1	2 = 38	1 = 82
Number = 7411	3 = 817	7 = 882		2 = 981	4 = 19	3 = 39 + 1	2 = 82
0 = 741	4 = 817	8 = 882	Number = 9371	3 = 981	5 = 19	4 = 38	3 = 83 + 1
1 = 741	5 = 817	9 = 882	0 = 937	4 = 981	6 = 20 + 1	5 = 38	4 = 82
2 = 741	6 = 817	Chi Square= 0	1 = 937	5 = 981	7 = 19	6 = 39 + 1	5 = 82
3 = 741	7 = 817		2 = 937	6 = 981	8 = 19	7 = 38	6 = 83 + 1
4 = 741	8 = 817	Number = 8861	3 = 937	7 = 981	9 = 19	8 = 38	7 = 82
5 = 741	9 = 817	0 = 886	4 = 937	8 = 981	Chi Square=	9 = 38	8 = 82
6 = 741	Chi Square= 0	1 = 886	5 = 937	9 = 981	8.333333E-02	Chi Square=	9 = 82
7 = 741		2 = 886	6 = 937	Chi Square= 0		4.188482E-02	Chi Square=
8 = 741	Number = 8291	3 = 886	7 = 937		Number = 223		1.946472E-02
9 = 741	0 = 829	4 = 886	8 = 937	Number = 9851	0 = 22	Number = 433	
Chi Square= 0	1 = 829	5 = 886	9 = 937	0 = 985	1 = 22	0 = 43	Number = 863
	2 = 829	6 = 886	Chi Square= 0	1 = 985	2 = 22	1 = 43	0 = 86
Number = 7451	3 = 829	7 = 886		2 = 985	3 = 23 + 1	2 = 43	1 = 86
0 = 745	4 = 829	8 = 886	Number = 9421	3 = 985	4 = 22	3 = 44 + 1	2 = 86
1 = 745	5 = 829	9 = 886	0 = 942	4 = 985	5 = 22	4 = 43	3 = 87 + 1
2 = 745	6 = 829	Chi Square= 0	1 = 942	5 = 985	6 = 23 + 1	5 = 43	4 = 86
3 = 745	7 = 829		2 = 942	6 = 985	7 = 22	6 = 44 + 1	5 = 86
4 = 745	8 = 829	Number = 8971	3 = 942	7 = 985	8 = 22	7 = 43	6 = 87 + 1
5 = 745	9 = 829	0 = 897	4 = 942	8 = 985	9 = 22	8 = 43	7 = 86
6 = 745	Chi Square= 0	1 = 897	5 = 942	9 = 985	Chi Square=	9 = 43	8 = 86
7 = 745		2 = 897	6 = 942	Chi Square= 0	7.207207E-02	Chi Square=	9 = 86
8 = 745	Number = 8501	3 = 897	7 = 942			3.703704E-02	Chi Square=
9 = 745	0 = 850	4 = 897	8 = 942	Number = 9931	Number = 233		1.856149E-02
Chi Square= 0	1 = 850	5 = 897	9 = 942	0 = 993	0 = 23	Number = 503	
	2 = 850	6 = 897	Chi Square= 0	1 = 993	1 = 23	0 = 50	Number = 953
Number = 7541	3 = 850	7 = 897		2 = 993	2 = 23	1 = 50	0 = 95
0 = 754	4 = 850	8 = 897	Number = 9461	3 = 993	3 = 24 + 1	2 = 50	1 = 95
1 = 754	5 = 850	9 = 897	0 = 946	4 = 993	4 = 23	3 = 51 + 1	2 = 95
2 = 754	6 = 850	Chi Square= 0	1 = 946	5 = 993	5 = 23	4 = 50	3 = 96 + 1
3 = 754	7 = 850		2 = 946	6 = 993	6 = 24 + 1	5 = 50	4 = 95
4 = 754	8 = 850	Number = 9011	3 = 946	7 = 993	7 = 23	6 = 51 + 1	5 = 95
5 = 754	9 = 850	0 = 901	4 = 946	8 = 993	8 = 23	7 = 50	6 = 96 + 1
6 = 754	Chi Square= 0	1 = 901	5 = 946	9 = 993	9 = 23	8 = 50	7 = 95
7 = 754		2 = 901	6 = 946	Chi Square= 0	Chi Square=	9 = 50	8 = 95
8 = 754	Number = 8731	3 = 901	7 = 946		6.896552E-02	Chi Square=	9 = 95
9 = 754	0 = 873	4 = 901	8 = 946	Number = 23		3.187251E-02	Chi Square=
Chi Square= 0	1 = 873	5 = 901	9 = 946	0 = 2	Number = 263		1.680672E-02
	2 = 873	6 = 901	Chi Square= 0	1 = 2	0 = 26	Number = 593	
Number = 7691	3 = 873	7 = 901		2 = 2	1 = 26	0 = 59	Number = 983
0 = 769	4 = 873	8 = 901	Number = 9491	3 = 3 + 1	2 = 26	1 = 59	0 = 98
1 = 769	5 = 873	9 = 901	0 = 949	4 = 2	3 = 27 + 1	2 = 59	1 = 98
2 = 769	6 = 873	Chi Square= 0	1 = 949	5 = 2	4 = 26	3 = 60 + 1	2 = 98
3 = 769	7 = 873		2 = 949	6 = 3 + 1	5 = 26	4 = 59	3 = 99 + 1
4 = 769	8 = 873	Number = 9221	3 = 949	7 = 2	6 = 27 + 1	5 = 59	4 = 98
5 = 769	9 = 873	0 = 922	4 = 949	8 = 2	7 = 26	6 = 60 + 1	5 = 98
6 = 769	Chi Square= 0	1 = 922	5 = 949	9 = 2	8 = 26	7 = 59	6 = 99 + 1
7 = 769		2 = 922	6 = 949	Chi Square=	9 = 26	8 = 59	7 = 98
8 = 769	Number = 8741	3 = 922	7 = 949	.7272726	Chi Square=	9 = 59	8 = 98
9 = 769	0 = 874	4 = 922	8 = 949		.0610687	Chi Square=	9 = 98
Chi Square= 0	1 = 874	5 = 922	9 = 949	Number = 113		2.702703E-02	Chi Square=
	2 = 874	6 = 922	Chi Square= 0	0 = 11	Number = 313		1.629328E-02
Number = 7901	3 = 874	7 = 922		1 = 11	0 = 31	Number = 743	
0 = 790	4 = 874	8 = 922	Number = 9781	2 = 11	1 = 31	0 = 74	Number = 1033
1 = 790	5 = 874	9 = 922	0 = 978	3 = 12 + 1	2 = 31	1 = 74	0 = 103
2 = 790	6 = 874	Chi Square= 0	1 = 978	4 = 11	3 = 32 + 1	2 = 74	1 = 103
3 = 790	7 = 874		2 = 978	5 = 11	4 = 31	3 = 75 + 1	2 = 103

3 = 104 + 1	2 = 122	1 = 158	0 = 191	Number = 2273		Chi Square=	9 = 334
4 = 103	3 = 123 + 1	2 = 158	1 = 191	0 = 227	Number = 2593	5.813953E-03	Chi Square=
5 = 103	4 = 122	3 = 159 + 1	2 = 191	1 = 227	0 = 259		4.787552E-03
6 = 104 + 1	5 = 122	4 = 158	3 = 192 + 1	2 = 227	1 = 259	Number = 2833	
7 = 103	6 = 123 + 1	5 = 158	4 = 191	3 = 228 + 1	2 = 259	0 = 283	Number = 3433
8 = 103	7 = 122	6 = 159 + 1	5 = 191	4 = 227	3 = 260 + 1	1 = 283	0 = 343
9 = 103	8 = 122	7 = 158	6 = 192 + 1	5 = 227	4 = 259	2 = 283	1 = 343
Chi Square=	9 = 122	8 = 158	7 = 191	6 = 228 + 1	5 = 259	3 = 284 + 1	2 = 343
1.550388E-02	Chi Square=	9 = 158	8 = 191	7 = 227	6 = 260 + 1	4 = 283	3 = 344 + 1
	1.309329E-02	Chi Square=	9 = 191	8 = 227	7 = 259	5 = 283	4 = 343
Number = 1063		1.011378E-02	Chi Square=	9 = 227	8 = 259	6 = 284 + 1	5 = 343
0 = 106	Number = 1303		8.368202E-03	Chi Square=	9 = 259	7 = 283	6 = 344 + 1
1 = 106	0 = 130	Number = 1663		7.042254E-03	Chi Square=	8 = 283	7 = 343
2 = 106	1 = 130	0 = 166	Number = 2063		6.172839E-03	9 = 283	8 = 343
3 = 107 + 1	2 = 130	1 = 166	0 = 206	Number = 2383		Chi Square=	9 = 343
4 = 106	3 = 131 + 1	2 = 166	1 = 206	0 = 238	Number = 2633	5.649717E-03	Chi Square=
5 = 106	4 = 130	3 = 167 + 1	2 = 206	1 = 238	0 = 263		4.662004E-03
6 = 107 + 1	5 = 130	4 = 166	3 = 207 + 1	2 = 238	1 = 263	Number = 2903	
7 = 106	6 = 131 + 1	5 = 166	4 = 206	3 = 239 + 1	2 = 263	0 = 290	Number = 3463
8 = 106	7 = 130	6 = 167 + 1	5 = 206	4 = 238	3 = 264 + 1	1 = 290	0 = 346
9 = 106	8 = 130	7 = 166	6 = 207 + 1	5 = 238	4 = 263	2 = 290	1 = 346
Chi Square=	9 = 130	8 = 166	7 = 206	6 = 239 + 1	5 = 263	3 = 291 + 1	2 = 346
1.506591E-02	Chi Square=	9 = 166	8 = 206	7 = 238	6 = 264 + 1	4 = 290	3 = 347 + 1
	1.228879E-02	Chi Square=	9 = 206	8 = 238	7 = 263	5 = 290	4 = 346
Number = 1103		9.626956E-03	Chi Square=	9 = 238	8 = 263	6 = 291 + 1	5 = 346
0 = 110	Number = 1433		7.759457E-03	Chi Square=	9 = 263	7 = 290	6 = 347 + 1
1 = 110	0 = 143	Number = 1783		6.717045E-03	Chi Square=	8 = 290	7 = 346
2 = 110	1 = 143	0 = 178	Number = 2113		6.079026E-03	9 = 290	8 = 346
3 = 111 + 1	2 = 143	1 = 178	0 = 211	Number = 2423		Chi Square=	9 = 346
4 = 110	3 = 144 + 1	2 = 178	1 = 211	0 = 242	Number = 2663	5.513438E-03	Chi Square=
5 = 110	4 = 143	3 = 179 + 1	2 = 211	1 = 242	0 = 266		4.621605E-03
6 = 111 + 1	5 = 143	4 = 178	3 = 212 + 1	2 = 242	1 = 266	Number = 3023	
7 = 110	6 = 144 + 1	5 = 178	4 = 211	3 = 243 + 1	2 = 266	0 = 302	Number = 3593
8 = 110	7 = 143	6 = 179 + 1	5 = 211	4 = 242	3 = 267 + 1	1 = 302	0 = 359
9 = 110	8 = 143	7 = 178	6 = 212 + 1	5 = 242	4 = 266	2 = 302	1 = 359
Chi Square=	9 = 143	8 = 178	7 = 211	6 = 243 + 1	5 = 266	3 = 303 + 1	2 = 359
1.451906E-02	Chi Square=	9 = 178	8 = 211	7 = 242	6 = 267 + 1	4 = 302	3 = 360 + 1
	1.117318E-02	Chi Square=	9 = 211	8 = 242	7 = 266	5 = 302	4 = 359
Number = 1153		8.978676E-03	Chi Square=	9 = 242	8 = 266	6 = 303 + 1	5 = 359
0 = 115	Number = 1543		7.575758E-03	Chi Square=	9 = 266	7 = 302	6 = 360 + 1
1 = 115	0 = 154	Number = 1823		6.606111E-03	Chi Square=	8 = 302	7 = 359
2 = 115	1 = 154	0 = 182	Number = 2143		6.010518E-03	9 = 302	8 = 359
3 = 116 + 1	2 = 154	1 = 182	0 = 214	Number = 2473		Chi Square=	9 = 359
4 = 115	3 = 155 + 1	2 = 182	1 = 214	0 = 247	Number = 2713	5.294506E-03	Chi Square=
5 = 115	4 = 154	3 = 183 + 1	2 = 214	1 = 247	0 = 271		4.454343E-03
6 = 116 + 1	5 = 154	4 = 182	3 = 215 + 1	2 = 247	1 = 271	Number = 3313	
7 = 115	6 = 155 + 1	5 = 182	4 = 214	3 = 248 + 1	2 = 271	0 = 331	Number = 3623
8 = 115	7 = 154	6 = 183 + 1	5 = 214	4 = 247	3 = 272 + 1	1 = 331	0 = 362
9 = 115	8 = 154	7 = 182	6 = 215 + 1	5 = 247	4 = 271	2 = 331	1 = 362
Chi Square=	9 = 154	8 = 182	7 = 214	6 = 248 + 1	5 = 271	3 = 332 + 1	2 = 362
1.388889E-02	Chi Square=	9 = 182	8 = 214	7 = 247	6 = 272 + 1	4 = 331	3 = 363 + 1
	1.037613E-02	Chi Square=	9 = 214	8 = 247	7 = 271	5 = 331	4 = 362
Number = 1193		8.781559E-03	Chi Square=	9 = 247	8 = 271	6 = 332 + 1	5 = 362
0 = 119	Number = 1553		7.469655E-03	Chi Square=	9 = 271	7 = 331	6 = 363 + 1
1 = 119	0 = 155	Number = 1873		6.472492E-03	Chi Square=	8 = 331	7 = 362
2 = 119	1 = 155	0 = 187	Number = 2153		5.899705E-03	9 = 331	8 = 362
3 = 120 + 1	2 = 155	1 = 187	0 = 215	Number = 2543		Chi Square=	9 = 362
4 = 119	3 = 156 + 1	2 = 187	1 = 215	0 = 254	Number = 2753	4.830917E-03	Chi Square=
5 = 119	4 = 155	3 = 188 + 1	2 = 215	1 = 254	0 = 275		4.417448E-03
6 = 120 + 1	5 = 155	4 = 187	3 = 216 + 1	2 = 254	1 = 275	Number = 3343	
7 = 119	6 = 156 + 1	5 = 187	4 = 215	3 = 255 + 1	2 = 275	0 = 334	Number = 3673
8 = 119	7 = 155	6 = 188 + 1	5 = 215	4 = 254	3 = 276 + 1	1 = 334	0 = 367
9 = 119	8 = 155	7 = 187	6 = 216 + 1	5 = 254	4 = 275	2 = 334	1 = 367
Chi Square=	9 = 155	8 = 187	7 = 215	6 = 255 + 1	5 = 275	3 = 335 + 1	2 = 367
1.342282E-02	Chi Square=	9 = 187	8 = 215	7 = 254	6 = 276 + 1	4 = 334	3 = 368 + 1
	1.030928E-02	Chi Square=	9 = 215	8 = 254	7 = 275	5 = 334	4 = 367
Number = 1223		8.547009E-03	Chi Square=	9 = 254	8 = 275	6 = 335 + 1	5 = 367
0 = 122	Number = 1583		7.434945E-03	Chi Square=	9 = 275	7 = 334	6 = 368 + 1
1 = 122	0 = 158	Number = 1913		6.294257E-03		8 = 334	7 = 367

8 = 367	7 = 415	6 = 471 + 1	5 = 523	4 = 562	3 = 612 + 1	2 = 647	1 = 682
9 = 367	8 = 415	7 = 470	6 = 524 + 1	5 = 562	4 = 611	3 = 648 + 1	2 = 682
Chi Square= 4.357298E-03	9 = 415	8 = 470	7 = 523	6 = 563 + 1	5 = 611	4 = 647	3 = 683 + 1
Number = 3833	Chi Square= 3.853564E-03	9 = 470	8 = 523	7 = 562	6 = 612 + 1	5 = 647	4 = 682
0 = 383	Chi Square= 3.402807E-03	Chi Square= 3.402807E-03	9 = 523	8 = 562	7 = 611	6 = 648 + 1	5 = 682
1 = 383	Number = 4423	Chi Square= 3.058104E-03	Chi Square= 3.058104E-03	9 = 562	8 = 611	7 = 647	6 = 683 + 1
2 = 383	0 = 442	Chi Square= 2.845962E-03	Chi Square= 2.845962E-03	Chi Square= 2.617801E-03	9 = 611	8 = 647	7 = 682
3 = 384 + 1	0 = 442	Number = 4783	Number = 5273	Chi Square= 2.617801E-03	Chi Square= 2.472188E-03	9 = 647	8 = 682
4 = 383	1 = 442	0 = 478	0 = 527	Number = 5743	Chi Square= 2.472188E-03	Chi Square= 2.472188E-03	9 = 682
5 = 383	2 = 442	1 = 478	1 = 527	0 = 574	Number = 6143	Chi Square= 2.345353E-03	Chi Square= 2.345353E-03
6 = 384 + 1	3 = 443 + 1	2 = 478	2 = 527	1 = 574	0 = 614	Number = 6553	Number = 6833
7 = 383	4 = 442	3 = 479 + 1	3 = 528 + 1	2 = 574	1 = 614	0 = 655	0 = 683
8 = 383	5 = 442	4 = 478	4 = 527	3 = 575 + 1	2 = 614	1 = 655	1 = 683
9 = 383	6 = 443 + 1	5 = 478	5 = 527	4 = 574	3 = 615 + 1	2 = 655	2 = 683
Chi Square= 4.175365E-03	7 = 442	6 = 479 + 1	6 = 528 + 1	5 = 574	4 = 614	3 = 656 + 1	3 = 684 + 1
Number = 3863	8 = 442	7 = 478	7 = 527	6 = 575 + 1	5 = 614	4 = 655	4 = 683
0 = 386	9 = 442	8 = 478	8 = 527	7 = 574	6 = 615 + 1	5 = 655	5 = 683
1 = 386	Chi Square= 3.618272E-03	9 = 478	9 = 527	8 = 574	7 = 614	6 = 656 + 1	6 = 684 + 1
2 = 386	Chi Square= 3.345888E-03	Chi Square= 3.345888E-03	Chi Square= 3.034901E-03	9 = 574	8 = 614	7 = 655	7 = 683
3 = 387 + 1	Number = 4463	Chi Square= 3.034901E-03	Chi Square= 2.786485E-03	Chi Square= 2.786485E-03	9 = 614	8 = 655	8 = 683
4 = 386	0 = 446	Number = 4793	Number = 5303	Number = 5783	Chi Square= 2.605014E-03	9 = 655	9 = 683
5 = 386	1 = 446	0 = 479	0 = 530	0 = 578	Chi Square= 2.442002E-03	Chi Square= 2.442002E-03	Chi Square= 2.34192E-03
6 = 387 + 1	2 = 446	1 = 479	1 = 530	1 = 578	Number = 6263	Number = 6673	Number = 6863
7 = 386	3 = 447 + 1	2 = 479	2 = 530	2 = 578	0 = 626	0 = 667	0 = 686
8 = 386	4 = 446	3 = 480 + 1	3 = 531 + 1	3 = 579 + 1	1 = 626	1 = 667	1 = 686
9 = 386	5 = 446	4 = 479	4 = 530	4 = 578	2 = 626	2 = 667	2 = 686
Chi Square= 4.142931E-03	6 = 447 + 1	5 = 479	5 = 530	5 = 578	3 = 627 + 1	3 = 668 + 1	3 = 687 + 1
Number = 3943	7 = 446	6 = 480 + 1	6 = 531 + 1	6 = 579 + 1	4 = 626	4 = 667	4 = 686
0 = 394	8 = 446	7 = 479	7 = 530	7 = 578	5 = 626	5 = 667	5 = 686
1 = 394	9 = 446	8 = 479	8 = 530	8 = 578	6 = 627 + 1	6 = 668 + 1	6 = 687 + 1
2 = 394	Chi Square= 3.585836E-03	9 = 479	9 = 530	9 = 578	7 = 626	7 = 667	7 = 686
3 = 395 + 1	Chi Square= 3.338898E-03	Chi Square= 3.338898E-03	Chi Square= 3.017729E-03	Chi Square= 2.767208E-03	8 = 626	8 = 667	8 = 686
4 = 394	Number = 4583	Chi Square= 3.017729E-03	Number = 5393	Number = 5903	9 = 626	9 = 667	9 = 686
5 = 394	0 = 458	Number = 4943	0 = 539	0 = 590	Chi Square= 2.555094E-03	Chi Square= 2.398081E-03	Chi Square= 2.331682E-03
6 = 395 + 1	1 = 458	0 = 494	1 = 539	1 = 590	Number = 6343	Number = 6703	Number = 6983
7 = 394	2 = 458	1 = 494	2 = 539	2 = 590	0 = 634	0 = 670	0 = 698
8 = 394	3 = 459 + 1	2 = 494	3 = 540 + 1	3 = 591 + 1	1 = 634	1 = 670	1 = 698
9 = 394	4 = 458	3 = 495 + 1	4 = 539	4 = 590	2 = 634	2 = 670	2 = 698
Chi Square= 4.058853E-03	5 = 458	4 = 494	5 = 539	5 = 590	3 = 635 + 1	3 = 671 + 1	3 = 699 + 1
Number = 4073	6 = 459 + 1	5 = 494	6 = 540 + 1	6 = 591 + 1	4 = 634	4 = 670	4 = 698
0 = 407	7 = 458	6 = 495 + 1	7 = 539	7 = 590	5 = 634	5 = 670	5 = 698
1 = 407	8 = 458	7 = 494	8 = 539	8 = 590	6 = 635 + 1	6 = 671 + 1	6 = 699 + 1
2 = 407	9 = 458	8 = 494	9 = 539	9 = 590	7 = 634	7 = 670	7 = 698
3 = 408 + 1	Chi Square= 3.491925E-03	9 = 494	Chi Square= 2.967359E-03	Chi Square= 2.710945E-03	8 = 634	8 = 670	8 = 698
4 = 407	Number = 4673	Chi Square= 3.237555E-03	Number = 5153	Number = 6073	9 = 634	9 = 670	9 = 698
5 = 407	0 = 467	Chi Square= 2.967359E-03	0 = 515	0 = 607	Chi Square= 2.522863E-03	Chi Square= 2.387347E-03	Chi Square= 2.291607E-03
6 = 408 + 1	1 = 467	Number = 5503	1 = 515	1 = 607	Number = 6353	Number = 6793	Number = 7103
7 = 407	2 = 467	0 = 550	2 = 515	2 = 607	0 = 635	0 = 679	0 = 710
8 = 407	3 = 468 + 1	1 = 550	3 = 516 + 1	3 = 608 + 1	1 = 635	1 = 679	1 = 710
9 = 407	4 = 467	2 = 550	4 = 515	4 = 607	2 = 635	2 = 679	2 = 710
Chi Square= 3.929273E-03	5 = 467	3 = 551 + 1	5 = 515	5 = 607	3 = 636 + 1	3 = 680 + 1	3 = 711 + 1
Number = 4153	6 = 468 + 1	4 = 550	6 = 515	6 = 608 + 1	4 = 635	4 = 679	4 = 710
0 = 415	7 = 467	5 = 550	7 = 515	7 = 607	5 = 635	5 = 679	5 = 710
1 = 415	8 = 467	6 = 551 + 1	8 = 515	8 = 607	6 = 636 + 1	6 = 680 + 1	6 = 711 + 1
2 = 415	9 = 467	7 = 515	9 = 515	9 = 607	7 = 635	7 = 679	7 = 710
3 = 416 + 1	Chi Square= 3.424657E-03	8 = 515	Chi Square= 3.10559E-03	Chi Square= 2.908033E-03	8 = 635	8 = 679	8 = 710
4 = 415	Number = 4703	Chi Square= 2.908033E-03	Number = 5233	Number = 5623	9 = 635	9 = 679	9 = 710
5 = 415	0 = 470	Number = 5623	0 = 523	0 = 562	Chi Square= 2.518892E-03	Chi Square= 2.355712E-03	Chi Square= 2.252886E-03
6 = 416 + 1	1 = 470	0 = 562	1 = 523	1 = 562	Number = 6473	Number = 6823	Number = 7193
7 = 415	2 = 470	1 = 562	2 = 523	2 = 562	0 = 647	0 = 682	
8 = 415	3 = 471 + 1	2 = 562	3 = 524 + 1	3 = 563 + 1	1 = 647		
9 = 415	4 = 470	3 = 563 + 1	4 = 523	4 = 562	2 = 647		
6 = 416 + 1	5 = 470	4 = 523	5 = 523	5 = 562	3 = 647		

0 = 719	Number = 7703		Chi Square=	9 = 871	8 = 934	7 = 1 + 1	9 = 25
1 = 719	0 = 770	Number = 8233	1.899786E-03	Chi Square=	9 = 934	8 = 1 + 1	Chi Square=
2 = 719	1 = 770	0 = 823		1.836547E-03	Chi Square=	9 = 0	.09375
3 = 720 + 1	2 = 770	1 = 823	Number = 8513		1.712695E-03	Chi Square= 4	
4 = 719	3 = 771 + 1	2 = 823	0 = 851	Number = 8753			Number = 337
5 = 719	4 = 770	3 = 824 + 1	1 = 851	0 = 875	Number = 9473	Number = 17	0 = 33
6 = 720 + 1	5 = 770	4 = 823	2 = 851	1 = 875	0 = 947	0 = 1	1 = 34 + 1
7 = 719	6 = 771 + 1	5 = 823	3 = 852 + 1	2 = 875	1 = 947	1 = 2 + 1	2 = 34 + 1
8 = 719	7 = 770	6 = 824 + 1	4 = 851	3 = 876 + 1	2 = 947	2 = 2 + 1	3 = 33
9 = 719	8 = 770	7 = 823	5 = 851	4 = 875	3 = 948 + 1	3 = 1	4 = 34 + 1
Chi Square=	9 = 770	8 = 823	6 = 852 + 1	5 = 875	4 = 947	4 = 2 + 1	5 = 34 + 1
2.224694E-03	Chi Square=	9 = 823	7 = 851	6 = 876 + 1	5 = 947	5 = 2 + 1	6 = 33
	2.077382E-03	Chi Square=	8 = 851	7 = 875	6 = 948 + 1	6 = 1	7 = 34 + 1
Number = 7393		1.943634E-03	9 = 851	8 = 875	7 = 947	7 = 2 + 1	8 = 34 + 1
0 = 739	Number = 7753		Chi Square=	9 = 875	8 = 947	8 = 2 + 1	9 = 33
1 = 739	0 = 775	Number = 8263	1.879699E-03	Chi Square=	9 = 947	9 = 1	Chi Square=
2 = 739	1 = 775	0 = 826		1.828153E-03	Chi Square=	Chi Square= 1.5	7.142858E-02
3 = 740 + 1	2 = 775	1 = 826	Number = 8543		1.689189E-03		
4 = 739	3 = 776 + 1	2 = 826	0 = 854	Number = 8783		Number = 47	Number = 367
5 = 739	4 = 775	3 = 827 + 1	1 = 854	0 = 878	Number = 9623	0 = 4	0 = 36
6 = 740 + 1	5 = 775	4 = 826	2 = 854	1 = 878	0 = 962	1 = 5 + 1	1 = 37 + 1
7 = 739	6 = 776 + 1	5 = 826	3 = 855 + 1	2 = 878	1 = 962	2 = 5 + 1	2 = 37 + 1
8 = 739	7 = 775	6 = 827 + 1	4 = 854	3 = 879 + 1	2 = 962	3 = 4	3 = 36
9 = 739	8 = 775	7 = 826	5 = 854	4 = 878	3 = 963 + 1	4 = 5 + 1	4 = 37 + 1
Chi Square=	9 = 775	8 = 826	6 = 855 + 1	5 = 878	4 = 962	5 = 5 + 1	5 = 37 + 1
2.164502E-03	Chi Square=	9 = 826	7 = 854	6 = 879 + 1	5 = 962	6 = 4	6 = 36
	2.063983E-03	Chi Square=	8 = 854	7 = 878	6 = 963 + 1	7 = 5 + 1	7 = 37 + 1
Number = 7433		1.936577E-03	9 = 854	8 = 878	7 = 962	8 = 5 + 1	8 = 37 + 1
0 = 743	Number = 7793		Chi Square=	9 = 878	8 = 962	9 = 4	9 = 36
1 = 743	0 = 779	Number = 8273	1.873097E-03	Chi Square=	9 = 962	Chi Square=	Chi Square=
2 = 743	1 = 779	0 = 827		1.821908E-03	Chi Square=	.5217392	6.557378E-02
3 = 744 + 1	2 = 779	1 = 827	Number = 8623		1.662856E-03		
4 = 743	3 = 780 + 1	2 = 827	0 = 862	Number = 8863		Number = 97	Number = 487
5 = 743	4 = 779	3 = 828 + 1	1 = 862	0 = 886	Number = 9743	0 = 9	0 = 48
6 = 744 + 1	5 = 779	4 = 827	2 = 862	1 = 886	0 = 974	1 = 10 + 1	1 = 49 + 1
7 = 743	6 = 780 + 1	5 = 827	3 = 863 + 1	2 = 886	1 = 974	2 = 10 + 1	2 = 49 + 1
8 = 743	7 = 779	6 = 828 + 1	4 = 862	3 = 887 + 1	2 = 974	3 = 9	3 = 48
9 = 743	8 = 779	7 = 827	5 = 862	4 = 886	3 = 975 + 1	4 = 10 + 1	4 = 49 + 1
Chi Square=	9 = 779	8 = 827	6 = 863 + 1	5 = 886	4 = 974	5 = 10 + 1	5 = 49 + 1
2.152852E-03	Chi Square=	9 = 827	7 = 862	6 = 887 + 1	5 = 974	6 = 9	6 = 48
	2.053388E-03	Chi Square=	8 = 862	7 = 886	6 = 975 + 1	7 = 10 + 1	7 = 49 + 1
Number = 7583		1.934236E-03	9 = 862	8 = 886	7 = 974	8 = 10 + 1	8 = 49 + 1
0 = 758	Number = 7823		Chi Square=	9 = 886	8 = 974	9 = 9	9 = 48
1 = 758	0 = 782	Number = 8353	1.855718E-03	Chi Square=	9 = 974	Chi Square= .25	Chi Square=
2 = 758	1 = 782	0 = 835		1.805461E-03	Chi Square=		4.938272E-02
3 = 759 + 1	2 = 782	1 = 835	Number = 8663		1.642373E-03	Number = 167	
4 = 758	3 = 783 + 1	2 = 835	0 = 866	Number = 9103		0 = 16	Number = 577
5 = 758	4 = 782	3 = 836 + 1	1 = 866	0 = 910	Number = 9833	1 = 17 + 1	0 = 57
6 = 759 + 1	5 = 782	4 = 835	2 = 866	1 = 910	0 = 983	2 = 17 + 1	1 = 58 + 1
7 = 758	6 = 783 + 1	5 = 835	3 = 867 + 1	2 = 910	1 = 983	3 = 16	2 = 58 + 1
8 = 758	7 = 782	6 = 836 + 1	4 = 866	3 = 911 + 1	2 = 983	4 = 17 + 1	3 = 57
9 = 758	8 = 782	7 = 835	5 = 866	4 = 910	3 = 984 + 1	5 = 17 + 1	4 = 58 + 1
Chi Square=	9 = 782	8 = 835	6 = 867 + 1	5 = 910	4 = 983	6 = 16	5 = 58 + 1
2.110261E-03	Chi Square=	9 = 835	7 = 866	6 = 911 + 1	5 = 983	7 = 17 + 1	6 = 57
	2.045512E-03	Chi Square=	8 = 866	7 = 910	6 = 984 + 1	8 = 17 + 1	7 = 58 + 1
Number = 7673		1.915709E-03	9 = 866	8 = 910	7 = 983	9 = 16	8 = 58 + 1
0 = 767	Number = 7873		Chi Square=	9 = 910	8 = 983	Chi Square=	9 = 57
1 = 767	0 = 787	Number = 8423	1.847148E-03	Chi Square=	9 = 983	.1445783	Chi Square=
2 = 767	1 = 787	0 = 842		1.757855E-03	Chi Square=		4.166668E-02
3 = 768 + 1	2 = 787	1 = 842	Number = 8713		1.627339E-03	Number = 257	
4 = 767	3 = 788 + 1	2 = 842	0 = 871	Number = 9343		0 = 25	Number = 647
5 = 767	4 = 787	3 = 843 + 1	1 = 871	0 = 934	Number = 7	1 = 26 + 1	0 = 64
6 = 768 + 1	5 = 787	4 = 842	2 = 871	1 = 934	0 = 0	2 = 26 + 1	1 = 65 + 1
7 = 767	6 = 788 + 1	5 = 842	3 = 872 + 1	2 = 934	1 = 1 + 1	3 = 25	2 = 65 + 1
8 = 767	7 = 787	6 = 843 + 1	4 = 871	3 = 935 + 1	2 = 1 + 1	4 = 26 + 1	3 = 64
9 = 767	8 = 787	7 = 842	5 = 871	4 = 934	3 = 0	5 = 26 + 1	4 = 65 + 1
Chi Square=	9 = 787	8 = 842	6 = 872 + 1	5 = 934	4 = 1 + 1	6 = 25	5 = 65 + 1
2.085506E-03	Chi Square=	9 = 842	7 = 871	6 = 935 + 1	5 = 1 + 1	7 = 26 + 1	6 = 64
	2.03252E-03		8 = 871	7 = 934	6 = 0	8 = 26 + 1	7 = 65 + 1

8 = 65 + 1	7 = 98 + 1	6 = 132	5 = 161 + 1	4 = 214 + 1	3 = 261	2 = 289 + 1	1 = 326 + 1
9 = 64	8 = 98 + 1	7 = 133 + 1	6 = 160	5 = 214 + 1	4 = 262 + 1	3 = 288	2 = 326 + 1
Chi Square= 3.715171E-02	9 = 97	8 = 133 + 1	7 = 161 + 1	6 = 213	5 = 262 + 1	4 = 289 + 1	3 = 325
Number = 727	Chi Square= 2.459017E-02	9 = 132	8 = 161 + 1	7 = 214 + 1	6 = 261	5 = 289 + 1	4 = 326 + 1
0 = 72	Number = 1087	Chi Square= 1.809955E-02	9 = 160	8 = 214 + 1	7 = 262 + 1	6 = 288	5 = 326 + 1
1 = 73 + 1	0 = 108	Number = 1367	Chi Square= 1.494396E-02	9 = 213	8 = 262 + 1	7 = 289 + 1	6 = 325
2 = 73 + 1	0 = 109 + 1	0 = 136	Number = 1697	Chi Square= 1.123595E-02	9 = 261	8 = 289 + 1	7 = 326 + 1
3 = 72	1 = 109 + 1	1 = 137 + 1	0 = 169	Number = 2207	Chi Square= 9.174312E-03	9 = 288	8 = 326 + 1
4 = 73 + 1	2 = 109 + 1	2 = 137 + 1	1 = 170 + 1	0 = 220	Number = 2657	Chi Square= 8.316007E-03	9 = 325
5 = 73 + 1	3 = 108	3 = 136	2 = 170 + 1	1 = 221 + 1	0 = 265	Number = 2897	Chi Square= 7.371007E-03
6 = 72	4 = 109 + 1	4 = 137 + 1	3 = 169	2 = 221 + 1	1 = 266 + 1	0 = 289	Number = 3407
7 = 73 + 1	5 = 109 + 1	5 = 137 + 1	4 = 170 + 1	3 = 220	2 = 266 + 1	1 = 290 + 1	0 = 340
8 = 73 + 1	6 = 108	6 = 136	5 = 170 + 1	4 = 221 + 1	3 = 265	2 = 290 + 1	1 = 341 + 1
9 = 72	7 = 109 + 1	7 = 137 + 1	6 = 169	5 = 221 + 1	4 = 266 + 1	3 = 289	2 = 341 + 1
Chi Square= 3.305786E-02	8 = 109 + 1	8 = 137 + 1	7 = 170 + 1	6 = 220	5 = 266 + 1	4 = 290 + 1	3 = 340
Number = 857	9 = 108	9 = 136	8 = 170 + 1	7 = 221 + 1	6 = 265	5 = 290 + 1	4 = 341 + 1
0 = 85	Chi Square= 2.209945E-02	Chi Square= 1.756954E-02	9 = 169	8 = 221 + 1	7 = 266 + 1	6 = 289	5 = 341 + 1
1 = 86 + 1	Number = 1097	Number = 1447	Chi Square= 1.415094E-02	9 = 220	8 = 266 + 1	7 = 290 + 1	6 = 340
2 = 86 + 1	0 = 109	0 = 144	Number = 1777	Chi Square= 1.087942E-02	9 = 265	8 = 290 + 1	7 = 341 + 1
3 = 85	1 = 110 + 1	1 = 145 + 1	0 = 177	Number = 2297	Chi Square= 9.036144E-03	9 = 289	8 = 341 + 1
4 = 86 + 1	2 = 110 + 1	2 = 145 + 1	1 = 178 + 1	0 = 229	Number = 2687	Chi Square= 8.287292E-03	9 = 340
5 = 86 + 1	3 = 109	3 = 144	2 = 178 + 1	1 = 230 + 1	0 = 268	Number = 2927	Chi Square= 7.046388E-03
6 = 85	4 = 110 + 1	4 = 145 + 1	3 = 177	2 = 230 + 1	1 = 269 + 1	0 = 292	Number = 3527
7 = 86 + 1	5 = 110 + 1	5 = 145 + 1	4 = 178 + 1	3 = 229	2 = 269 + 1	1 = 293 + 1	0 = 352
8 = 86 + 1	6 = 109	6 = 144	5 = 178 + 1	4 = 230 + 1	3 = 268	2 = 293 + 1	1 = 353 + 1
9 = 85	7 = 110 + 1	7 = 145 + 1	6 = 177	5 = 230 + 1	4 = 269 + 1	3 = 292	2 = 353 + 1
Chi Square= 2.803739E-02	8 = 110 + 1	8 = 145 + 1	7 = 178 + 1	6 = 229	5 = 269 + 1	4 = 293 + 1	3 = 352
Number = 887	9 = 109	9 = 144	8 = 178 + 1	7 = 230 + 1	6 = 268	5 = 293 + 1	4 = 353 + 1
0 = 88	Chi Square= 2.189781E-02	Chi Square= 1.659751E-02	9 = 177	8 = 230 + 1	7 = 269 + 1	6 = 292	5 = 353 + 1
1 = 89 + 1	Number = 1217	Number = 1487	Chi Square= 1.351351E-02	9 = 229	8 = 269 + 1	7 = 293 + 1	6 = 352
2 = 89 + 1	0 = 121	0 = 148	Number = 1847	Chi Square= 1.045296E-02	9 = 268	8 = 293 + 1	7 = 353 + 1
3 = 88	1 = 122 + 1	1 = 149 + 1	0 = 184	Number = 2417	Chi Square= 8.935219E-03	9 = 292	8 = 353 + 1
4 = 89 + 1	2 = 122 + 1	2 = 149 + 1	1 = 185 + 1	0 = 241	Number = 2767	Chi Square= 8.202324E-03	9 = 352
5 = 89 + 1	3 = 121	3 = 148	2 = 185 + 1	1 = 242 + 1	0 = 276	Number = 3137	Chi Square= 6.806579E-03
6 = 88	4 = 122 + 1	4 = 149 + 1	3 = 184	2 = 242 + 1	1 = 277 + 1	0 = 313	Number = 3607
7 = 89 + 1	5 = 122 + 1	5 = 149 + 1	4 = 185 + 1	3 = 241	2 = 277 + 1	1 = 314 + 1	0 = 360
8 = 89 + 1	6 = 121	6 = 148	5 = 185 + 1	4 = 242 + 1	3 = 276	2 = 314 + 1	1 = 361 + 1
9 = 88	7 = 122 + 1	7 = 149 + 1	6 = 184	5 = 242 + 1	4 = 277 + 1	3 = 313	2 = 361 + 1
Chi Square= 2.708804E-02	8 = 122 + 1	8 = 149 + 1	7 = 185 + 1	6 = 241	5 = 277 + 1	4 = 314 + 1	3 = 360
Number = 937	9 = 121	9 = 148	8 = 185 + 1	7 = 242 + 1	6 = 276	5 = 314 + 1	4 = 361 + 1
0 = 93	Chi Square= 1.973685E-02	Chi Square= 1.615074E-02	9 = 184	8 = 242 + 1	7 = 277 + 1	6 = 313	5 = 361 + 1
1 = 94 + 1	Number = 1297	Number = 1567	Chi Square= 1.300108E-02	9 = 241	8 = 277 + 1	7 = 314 + 1	6 = 360
2 = 94 + 1	0 = 129	0 = 156	Number = 2017	Chi Square= 9.933774E-03	9 = 276	8 = 314 + 1	7 = 361 + 1
3 = 93	1 = 130 + 1	1 = 157 + 1	0 = 201	Number = 2447	Chi Square= 8.676789E-03	9 = 313	8 = 361 + 1
4 = 94 + 1	2 = 130 + 1	2 = 157 + 1	1 = 202 + 1	0 = 244	Number = 2777	Chi Square= 7.653061E-03	9 = 360
5 = 94 + 1	3 = 129	3 = 156	2 = 202 + 1	1 = 245 + 1	0 = 277	Number = 3167	Chi Square= 6.655573E-03
6 = 93	4 = 130 + 1	4 = 157 + 1	3 = 201	2 = 245 + 1	1 = 278 + 1	0 = 316	Number = 3617
7 = 94 + 1	5 = 130 + 1	5 = 157 + 1	4 = 202 + 1	3 = 244	2 = 278 + 1	1 = 317 + 1	0 = 361
8 = 94 + 1	6 = 129	6 = 156	5 = 202 + 1	4 = 245 + 1	3 = 277	2 = 317 + 1	1 = 362 + 1
9 = 93	7 = 130 + 1	7 = 157 + 1	6 = 201	5 = 245 + 1	4 = 278 + 1	3 = 316	2 = 362 + 1
Chi Square= 2.564103E-02	8 = 130 + 1	8 = 157 + 1	7 = 202 + 1	6 = 244	5 = 278 + 1	4 = 317 + 1	3 = 361
Number = 977	9 = 129	9 = 156	8 = 202 + 1	7 = 245 + 1	6 = 277	5 = 317 + 1	4 = 362 + 1
0 = 97	Chi Square= 1.851852E-02	Chi Square= 1.532567E-02	9 = 201	8 = 245 + 1	7 = 278 + 1	6 = 316	5 = 362 + 1
1 = 98 + 1	Number = 1327	Number = 1607	Chi Square= 1.190476E-02	9 = 244	8 = 278 + 1	7 = 317 + 1	6 = 361
2 = 98 + 1	0 = 132	0 = 160	Number = 2137	Chi Square= 9.811937E-03	9 = 277	8 = 317 + 1	7 = 362 + 1
3 = 97	1 = 133 + 1	1 = 161 + 1	0 = 213	Number = 2617	Chi Square= 8.645533E-03	9 = 316	8 = 362 + 1
4 = 98 + 1	2 = 133 + 1	2 = 161 + 1	1 = 214 + 1	0 = 261	Number = 2887	Chi Square= 7.580542E-03	9 = 361
5 = 98 + 1	3 = 132	3 = 160	2 = 214 + 1	1 = 262 + 1	0 = 288	Number = 3257	Chi Square= 6.637168E-03
6 = 97	4 = 133 + 1	4 = 161 + 1	3 = 213	2 = 262 + 1	1 = 289 + 1	0 = 325	Number = 3727

0 = 372	Number = 4057		Chi Square=	9 = 529	8 = 581 + 1	7 = 622 + 1	6 = 636
1 = 373 + 1	0 = 405	Number = 4337	4.983388E-03	Chi Square=	9 = 580	8 = 622 + 1	7 = 637 + 1
2 = 373 + 1	1 = 406 + 1	0 = 433		4.531723E-03	Chi Square=	9 = 621	8 = 637 + 1
3 = 372	2 = 406 + 1	1 = 434 + 1	Number = 4937		4.133655E-03	Chi Square=	9 = 636
4 = 373 + 1	3 = 405	2 = 434 + 1	0 = 493	Number = 5417		3.861004E-03	Chi Square=
5 = 373 + 1	4 = 406 + 1	3 = 433	1 = 494 + 1	0 = 541	Number = 5857		3.770028E-03
6 = 372	5 = 406 + 1	4 = 434 + 1	2 = 494 + 1	1 = 542 + 1	0 = 585	Number = 6247	
7 = 373 + 1	6 = 405	5 = 434 + 1	3 = 493	2 = 542 + 1	1 = 586 + 1	0 = 624	Number = 6737
8 = 373 + 1	7 = 406 + 1	6 = 433	4 = 494 + 1	3 = 541	2 = 586 + 1	1 = 625 + 1	0 = 673
9 = 372	8 = 406 + 1	7 = 434 + 1	5 = 494 + 1	4 = 542 + 1	3 = 585	2 = 625 + 1	1 = 674 + 1
Chi Square=	9 = 405	8 = 434 + 1	6 = 493	5 = 542 + 1	4 = 586 + 1	3 = 624	2 = 674 + 1
6.441223E-03	Chi Square=	9 = 433	7 = 494 + 1	6 = 541	5 = 586 + 1	4 = 625 + 1	3 = 673
	5.917159E-03	Chi Square=	8 = 494 + 1	7 = 542 + 1	6 = 585	5 = 625 + 1	4 = 674 + 1
Number = 3767		5.535055E-03	9 = 493	8 = 542 + 1	7 = 586 + 1	6 = 624	5 = 674 + 1
0 = 376	Number = 4127		Chi Square=	9 = 541	8 = 586 + 1	7 = 625 + 1	6 = 673
1 = 377 + 1	0 = 412	Number = 4447	4.862236E-03	Chi Square=	9 = 585	8 = 625 + 1	7 = 674 + 1
2 = 377 + 1	1 = 413 + 1	0 = 444		4.431315E-03	Chi Square=	9 = 624	8 = 674 + 1
3 = 376	2 = 413 + 1	1 = 445 + 1	Number = 4967		4.098361E-03	Chi Square=	9 = 673
4 = 377 + 1	3 = 412	2 = 445 + 1	0 = 496	Number = 5527		3.84246E-03	Chi Square=
5 = 377 + 1	4 = 413 + 1	3 = 444	1 = 497 + 1	0 = 552	Number = 5897		3.562946E-03
6 = 376	5 = 413 + 1	4 = 445 + 1	2 = 497 + 1	1 = 553 + 1	0 = 589	Number = 6257	
7 = 377 + 1	6 = 412	5 = 445 + 1	3 = 496	2 = 553 + 1	1 = 590 + 1	0 = 625	Number = 6857
8 = 377 + 1	7 = 413 + 1	6 = 444	4 = 497 + 1	3 = 552	2 = 590 + 1	1 = 626 + 1	0 = 685
9 = 376	8 = 413 + 1	7 = 445 + 1	5 = 497 + 1	4 = 553 + 1	3 = 589	2 = 626 + 1	1 = 686 + 1
Chi Square=	9 = 412	8 = 445 + 1	6 = 496	5 = 553 + 1	4 = 590 + 1	3 = 625	2 = 686 + 1
6.372809E-03	Chi Square=	9 = 444	7 = 497 + 1	6 = 552	5 = 590 + 1	4 = 626 + 1	3 = 685
	5.816771E-03	Chi Square=	8 = 497 + 1	7 = 553 + 1	6 = 589	5 = 626 + 1	4 = 686 + 1
Number = 3847		5.39811E-03	9 = 496	8 = 553 + 1	7 = 590 + 1	6 = 625	5 = 686 + 1
0 = 384	Number = 4177		Chi Square=	9 = 552	8 = 590 + 1	7 = 626 + 1	6 = 685
1 = 385 + 1	0 = 417	Number = 4457	4.832863E-03	Chi Square=	9 = 589	8 = 626 + 1	7 = 686 + 1
2 = 385 + 1	1 = 418 + 1	0 = 445		4.343105E-03	Chi Square=	9 = 625	8 = 686 + 1
3 = 384	2 = 418 + 1	1 = 446 + 1	Number = 5087		4.070557E-03	Chi Square=	9 = 685
4 = 385 + 1	3 = 417	2 = 446 + 1	0 = 508	Number = 5657		3.836317E-03	Chi Square=
5 = 385 + 1	4 = 418 + 1	3 = 445	1 = 509 + 1	0 = 565	Number = 5927		3.500584E-03
6 = 384	5 = 418 + 1	4 = 446 + 1	2 = 509 + 1	1 = 566 + 1	0 = 592	Number = 6287	
7 = 385 + 1	6 = 417	5 = 446 + 1	3 = 508	2 = 566 + 1	1 = 593 + 1	0 = 628	Number = 6967
8 = 385 + 1	7 = 418 + 1	6 = 445	4 = 509 + 1	3 = 565	2 = 593 + 1	1 = 629 + 1	0 = 696
9 = 384	8 = 418 + 1	7 = 446 + 1	5 = 509 + 1	4 = 566 + 1	3 = 592	2 = 629 + 1	1 = 697 + 1
Chi Square=	9 = 417	8 = 446 + 1	6 = 508	5 = 566 + 1	4 = 593 + 1	3 = 628	2 = 697 + 1
6.240249E-03	Chi Square=	9 = 445	7 = 509 + 1	6 = 565	5 = 593 + 1	4 = 629 + 1	3 = 696
	5.747126E-03	Chi Square=	8 = 509 + 1	7 = 566 + 1	6 = 592	5 = 629 + 1	4 = 697 + 1
Number = 3967		5.385996E-03	9 = 508	8 = 566 + 1	7 = 593 + 1	6 = 628	5 = 697 + 1
0 = 396	Number = 4217		Chi Square=	9 = 565	8 = 593 + 1	7 = 629 + 1	6 = 696
1 = 397 + 1	0 = 421	Number = 4567	4.718835E-03	Chi Square=	9 = 592	8 = 629 + 1	7 = 697 + 1
2 = 397 + 1	1 = 422 + 1	0 = 456		4.243282E-03	Chi Square=	9 = 628	8 = 697 + 1
3 = 396	2 = 422 + 1	1 = 457 + 1	Number = 5167		4.04995E-03	Chi Square=	9 = 696
4 = 397 + 1	3 = 421	2 = 457 + 1	0 = 516	Number = 5737		3.818009E-03	Chi Square=
5 = 397 + 1	4 = 422 + 1	3 = 456	1 = 517 + 1	0 = 573	Number = 6047		3.445306E-03
6 = 396	5 = 422 + 1	4 = 457 + 1	2 = 517 + 1	1 = 574 + 1	0 = 604	Number = 6337	
7 = 397 + 1	6 = 421	5 = 457 + 1	3 = 516	2 = 574 + 1	1 = 605 + 1	0 = 633	Number = 6977
8 = 397 + 1	7 = 422 + 1	6 = 456	4 = 517 + 1	3 = 573	2 = 605 + 1	1 = 634 + 1	0 = 697
9 = 396	8 = 422 + 1	7 = 457 + 1	5 = 517 + 1	4 = 574 + 1	3 = 604	2 = 634 + 1	1 = 698 + 1
Chi Square=	9 = 421	8 = 457 + 1	6 = 516	5 = 574 + 1	4 = 605 + 1	3 = 633	2 = 698 + 1
6.051437E-03	Chi Square=	9 = 456	7 = 517 + 1	6 = 573	5 = 605 + 1	4 = 634 + 1	3 = 697
	5.692599E-03	Chi Square=	8 = 517 + 1	7 = 574 + 1	6 = 604	5 = 634 + 1	4 = 698 + 1
Number = 4007		5.256241E-03	9 = 516	8 = 574 + 1	7 = 605 + 1	6 = 633	5 = 698 + 1
0 = 400	Number = 4327		Chi Square=	9 = 573	8 = 605 + 1	7 = 634 + 1	6 = 697
1 = 401 + 1	0 = 432	Number = 4817	4.645761E-03	Chi Square=	9 = 604	8 = 634 + 1	7 = 698 + 1
2 = 401 + 1	1 = 433 + 1	0 = 481		4.184101E-03	Chi Square=	9 = 633	8 = 698 + 1
3 = 400	2 = 433 + 1	1 = 482 + 1	Number = 5297		3.969567E-03	Chi Square=	9 = 697
4 = 401 + 1	3 = 432	2 = 482 + 1	0 = 529	Number = 5807		3.787879E-03	Chi Square=
5 = 401 + 1	4 = 433 + 1	3 = 481	1 = 530 + 1	0 = 580	Number = 6217		3.440367E-03
6 = 400	5 = 433 + 1	4 = 482 + 1	2 = 530 + 1	1 = 581 + 1	0 = 621	Number = 6367	
7 = 401 + 1	6 = 432	5 = 482 + 1	3 = 529	2 = 581 + 1	1 = 622 + 1	0 = 636	Number = 7057
8 = 401 + 1	7 = 433 + 1	6 = 481	4 = 530 + 1	3 = 580	2 = 622 + 1	1 = 637 + 1	0 = 705
9 = 400	8 = 433 + 1	7 = 482 + 1	5 = 530 + 1	4 = 581 + 1	3 = 621	2 = 637 + 1	1 = 706 + 1
Chi Square=	9 = 432	8 = 482 + 1	6 = 529	5 = 581 + 1	4 = 622 + 1	3 = 636	2 = 706 + 1
5.991013E-03	Chi Square=	9 = 481	7 = 530 + 1	6 = 580	5 = 622 + 1	4 = 637 + 1	3 = 705
	5.54785E-03		8 = 530 + 1	7 = 581 + 1	6 = 621	5 = 637 + 1	4 = 706 + 1

5 = 706 + 1	4 = 749 + 1	3 = 781	2 = 829 + 1	1 = 865 + 1	0 = 937	Number = 9857	
6 = 705	5 = 749 + 1	4 = 782 + 1	3 = 828	2 = 865 + 1	1 = 938 + 1	0 = 985	Number = 59
7 = 706 + 1	6 = 748	5 = 782 + 1	4 = 829 + 1	3 = 864	2 = 938 + 1	1 = 986 + 1	0 = 5
8 = 706 + 1	7 = 749 + 1	6 = 781	5 = 829 + 1	4 = 865 + 1	3 = 937	2 = 986 + 1	1 = 6 + 1
9 = 705	8 = 749 + 1	7 = 782 + 1	6 = 828	5 = 865 + 1	4 = 938 + 1	3 = 985	2 = 6 + 1
Chi Square=	9 = 748	8 = 782 + 1	7 = 829 + 1	6 = 864	5 = 938 + 1	4 = 986 + 1	3 = 6 + 1
3.401361E-03	Chi Square=	9 = 781	8 = 829 + 1	7 = 865 + 1	6 = 937	5 = 986 + 1	4 = 6 + 1
	3.205985E-03	Chi Square=	9 = 828	8 = 865 + 1	7 = 938 + 1	6 = 985	5 = 6 + 1
Number = 7177		3.070625E-03	Chi Square=	9 = 864	8 = 938 + 1	7 = 986 + 1	6 = 6 + 1
0 = 717	Number = 7577		2.896452E-03	Chi Square=	9 = 937	8 = 986 + 1	7 = 6 + 1
1 = 718 + 1	0 = 757	Number = 7927		2.77585E-03	Chi Square=	9 = 985	8 = 6 + 1
2 = 718 + 1	1 = 758 + 1	0 = 792	Number = 8297		2.559727E-03	Chi Square=	9 = 5
3 = 717	2 = 758 + 1	1 = 793 + 1	0 = 829	Number = 8807		2.435065E-03	Chi Square=
4 = 718 + 1	3 = 757	2 = 793 + 1	1 = 830 + 1	0 = 880	Number = 9497		.275862
5 = 718 + 1	4 = 758 + 1	3 = 792	2 = 830 + 1	1 = 881 + 1	0 = 949	Number = 9887	
6 = 717	5 = 758 + 1	4 = 793 + 1	3 = 829	2 = 881 + 1	1 = 950 + 1	0 = 988	Number = 109
7 = 718 + 1	6 = 757	5 = 793 + 1	4 = 830 + 1	3 = 880	2 = 950 + 1	1 = 989 + 1	0 = 10
8 = 718 + 1	7 = 758 + 1	6 = 792	5 = 830 + 1	4 = 881 + 1	3 = 949	2 = 989 + 1	1 = 11 + 1
9 = 717	8 = 758 + 1	7 = 793 + 1	6 = 829	5 = 881 + 1	4 = 950 + 1	3 = 988	2 = 11 + 1
Chi Square=	9 = 757	8 = 793 + 1	7 = 830 + 1	6 = 880	5 = 950 + 1	4 = 989 + 1	3 = 11 + 1
3.344482E-03	Chi Square=	9 = 792	8 = 830 + 1	7 = 881 + 1	6 = 949	5 = 989 + 1	4 = 11 + 1
	3.167899E-03	Chi Square=	9 = 829	8 = 881 + 1	7 = 950 + 1	6 = 988	5 = 11 + 1
Number = 7207		3.028009E-03	Chi Square=	9 = 880	8 = 950 + 1	7 = 989 + 1	6 = 11 + 1
0 = 720	Number = 7607		2.892961E-03	Chi Square=	9 = 949	8 = 989 + 1	7 = 11 + 1
1 = 721 + 1	0 = 760	Number = 7937		2.725415E-03	Chi Square=	9 = 988	8 = 11 + 1
2 = 721 + 1	1 = 761 + 1	0 = 793	Number = 8377		2.52738E-03	Chi Square=	9 = 10
3 = 720	2 = 761 + 1	1 = 794 + 1	0 = 837	Number = 8887		2.427676E-03	Chi Square=
4 = 721 + 1	3 = 760	2 = 794 + 1	1 = 838 + 1	0 = 888	Number = 9697		.1481481
5 = 721 + 1	4 = 761 + 1	3 = 793	2 = 838 + 1	1 = 889 + 1	0 = 969	Number = 9967	
6 = 720	5 = 761 + 1	4 = 794 + 1	3 = 837	2 = 889 + 1	1 = 970 + 1	0 = 996	Number = 149
7 = 721 + 1	6 = 760	5 = 794 + 1	4 = 838 + 1	3 = 888	2 = 970 + 1	1 = 997 + 1	0 = 14
8 = 721 + 1	7 = 761 + 1	6 = 793	5 = 838 + 1	4 = 889 + 1	3 = 969	2 = 997 + 1	1 = 15 + 1
9 = 720	8 = 761 + 1	7 = 794 + 1	6 = 837	5 = 889 + 1	4 = 970 + 1	3 = 996	2 = 15 + 1
Chi Square=	9 = 760	8 = 794 + 1	7 = 838 + 1	6 = 888	5 = 970 + 1	4 = 997 + 1	3 = 15 + 1
3.330558E-03	Chi Square=	9 = 793	8 = 838 + 1	7 = 889 + 1	6 = 969	5 = 997 + 1	4 = 15 + 1
	3.155404E-03	Chi Square=	9 = 837	8 = 889 + 1	7 = 970 + 1	6 = 996	5 = 15 + 1
Number = 7247		3.024194E-03	Chi Square=	9 = 888	8 = 970 + 1	7 = 997 + 1	6 = 15 + 1
0 = 724	Number = 7687		2.86533E-03	Chi Square=	9 = 969	8 = 997 + 1	7 = 15 + 1
1 = 725 + 1	0 = 768	Number = 8017		2.700878E-03	Chi Square=	9 = 996	8 = 15 + 1
2 = 725 + 1	1 = 769 + 1	0 = 801	Number = 8447		2.475248E-03	Chi Square=	9 = 14
3 = 724	2 = 769 + 1	1 = 802 + 1	0 = 844	Number = 9137		2.408188E-03	Chi Square=
4 = 725 + 1	3 = 768	2 = 802 + 1	1 = 845 + 1	0 = 913	Number = 9767		.1081081
5 = 725 + 1	4 = 769 + 1	3 = 801	2 = 845 + 1	1 = 914 + 1	0 = 976	Number = 19	
6 = 724	5 = 769 + 1	4 = 802 + 1	3 = 844	2 = 914 + 1	1 = 977 + 1	0 = 1	Number = 179
7 = 725 + 1	6 = 768	5 = 802 + 1	4 = 845 + 1	3 = 913	2 = 977 + 1	1 = 2 + 1	0 = 17
8 = 725 + 1	7 = 769 + 1	6 = 801	5 = 845 + 1	4 = 914 + 1	3 = 976	2 = 2 + 1	1 = 18 + 1
9 = 724	8 = 769 + 1	7 = 802 + 1	6 = 844	5 = 914 + 1	4 = 977 + 1	3 = 2 + 1	2 = 18 + 1
Chi Square=	9 = 768	8 = 802 + 1	7 = 845 + 1	6 = 913	5 = 977 + 1	4 = 2 + 1	3 = 18 + 1
3.312172E-03	Chi Square=	9 = 801	8 = 845 + 1	7 = 914 + 1	6 = 976	5 = 2 + 1	4 = 18 + 1
	3.122561E-03	Chi Square=	9 = 844	8 = 914 + 1	7 = 977 + 1	6 = 2 + 1	5 = 18 + 1
Number = 7457		2.994012E-03	Chi Square=	9 = 913	8 = 977 + 1	7 = 2 + 1	6 = 18 + 1
0 = 745	Number = 7727		2.841582E-03	Chi Square=	9 = 976	8 = 2 + 1	7 = 18 + 1
1 = 746 + 1	0 = 772	Number = 8087		2.62697E-03	Chi Square=	9 = 1	8 = 18 + 1
2 = 746 + 1	1 = 773 + 1	0 = 808	Number = 8537		2.457506E-03	Chi Square=	9 = 17
3 = 745	2 = 773 + 1	1 = 809 + 1	0 = 853	Number = 9257		.888889	Chi Square=
4 = 746 + 1	3 = 772	2 = 809 + 1	1 = 854 + 1	0 = 925	Number = 9817		8.988765E-02
5 = 746 + 1	4 = 773 + 1	3 = 808	2 = 854 + 1	1 = 926 + 1	0 = 981	Number = 29	
6 = 745	5 = 773 + 1	4 = 809 + 1	3 = 853	2 = 926 + 1	1 = 982 + 1	0 = 2	Number = 229
7 = 746 + 1	6 = 772	5 = 809 + 1	4 = 854 + 1	3 = 925	2 = 982 + 1	1 = 3 + 1	0 = 22
8 = 746 + 1	7 = 773 + 1	6 = 808	5 = 854 + 1	4 = 926 + 1	3 = 981	2 = 3 + 1	1 = 23 + 1
9 = 745	8 = 773 + 1	7 = 809 + 1	6 = 853	5 = 926 + 1	4 = 982 + 1	3 = 3 + 1	2 = 23 + 1
Chi Square=	9 = 772	8 = 809 + 1	7 = 854 + 1	6 = 925	5 = 982 + 1	4 = 3 + 1	3 = 23 + 1
3.218884E-03	Chi Square=	9 = 808	8 = 854 + 1	7 = 926 + 1	6 = 981	5 = 3 + 1	4 = 23 + 1
	3.106394E-03	Chi Square=	9 = 853	8 = 926 + 1	7 = 982 + 1	6 = 3 + 1	5 = 23 + 1
Number = 7487		2.968093E-03	Chi Square=	9 = 925	8 = 982 + 1	7 = 3 + 1	6 = 23 + 1
0 = 748	Number = 7817		2.811622E-03	Chi Square=	9 = 981	8 = 3 + 1	7 = 23 + 1
1 = 749 + 1	0 = 781	Number = 8287		2.592913E-03	Chi Square=	9 = 2	8 = 23 + 1
2 = 749 + 1	1 = 782 + 1	0 = 828	Number = 8647		2.444988E-03	Chi Square=	9 = 22
3 = 748	2 = 782 + 1	1 = 829 + 1	0 = 864	Number = 9377		.5714286	

Chi Square= 7.017545E-02	9 = 49 Chi Square= 3.212852E-02	8 = 102 + 1 9 = 101 Chi Square= 1.571709E-02	7 = 143 + 1 8 = 143 + 1 9 = 142 Chi Square= 1.120448E-02	6 = 179 + 1 7 = 179 + 1 8 = 179 + 1 9 = 178 Chi Square= 8.948545E-03	5 = 210 + 1 6 = 210 + 1 7 = 210 + 1 8 = 210 + 1 9 = 209 Chi Square= 7.62631E-03	4 = 239 + 1 5 = 239 + 1 6 = 239 + 1 7 = 239 + 1 8 = 239 + 1 9 = 238 Chi Square= 6.700167E-03	3 = 270 + 1 4 = 270 + 1 5 = 270 + 1 6 = 270 + 1 7 = 270 + 1 8 = 270 + 1 9 = 269 Chi Square= 5.93032E-03
Number = 269 0 = 26 1 = 27 + 1 2 = 27 + 1 3 = 27 + 1 4 = 27 + 1 5 = 27 + 1 6 = 27 + 1 7 = 27 + 1 8 = 27 + 1 9 = 26 Chi Square= .0597015	Number = 509 0 = 50 1 = 51 + 1 2 = 51 + 1 3 = 51 + 1 4 = 51 + 1 5 = 51 + 1 6 = 51 + 1 7 = 51 + 1 8 = 51 + 1 9 = 50 Chi Square= 3.149607E-02	Number = 1069 0 = 106 1 = 107 + 1 2 = 107 + 1 3 = 107 + 1 4 = 107 + 1 5 = 107 + 1 6 = 107 + 1 7 = 107 + 1 8 = 107 + 1 9 = 106 Chi Square= 1.498127E-02	Number = 1549 0 = 154 1 = 155 + 1 2 = 155 + 1 3 = 155 + 1 4 = 155 + 1 5 = 155 + 1 6 = 155 + 1 7 = 155 + 1 8 = 155 + 1 9 = 154 Chi Square= 1.033592E-02	Number = 1949 0 = 194 1 = 195 + 1 2 = 195 + 1 3 = 195 + 1 4 = 195 + 1 5 = 195 + 1 6 = 195 + 1 7 = 195 + 1 8 = 195 + 1 9 = 194 Chi Square= 8.213552E-03	Number = 2179 0 = 217 1 = 218 + 1 2 = 218 + 1 3 = 218 + 1 4 = 218 + 1 5 = 218 + 1 6 = 218 + 1 7 = 218 + 1 8 = 218 + 1 9 = 217 Chi Square= 7.346189E-03	Number = 2459 0 = 245 1 = 246 + 1 2 = 246 + 1 3 = 246 + 1 4 = 246 + 1 5 = 246 + 1 6 = 246 + 1 7 = 246 + 1 8 = 246 + 1 9 = 245 Chi Square= 6.509357E-03	Number = 2789 0 = 278 1 = 279 + 1 2 = 279 + 1 3 = 279 + 1 4 = 279 + 1 5 = 279 + 1 6 = 279 + 1 7 = 279 + 1 8 = 279 + 1 9 = 278 Chi Square= 5.738882E-03
Number = 379 0 = 37 1 = 38 + 1 2 = 38 + 1 3 = 38 + 1 4 = 38 + 1 5 = 38 + 1 6 = 38 + 1 7 = 38 + 1 8 = 38 + 1 9 = 37 Chi Square= 4.232805E-02	Number = 619 0 = 61 1 = 62 + 1 2 = 62 + 1 3 = 62 + 1 4 = 62 + 1 5 = 62 + 1 6 = 62 + 1 7 = 62 + 1 8 = 62 + 1 9 = 61 Chi Square= 2.588997E-02	Number = 1109 0 = 110 1 = 111 + 1 2 = 111 + 1 3 = 111 + 1 4 = 111 + 1 5 = 111 + 1 6 = 111 + 1 7 = 111 + 1 8 = 111 + 1 9 = 110 Chi Square= 1.444043E-02	Number = 1579 0 = 157 1 = 158 + 1 2 = 158 + 1 3 = 158 + 1 4 = 158 + 1 5 = 158 + 1 6 = 158 + 1 7 = 158 + 1 8 = 158 + 1 9 = 157 Chi Square= 1.013942E-02	Number = 1979 0 = 197 1 = 198 + 1 2 = 198 + 1 3 = 198 + 1 4 = 198 + 1 5 = 198 + 1 6 = 198 + 1 7 = 198 + 1 8 = 198 + 1 9 = 197 Chi Square= 8.088978E-03	Number = 2269 0 = 226 1 = 227 + 1 2 = 227 + 1 3 = 227 + 1 4 = 227 + 1 5 = 227 + 1 6 = 227 + 1 7 = 227 + 1 8 = 227 + 1 9 = 226 Chi Square= 7.054673E-03	Number = 2539 0 = 253 1 = 254 + 1 2 = 254 + 1 3 = 254 + 1 4 = 254 + 1 5 = 254 + 1 6 = 254 + 1 7 = 254 + 1 8 = 254 + 1 9 = 253 Chi Square= 6.304176E-03	Number = 2819 0 = 281 1 = 282 + 1 2 = 282 + 1 3 = 282 + 1 4 = 282 + 1 5 = 282 + 1 6 = 282 + 1 7 = 282 + 1 8 = 282 + 1 9 = 281 Chi Square= 5.677787E-03
Number = 389 0 = 38 1 = 39 + 1 2 = 39 + 1 3 = 39 + 1 4 = 39 + 1 5 = 39 + 1 6 = 39 + 1 7 = 39 + 1 8 = 39 + 1 9 = 38 Chi Square= 4.123712E-02	Number = 659 0 = 65 1 = 66 + 1 2 = 66 + 1 3 = 66 + 1 4 = 66 + 1 5 = 66 + 1 6 = 66 + 1 7 = 66 + 1 8 = 66 + 1 9 = 65 Chi Square= 2.431611E-02	Number = 1229 0 = 122 1 = 123 + 1 2 = 123 + 1 3 = 123 + 1 4 = 123 + 1 5 = 123 + 1 6 = 123 + 1 7 = 123 + 1 8 = 123 + 1 9 = 122 Chi Square= 1.302931E-02	Number = 1619 0 = 161 1 = 162 + 1 2 = 162 + 1 3 = 162 + 1 4 = 162 + 1 5 = 162 + 1 6 = 162 + 1 7 = 162 + 1 8 = 162 + 1 9 = 161 Chi Square= 9.888751E-03	Number = 2029 0 = 202 1 = 203 + 1 2 = 203 + 1 3 = 203 + 1 4 = 203 + 1 5 = 203 + 1 6 = 203 + 1 7 = 203 + 1 8 = 203 + 1 9 = 202 Chi Square= 7.889546E-03	Number = 2309 0 = 230 1 = 231 + 1 2 = 231 + 1 3 = 231 + 1 4 = 231 + 1 5 = 231 + 1 6 = 231 + 1 7 = 231 + 1 8 = 231 + 1 9 = 230 Chi Square= 6.932409E-03	Number = 2549 0 = 254 1 = 255 + 1 2 = 255 + 1 3 = 255 + 1 4 = 255 + 1 5 = 255 + 1 6 = 255 + 1 7 = 255 + 1 8 = 255 + 1 9 = 254 Chi Square= 6.279435E-03	Number = 2909 0 = 290 1 = 291 + 1 2 = 291 + 1 3 = 291 + 1 4 = 291 + 1 5 = 291 + 1 6 = 291 + 1 7 = 291 + 1 8 = 291 + 1 9 = 290 Chi Square= 5.502064E-03
Number = 419 0 = 41 1 = 42 + 1 2 = 42 + 1 3 = 42 + 1 4 = 42 + 1 5 = 42 + 1 6 = 42 + 1 7 = 42 + 1 8 = 42 + 1 9 = 41 Chi Square= 3.827751E-02	Number = 709 0 = 70 1 = 71 + 1 2 = 71 + 1 3 = 71 + 1 4 = 71 + 1 5 = 71 + 1 6 = 71 + 1 7 = 71 + 1 8 = 71 + 1 9 = 70 Chi Square= 2.259887E-02	Number = 1259 0 = 125 1 = 126 + 1 2 = 126 + 1 3 = 126 + 1 4 = 126 + 1 5 = 126 + 1 6 = 126 + 1 7 = 126 + 1 8 = 126 + 1 9 = 125 Chi Square= .0127186	Number = 1709 0 = 170 1 = 171 + 1 2 = 171 + 1 3 = 171 + 1 4 = 171 + 1 5 = 171 + 1 6 = 171 + 1 7 = 171 + 1 8 = 171 + 1 9 = 170 Chi Square= 9.367681E-03	Number = 2069 0 = 206 1 = 207 + 1 2 = 207 + 1 3 = 207 + 1 4 = 207 + 1 5 = 207 + 1 6 = 207 + 1 7 = 207 + 1 8 = 207 + 1 9 = 206 Chi Square= 7.736943E-03	Number = 2339 0 = 233 1 = 234 + 1 2 = 234 + 1 3 = 234 + 1 4 = 234 + 1 5 = 234 + 1 6 = 234 + 1 7 = 234 + 1 8 = 234 + 1 9 = 233 Chi Square= 6.843456E-03	Number = 2579 0 = 257 1 = 258 + 1 2 = 258 + 1 3 = 258 + 1 4 = 258 + 1 5 = 258 + 1 6 = 258 + 1 7 = 258 + 1 8 = 258 + 1 9 = 257 Chi Square= 6.206363E-03	Number = 2939 0 = 293 1 = 294 + 1 2 = 294 + 1 3 = 294 + 1 4 = 294 + 1 5 = 294 + 1 6 = 294 + 1 7 = 294 + 1 8 = 294 + 1 9 = 293 Chi Square= 5.445883E-03
Number = 499 0 = 49 1 = 50 + 1 2 = 50 + 1 3 = 50 + 1 4 = 50 + 1 5 = 50 + 1 6 = 50 + 1 7 = 50 + 1 8 = 50 + 1	Number = 1019 0 = 101 1 = 102 + 1 2 = 102 + 1 3 = 102 + 1 4 = 102 + 1 5 = 102 + 1 6 = 102 + 1 7 = 102 + 1	Number = 1429 0 = 142 1 = 143 + 1 2 = 143 + 1 3 = 143 + 1 4 = 143 + 1 5 = 143 + 1 6 = 143 + 1	Number = 1789 0 = 178 1 = 179 + 1 2 = 179 + 1 3 = 179 + 1 4 = 179 + 1 5 = 179 + 1	Number = 2099 0 = 209 1 = 210 + 1 2 = 210 + 1 3 = 210 + 1 4 = 210 + 1	Number = 2389 0 = 238 1 = 239 + 1 2 = 239 + 1 3 = 239 + 1	Number = 2699 0 = 269 1 = 270 + 1 2 = 270 + 1	Number = 3019 0 = 301 1 = 302 + 1

2 = 302 + 1	1 = 354 + 1	0 = 401	Number = 4259		Chi Square=	9 = 593	8 = 666 + 1
3 = 302 + 1	2 = 354 + 1	1 = 402 + 1	0 = 425	Number = 5179	2.827855E-03	Chi Square=	9 = 665
4 = 302 + 1	3 = 354 + 1	2 = 402 + 1	1 = 426 + 1	0 = 517		2.69451E-03	Chi Square=
5 = 302 + 1	4 = 354 + 1	3 = 402 + 1	2 = 426 + 1	1 = 518 + 1	Number = 5669		2.403124E-03
6 = 302 + 1	5 = 354 + 1	4 = 402 + 1	3 = 426 + 1	2 = 518 + 1	0 = 566	Number = 6029	
7 = 302 + 1	6 = 354 + 1	5 = 402 + 1	4 = 426 + 1	3 = 518 + 1	1 = 567 + 1	0 = 602	Number = 6709
8 = 302 + 1	7 = 354 + 1	6 = 402 + 1	5 = 426 + 1	4 = 518 + 1	2 = 567 + 1	1 = 603 + 1	0 = 670
9 = 301	8 = 354 + 1	7 = 402 + 1	6 = 426 + 1	5 = 518 + 1	3 = 567 + 1	2 = 603 + 1	1 = 671 + 1
Chi Square=	9 = 353	8 = 402 + 1	7 = 426 + 1	6 = 518 + 1	4 = 567 + 1	3 = 603 + 1	2 = 671 + 1
5.301525E-03	Chi Square=	9 = 401	8 = 426 + 1	7 = 518 + 1	5 = 567 + 1	4 = 603 + 1	3 = 671 + 1
	4.52233E-03	Chi Square=	9 = 425	8 = 518 + 1	6 = 567 + 1	5 = 603 + 1	4 = 671 + 1
Number = 3259		3.982082E-03	Chi Square=	9 = 517	7 = 567 + 1	6 = 603 + 1	5 = 671 + 1
0 = 325	Number = 3659		3.757634E-03	Chi Square=	8 = 567 + 1	7 = 603 + 1	6 = 671 + 1
1 = 326 + 1	0 = 365	Number = 4099		3.089997E-03	9 = 566	8 = 603 + 1	7 = 671 + 1
2 = 326 + 1	1 = 366 + 1	0 = 409	Number = 4339		Chi Square=	9 = 602	8 = 671 + 1
3 = 326 + 1	2 = 366 + 1	1 = 410 + 1	0 = 433	Number = 5189	2.822866E-03	Chi Square=	9 = 670
4 = 326 + 1	3 = 366 + 1	2 = 410 + 1	1 = 434 + 1	0 = 518		2.654281E-03	Chi Square=
5 = 326 + 1	4 = 366 + 1	3 = 410 + 1	2 = 434 + 1	1 = 519 + 1	Number = 5749		2.385212E-03
6 = 326 + 1	5 = 366 + 1	4 = 410 + 1	3 = 434 + 1	2 = 519 + 1	0 = 574	Number = 6269	
7 = 326 + 1	6 = 366 + 1	5 = 410 + 1	4 = 434 + 1	3 = 519 + 1	1 = 575 + 1	0 = 626	Number = 6779
8 = 326 + 1	7 = 366 + 1	6 = 410 + 1	5 = 434 + 1	4 = 519 + 1	2 = 575 + 1	1 = 627 + 1	0 = 677
9 = 325	8 = 366 + 1	7 = 410 + 1	6 = 434 + 1	5 = 519 + 1	3 = 575 + 1	2 = 627 + 1	1 = 678 + 1
Chi Square=	9 = 365	8 = 410 + 1	7 = 434 + 1	6 = 519 + 1	4 = 575 + 1	3 = 627 + 1	2 = 678 + 1
4.910989E-03	Chi Square=	9 = 409	8 = 434 + 1	7 = 519 + 1	5 = 575 + 1	4 = 627 + 1	3 = 678 + 1
	4.373976E-03	Chi Square=	9 = 433	8 = 519 + 1	6 = 575 + 1	5 = 627 + 1	4 = 678 + 1
Number = 3299		3.904344E-03	Chi Square=	9 = 518	7 = 575 + 1	6 = 627 + 1	5 = 678 + 1
0 = 329	Number = 3709		3.688336E-03	Chi Square=	8 = 575 + 1	7 = 627 + 1	6 = 678 + 1
1 = 330 + 1	0 = 370	Number = 4139		3.084041E-03	9 = 574	8 = 627 + 1	7 = 678 + 1
2 = 330 + 1	1 = 371 + 1	0 = 413	Number = 4349		Chi Square=	9 = 626	8 = 678 + 1
3 = 330 + 1	2 = 371 + 1	1 = 414 + 1	0 = 434	Number = 5309	2.783577E-03	Chi Square=	9 = 677
4 = 330 + 1	3 = 371 + 1	2 = 414 + 1	1 = 435 + 1	0 = 530		2.552649E-03	Chi Square=
5 = 330 + 1	4 = 371 + 1	3 = 414 + 1	2 = 435 + 1	1 = 531 + 1	Number = 5779		2.360579E-03
6 = 330 + 1	5 = 371 + 1	4 = 414 + 1	3 = 435 + 1	2 = 531 + 1	0 = 577	Number = 6389	
7 = 330 + 1	6 = 371 + 1	5 = 414 + 1	4 = 435 + 1	3 = 531 + 1	1 = 578 + 1	0 = 638	Number = 6829
8 = 330 + 1	7 = 371 + 1	6 = 414 + 1	5 = 435 + 1	4 = 531 + 1	2 = 578 + 1	1 = 639 + 1	0 = 682
9 = 329	8 = 371 + 1	7 = 414 + 1	6 = 435 + 1	5 = 531 + 1	3 = 578 + 1	2 = 639 + 1	1 = 683 + 1
Chi Square=	9 = 370	8 = 414 + 1	7 = 435 + 1	6 = 531 + 1	4 = 578 + 1	3 = 639 + 1	2 = 683 + 1
4.851426E-03	Chi Square=	9 = 413	8 = 435 + 1	7 = 531 + 1	5 = 578 + 1	4 = 639 + 1	3 = 683 + 1
	4.314995E-03	Chi Square=	9 = 434	8 = 531 + 1	6 = 578 + 1	5 = 639 + 1	4 = 683 + 1
Number = 3389		3.866603E-03	Chi Square=	9 = 530	7 = 578 + 1	6 = 639 + 1	5 = 683 + 1
0 = 338	Number = 3779		3.679853E-03	Chi Square=	8 = 578 + 1	7 = 639 + 1	6 = 683 + 1
1 = 339 + 1	0 = 377	Number = 4219		3.014319E-03	9 = 577	8 = 639 + 1	7 = 683 + 1
2 = 339 + 1	1 = 378 + 1	0 = 421	Number = 5059		Chi Square=	9 = 638	8 = 683 + 1
3 = 339 + 1	2 = 378 + 1	1 = 422 + 1	0 = 505	Number = 5419	2.769125E-03	Chi Square=	9 = 682
4 = 339 + 1	3 = 378 + 1	2 = 422 + 1	1 = 506 + 1	0 = 541		2.504697E-03	Chi Square=
5 = 339 + 1	4 = 378 + 1	3 = 422 + 1	2 = 506 + 1	1 = 542 + 1	Number = 5869		2.343293E-03
6 = 339 + 1	5 = 378 + 1	4 = 422 + 1	3 = 506 + 1	2 = 542 + 1	0 = 586	Number = 6619	
7 = 339 + 1	6 = 378 + 1	5 = 422 + 1	4 = 506 + 1	3 = 542 + 1	1 = 587 + 1	0 = 661	Number = 6869
8 = 339 + 1	7 = 378 + 1	6 = 422 + 1	5 = 506 + 1	4 = 542 + 1	2 = 587 + 1	1 = 662 + 1	0 = 686
9 = 338	8 = 378 + 1	7 = 422 + 1	6 = 506 + 1	5 = 542 + 1	3 = 587 + 1	2 = 662 + 1	1 = 687 + 1
Chi Square=	9 = 377	8 = 422 + 1	7 = 506 + 1	6 = 542 + 1	4 = 587 + 1	3 = 662 + 1	2 = 687 + 1
4.722551E-03	Chi Square=	9 = 421	8 = 506 + 1	7 = 542 + 1	5 = 587 + 1	4 = 662 + 1	3 = 687 + 1
	4.235046E-03	Chi Square=	9 = 505	8 = 542 + 1	6 = 587 + 1	5 = 662 + 1	4 = 687 + 1
Number = 3469		3.793268E-03	Chi Square=	9 = 541	7 = 587 + 1	6 = 662 + 1	5 = 687 + 1
0 = 346	Number = 3989		3.163306E-03	Chi Square=	8 = 587 + 1	7 = 662 + 1	6 = 687 + 1
1 = 347 + 1	0 = 398	Number = 4229		2.95312E-03	9 = 586	8 = 662 + 1	7 = 687 + 1
2 = 347 + 1	1 = 399 + 1	0 = 422	Number = 5099		Chi Square=	9 = 661	8 = 687 + 1
3 = 347 + 1	2 = 399 + 1	1 = 423 + 1	0 = 509	Number = 5659	2.726654E-03	Chi Square=	9 = 686
4 = 347 + 1	3 = 399 + 1	2 = 423 + 1	1 = 510 + 1	0 = 565		2.417649E-03	Chi Square=
5 = 347 + 1	4 = 399 + 1	3 = 423 + 1	2 = 510 + 1	1 = 566 + 1	Number = 5939		2.329645E-03
6 = 347 + 1	5 = 399 + 1	4 = 423 + 1	3 = 510 + 1	2 = 566 + 1	0 = 593	Number = 6659	
7 = 347 + 1	6 = 399 + 1	5 = 423 + 1	4 = 510 + 1	3 = 566 + 1	1 = 594 + 1	0 = 665	Number = 6899
8 = 347 + 1	7 = 399 + 1	6 = 423 + 1	5 = 510 + 1	4 = 566 + 1	2 = 594 + 1	1 = 666 + 1	0 = 689
9 = 346	8 = 399 + 1	7 = 423 + 1	6 = 510 + 1	5 = 566 + 1	3 = 594 + 1	2 = 666 + 1	1 = 690 + 1
Chi Square=	9 = 398	8 = 423 + 1	7 = 510 + 1	6 = 566 + 1	4 = 594 + 1	3 = 666 + 1	2 = 690 + 1
4.613611E-03	Chi Square=	9 = 422	8 = 510 + 1	7 = 566 + 1	5 = 594 + 1	4 = 666 + 1	3 = 690 + 1
	4.012037E-03	Chi Square=	9 = 509	8 = 566 + 1	6 = 594 + 1	5 = 666 + 1	4 = 690 + 1
Number = 3539		3.784296E-03	Chi Square=	9 = 565	7 = 594 + 1	6 = 666 + 1	5 = 690 + 1
0 = 353	Number = 4019		3.138486E-03		8 = 594 + 1	7 = 666 + 1	6 = 690 + 1

7 = 690 + 1	6 = 722 + 1	5 = 750 + 1	4 = 807 + 1	3 = 843 + 1	2 = 906 + 1	1 = 975 + 1
8 = 690 + 1	7 = 722 + 1	6 = 750 + 1	5 = 807 + 1	4 = 843 + 1	3 = 906 + 1	2 = 975 + 1
9 = 689	8 = 722 + 1	7 = 750 + 1	6 = 807 + 1	5 = 843 + 1	4 = 906 + 1	3 = 975 + 1
Chi Square=	9 = 721	8 = 750 + 1	7 = 807 + 1	6 = 843 + 1	5 = 906 + 1	4 = 975 + 1
2.319513E-03	Chi Square=	9 = 749	8 = 807 + 1	7 = 843 + 1	6 = 906 + 1	5 = 975 + 1
Number = 6949	2.216681E-03	Chi Square=	9 = 806	8 = 843 + 1	7 = 906 + 1	6 = 975 + 1
0 = 694	Number = 7229	2.133903E-03	Chi Square=	9 = 842	8 = 906 + 1	7 = 975 + 1
1 = 695 + 1	0 = 722	Number = 7699	1.983144E-03	Chi Square=	9 = 905	8 = 975 + 1
2 = 695 + 1	1 = 723 + 1	0 = 769	Number = 8179	1.898434E-03	Chi Square=	9 = 974
3 = 695 + 1	2 = 723 + 1	1 = 770 + 1	0 = 817	Number = 8669	1.766395E-03	Chi Square=
4 = 695 + 1	3 = 723 + 1	2 = 770 + 1	1 = 818 + 1	0 = 866	Number = 9109	1.641363E-03
5 = 695 + 1	4 = 723 + 1	3 = 770 + 1	2 = 818 + 1	1 = 867 + 1	0 = 910	Number = 9829
6 = 695 + 1	5 = 723 + 1	4 = 770 + 1	3 = 818 + 1	2 = 867 + 1	1 = 911 + 1	0 = 982
7 = 695 + 1	6 = 723 + 1	5 = 770 + 1	4 = 818 + 1	3 = 867 + 1	2 = 911 + 1	1 = 983 + 1
8 = 695 + 1	7 = 723 + 1	6 = 770 + 1	5 = 818 + 1	4 = 867 + 1	3 = 911 + 1	2 = 983 + 1
9 = 694	8 = 723 + 1	7 = 770 + 1	6 = 818 + 1	5 = 867 + 1	4 = 911 + 1	3 = 983 + 1
Chi Square=	9 = 722	8 = 770 + 1	7 = 818 + 1	6 = 867 + 1	5 = 911 + 1	4 = 983 + 1
2.302821E-03	Chi Square=	9 = 769	8 = 818 + 1	7 = 867 + 1	6 = 911 + 1	5 = 983 + 1
Number = 7019	2.213614E-03	Chi Square=	9 = 817	8 = 867 + 1	7 = 911 + 1	6 = 983 + 1
0 = 701	Number = 7309	2.078462E-03	Chi Square=	9 = 866	8 = 911 + 1	7 = 983 + 1
1 = 702 + 1	0 = 730	Number = 7829	1.956469E-03	Chi Square=	9 = 910	8 = 983 + 1
2 = 702 + 1	1 = 731 + 1	0 = 782	Number = 8219	1.84587E-03	Chi Square=	9 = 982
3 = 702 + 1	2 = 731 + 1	1 = 783 + 1	0 = 821	Number = 8699	1.756698E-03	Chi Square=
4 = 702 + 1	3 = 731 + 1	2 = 783 + 1	1 = 822 + 1	0 = 869	Number = 9539	1.628002E-03
5 = 702 + 1	4 = 731 + 1	3 = 783 + 1	2 = 822 + 1	1 = 870 + 1	0 = 953	Number = 9949
6 = 702 + 1	5 = 731 + 1	4 = 783 + 1	3 = 822 + 1	2 = 870 + 1	1 = 954 + 1	0 = 994
7 = 702 + 1	6 = 731 + 1	5 = 783 + 1	4 = 822 + 1	3 = 870 + 1	2 = 954 + 1	1 = 995 + 1
8 = 702 + 1	7 = 731 + 1	6 = 783 + 1	5 = 822 + 1	4 = 870 + 1	3 = 954 + 1	2 = 995 + 1
9 = 701	8 = 731 + 1	7 = 783 + 1	6 = 822 + 1	5 = 870 + 1	4 = 954 + 1	3 = 995 + 1
Chi Square=	9 = 730	8 = 783 + 1	7 = 822 + 1	6 = 870 + 1	5 = 954 + 1	4 = 995 + 1
2.279852E-03	Chi Square=	9 = 782	8 = 822 + 1	7 = 870 + 1	6 = 954 + 1	5 = 995 + 1
Number = 7069	2.189382E-03	Chi Square=	9 = 821	8 = 870 + 1	7 = 954 + 1	6 = 995 + 1
0 = 706	Number = 7349	2.043945E-03	Chi Square=	9 = 869	8 = 954 + 1	7 = 995 + 1
1 = 707 + 1	0 = 734	Number = 7949	1.946946E-03	Chi Square=	9 = 953	8 = 995 + 1
2 = 707 + 1	1 = 735 + 1	0 = 794	Number = 8269	1.839504E-03	Chi Square=	9 = 994
3 = 707 + 1	2 = 735 + 1	1 = 795 + 1	0 = 826	Number = 8819	1.677501E-03	Chi Square=
4 = 707 + 1	3 = 735 + 1	2 = 795 + 1	1 = 827 + 1	0 = 881	Number = 9629	1.608364E-03
5 = 707 + 1	4 = 735 + 1	3 = 795 + 1	2 = 827 + 1	1 = 882 + 1	0 = 962	
6 = 707 + 1	5 = 735 + 1	4 = 795 + 1	3 = 827 + 1	2 = 882 + 1	1 = 963 + 1	
7 = 707 + 1	6 = 735 + 1	5 = 795 + 1	4 = 827 + 1	3 = 882 + 1	2 = 963 + 1	
8 = 707 + 1	7 = 735 + 1	6 = 795 + 1	5 = 827 + 1	4 = 882 + 1	3 = 963 + 1	
9 = 706	8 = 735 + 1	7 = 795 + 1	6 = 827 + 1	5 = 882 + 1	4 = 963 + 1	
Chi Square=	9 = 734	8 = 795 + 1	7 = 827 + 1	6 = 882 + 1	5 = 963 + 1	
2.263724E-03	Chi Square=	9 = 794	8 = 827 + 1	7 = 882 + 1	6 = 963 + 1	
Number = 7109	2.177464E-03	Chi Square=	9 = 826	8 = 882 + 1	7 = 963 + 1	
0 = 710	Number = 7459	2.013085E-03	Chi Square=	9 = 881	8 = 963 + 1	
1 = 711 + 1	0 = 745	Number = 8059	1.935172E-03	Chi Square=	9 = 962	
2 = 711 + 1	1 = 746 + 1	0 = 805	Number = 8389	1.814471E-03	Chi Square=	
3 = 711 + 1	2 = 746 + 1	1 = 806 + 1	0 = 838	Number = 9029	1.66182E-03	
4 = 711 + 1	3 = 746 + 1	2 = 806 + 1	1 = 839 + 1	0 = 902	Number = 9739	
5 = 711 + 1	4 = 746 + 1	3 = 806 + 1	2 = 839 + 1	1 = 903 + 1	0 = 973	
6 = 711 + 1	5 = 746 + 1	4 = 806 + 1	3 = 839 + 1	2 = 903 + 1	1 = 974 + 1	
7 = 711 + 1	6 = 746 + 1	5 = 806 + 1	4 = 839 + 1	3 = 903 + 1	2 = 974 + 1	
8 = 711 + 1	7 = 746 + 1	6 = 806 + 1	5 = 839 + 1	4 = 903 + 1	3 = 974 + 1	
9 = 710	8 = 746 + 1	7 = 806 + 1	6 = 839 + 1	5 = 903 + 1	4 = 974 + 1	
Chi Square=	9 = 745	8 = 806 + 1	7 = 839 + 1	6 = 903 + 1	5 = 974 + 1	
2.250985E-03	Chi Square=	9 = 805	8 = 839 + 1	7 = 903 + 1	6 = 974 + 1	
Number = 7219	2.145348E-03	Chi Square=	9 = 838	8 = 903 + 1	7 = 974 + 1	
0 = 721	Number = 7499	1.985605E-03	Chi Square=	9 = 902	8 = 974 + 1	
1 = 722 + 1	0 = 749	Number = 8069	1.907487E-03	Chi Square=	9 = 973	
2 = 722 + 1	1 = 750 + 1	0 = 806	Number = 8429	1.772264E-03	Chi Square=	
3 = 722 + 1	2 = 750 + 1	1 = 807 + 1	0 = 842	Number = 9059	1.643048E-03	
4 = 722 + 1	3 = 750 + 1	2 = 807 + 1	1 = 843 + 1	0 = 905	Number = 9749	
5 = 722 + 1	4 = 750 + 1	3 = 807 + 1	2 = 843 + 1	1 = 906 + 1	0 = 974	

Here are more samples of prime numbers squared most numbers have nice pattern while some like 961, 1849 and 2809 set its own rules. Starting with a cyclic number ending with a 1 like 61, 131 and 181, squaring that number getting 3721, 17161 and 32761 the distribution of digits will also be a perfect 10 percent, see page 1 for a better list of these numbers. Many of the other numbers will be only 1 off except numbers like 703921 with a larger spread of 29 units.

By breaking the numbers down the cyclic numbers based on the last digit and then squaring the number. See the table below. The first five across all end with a one and then squared as 61 squared becomes 321 etc. the same with 23 squared is 529 then 7 is 49 19 is 361.

Number=61 ² =3721 0 = 366 1 = 366 2 = 366 3 = 366 4 = 366 5 = 366 6 = 366 7 = 366 8 = 366 9 = 366	Number=131 ² =17161 0 = 1703 1 = 1703 2 = 1703 3 = 1703 4 = 1703 5 = 1703 6 = 1703 7 = 1703 8 = 1703 9 = 1703	Number=181 ² =32761 0 = 3258 1 = 3258 2 = 3258 3 = 3258 4 = 3258 5 = 3258 6 = 3258 7 = 3258 8 = 3258 9 = 3258	Number=464 ² =212521 0 = 21206 1 = 21206 2 = 21206 3 = 21206 4 = 21206 5 = 21206 6 = 21206 7 = 21206 8 = 21206 9 = 21206	Number=491 ² =241081 0 = 24059 1 = 24059 2 = 24059 3 = 24059 4 = 24059 5 = 24059 6 = 24059 7 = 24059 8 = 24059 9 = 24059
Number=23 ² =529 0 = 50 1 = 51 + 1 2 = 51 + 1 3 = 50 4 = 51 + 1 5 = 51 + 1 6 = 50 7 = 51 + 1 8 = 51 + 1 9 = 50	Number=113 ² =12769 0 = 1265 1 = 1266 + 1 2 = 1266 + 1 3 = 1265 4 = 1266 + 1 5 = 1266 + 1 6 = 1265 7 = 1266 + 1 8 = 1266 + 1 9 = 1265	Number=193 ² =37249 0 = 3705 1 = 3706 + 1 2 = 3706 + 1 3 = 3705 4 = 3706 + 1 5 = 3706 + 1 6 = 3705 7 = 3706 + 1 8 = 3706 + 1 9 = 3705	Number=223 ² =49729 0 = 4950 1 = 4951 + 1 2 = 4951 + 1 3 = 4950 4 = 4951 + 1 5 = 4951 + 1 6 = 4950 7 = 4951 + 1 8 = 4951 + 1 9 = 4950	Number=433 ² =187489 0 = 18705 1 = 18706 + 1 2 = 18706 + 1 3 = 18705 4 = 18706 + 1 5 = 18706 + 1 6 = 18705 7 = 18706 + 1 8 = 18706 + 1 9 = 18705
Number=7 ² =49 0 = 4 1 = 4 2 = 4 3 = 5 + 1 4 = 4 5 = 4 6 = 5 + 1 7 = 4 8 = 4 9 = 4	Number=17 ² =289 0 = 27 1 = 27 2 = 27 3 = 28 + 1 4 = 27 5 = 27 6 = 28 + 1 7 = 27 8 = 27 9 = 27	Number=47 ² =2209 0 = 216 1 = 216 2 = 216 3 = 217 + 1 4 = 216 5 = 216 6 = 217 + 1 7 = 216 8 = 216 9 = 216	Number=97 ² =9409 0 = 931 1 = 931 2 = 931 3 = 932 + 1 4 = 931 5 = 931 6 = 932 + 1 7 = 931 8 = 931 9 = 931	Number=167 ² =27889 0 = 2772 1 = 2772 2 = 2772 3 = 2773 + 1 4 = 2772 5 = 2772 6 = 2773 + 1 7 = 2772 8 = 2772 9 = 2772
Number=19 ² =361 0 = 35 + 1 1 = 34 2 = 34 3 = 34 4 = 34 5 = 34 6 = 34 7 = 34 8 = 34 9 = 35 + 1	Number=29 ² =841 0 = 82 + 1 1 = 81 2 = 81 3 = 81 4 = 81 5 = 81 6 = 81 7 = 81 8 = 81 9 = 82 + 1	Number=109 ² =11881 0 = 1178 + 1 1 = 1177 2 = 1177 3 = 1177 4 = 1177 5 = 1177 6 = 1177 7 = 1177 8 = 1177 9 = 1178 + 1	Number=149 ² =22201 0 = 2206 + 1 1 = 2205 2 = 2205 3 = 2205 4 = 2205 5 = 2205 6 = 2205 7 = 2205 8 = 2205 9 = 2206 + 1	Number=179 ² =32041 0 = 3187 + 1 1 = 3186 2 = 3186 3 = 3186 4 = 3186 5 = 3186 6 = 3186 7 = 3186 8 = 3186 9 = 3187 + 1

Starting with a cyclic number and squaring it will also provide similar results. I believe a cyclic number "P" squared and the new number will have P * (P - 1) repeating digits, that this fact has been proven. Take a cyclic number ending with 1 like 61 and the square will be 3721 and it will have 61 * 60 which is 3660 and that is how many repeating digits it will have and each digit will have a perfect 10 percent. Now looking at a cyclic number ending with a 3 like 23 when squared 529 which has 23 * 22 which is 506 and the numbers 1, 2, 4, 5, 7 and 8 each get an extra count. A cyclic number ending with a 7 like 7 squared which is 49 and 7 * 6 is 42 the number of repeating digits yes 3 and 6 get the extra digits. Well 9 like 29 squared are 841 with 812 repeating digits with the 0 a 9 getting the extra digits. By looking through the following examples you can see it looks like this a note example of these numbers also seem to have a pattern it still needs to be proven.

Chi Square=	Number =	1 = 250431 +1	4 = 365766 +1	8 = 2772	Chi Square=	Number =	1 = 186732
2.486283E-05	1223^2= 1495729	2 = 250431 +1	5 = 365766 +1	9 = 2772	3.828114E-05	1087^2= 1181569	2 = 186732
	0 = 149450	3 = 250430	6 = 365765	Chi Square=	0 = 118048	3 = 186733 +1	
Number =	1 = 149451 +1	4 = 250431 +1	7 = 365766 +1	5.771589E-04	Number = 727^2=	4 = 186732	
1033^2= 1067089	2 = 149451 +1	5 = 250431 +1	8 = 365766 +1		528529	5 = 186732	
0 = 106605	3 = 149450	6 = 250430	9 = 365765	Number = 257^2=	0 = 52780	6 = 186733 +1	
1 = 106606 +1	4 = 149451 +1	7 = 250431 +1	Chi Square=	66049	1 = 52780	7 = 186732	
2 = 106606 +1	5 = 149451 +1	8 = 250431 +1	6.562647E-06	0 = 6579	2 = 52780	8 = 186732	
3 = 106605	6 = 149450	9 = 250430		1 = 6579	3 = 52781 +1	9 = 186732	
4 = 106606 +1	7 = 149451 +1	Chi Square=	Number = 7^2= 49	2 = 6579	4 = 52780	Chi Square=	
5 = 106606 +1	8 = 149451 +1	9.585054E-06	0 = 4	3 = 6580 +1	5 = 52780	8.568943E-06	
6 = 106605	9 = 149450		1 = 4	4 = 6579	6 = 52781 +1		
7 = 106606 +1	Chi Square=	Number =	2 = 4	5 = 6579	7 = 52780	Chi Square=	Number =
8 = 106606 +1	1.606143E-05	1663^2= 2765569	3 = 5 +1	6 = 6580 +1	8 = 52780	1.355461E-05	1447^2= 2093809
9 = 106605		0 = 276390	4 = 4	7 = 6579	9 = 52780		0 = 209236
Chi Square=	Number =	1 = 276391 +1	5 = 4	8 = 6579	Chi Square=	Number =	1 = 209236
2.251312E-05	1303^2= 1697809	2 = 276391 +1	6 = 5 +1	9 = 6579	3.031451E-05	1097^2= 1203409	2 = 209236
	0 = 169650	3 = 276390	7 = 4	Chi Square=	0 = 120231	3 = 209237 +1	
Number =	1 = 169651 +1	4 = 276391 +1	8 = 4	2.431907E-04	Number = 857^2=	4 = 209236	
1063^2= 1129969	2 = 169651 +1	5 = 276391 +1	9 = 4		734449	5 = 209236	
0 = 112890	3 = 169650	6 = 276390	Chi Square=	Number = 337^2=	0 = 73359	6 = 209237 +1	
1 = 112891 +1	4 = 169651 +1	7 = 276391 +1	.3809524	113569	1 = 73359	7 = 209236	
2 = 112891 +1	5 = 169651 +1	8 = 276391 +1		0 = 11323	2 = 73359	8 = 209236	
3 = 112890	6 = 169650	9 = 276390	Number = 17^2=	1 = 11323	3 = 73360 +1	9 = 209236	
4 = 112891 +1	7 = 169651 +1	Chi Square=	289	2 = 11323	4 = 73359	Chi Square=	
5 = 112891 +1	8 = 169651 +1	8.684777E-06	0 = 27	3 = 11324 +1	5 = 73359	7.647327E-06	
6 = 112890	9 = 169650		1 = 27	4 = 11323	6 = 73360 +1		
7 = 112891 +1	Chi Square=	Number =	2 = 27	5 = 11323	7 = 73359	Chi Square=	Number =
8 = 112891 +1	1.414903E-05	1783^2= 3179089	3 = 28 +1	6 = 11324 +1	8 = 73359	1.330851E-05	1487^2= 2211169
9 = 112890		0 = 317730	4 = 27	7 = 11323	9 = 73359		0 = 220968
Chi Square=	Number =	1 = 317731 +1	5 = 27	8 = 11323	Chi Square=	Number =	1 = 220968
2.125974E-05	1433^2= 2053489	2 = 317731 +1	6 = 28 +1	9 = 11323	2.181182E-05	1217^2= 1481089	2 = 220968
	0 = 205205	3 = 317730	7 = 27	Chi Square=	0 = 147987	3 = 220969 +1	
Number =	1 = 205206 +1	4 = 317731 +1	8 = 27	1.413028E-04	Number = 887^2=	4 = 220968	
1103^2= 1216609	2 = 205206 +1	5 = 317731 +1	9 = 27		786769	5 = 220968	
0 = 121550	3 = 205205	6 = 317730	Chi Square=	Number = 367^2=	0 = 78588	6 = 220969 +1	
1 = 121551 +1	4 = 205206 +1	7 = 317731 +1	5.882353E-02	134689	1 = 78588	7 = 220968	
2 = 121551 +1	5 = 205206 +1	8 = 317731 +1		0 = 13432	2 = 78588	8 = 220968	
3 = 121550	6 = 205205	9 = 317730	Number = 47^2=	1 = 13432	3 = 78589 +1	9 = 220968	
4 = 121551 +1	7 = 205206 +1	Chi Square=	2209	2 = 13432	4 = 78588	Chi Square=	
5 = 121551 +1	8 = 205206 +1	7.554799E-06	0 = 216	3 = 13433 +1	5 = 78588	7.241303E-06	
6 = 121550	9 = 205205		1 = 216	4 = 13432	6 = 78589 +1		
7 = 121551 +1	Chi Square=	Number =	2 = 216	5 = 13432	7 = 78588	Chi Square=	Number =
8 = 121551 +1	1.169749E-05	1823^2= 3323329	3 = 217 +1	6 = 13433 +1	8 = 78588	1.081241E-05	1567^2= 2455489
9 = 121550		0 = 332150	4 = 216	7 = 13432	9 = 78588		0 = 245392
Chi Square=	Number =	1 = 332151 +1	5 = 216	8 = 13432	Chi Square=	Number =	1 = 245392
1.974506E-05	1543^2= 2380849	2 = 332151 +1	6 = 217 +1	9 = 13432	2.036053E-05	1297^2= 1682209	2 = 245392
	0 = 237930	3 = 332150	7 = 216	Chi Square=	0 = 168091	3 = 245393 +1	
Number =	1 = 237931 +1	4 = 332151 +1	8 = 216	1.191168E-04	Number = 937^2=	4 = 245392	
1153^2= 1329409	2 = 237931 +1	5 = 332151 +1	9 = 216		877969	5 = 245392	
0 = 132825	3 = 237930	6 = 332150	Chi Square=	Number = 577^2=	0 = 87703	6 = 245393 +1	
1 = 132826 +1	4 = 237931 +1	7 = 332151 +1	7.400555E-03	332929	1 = 87703	7 = 245392	
2 = 132826 +1	5 = 237931 +1	8 = 332151 +1		0 = 33235	2 = 87703	8 = 245392	
3 = 132825	6 = 237930	9 = 332150	Number = 97^2=	1 = 33235	3 = 87704 +1	9 = 245392	
4 = 132826 +1	7 = 237931 +1	Chi Square=	9409	2 = 33235	4 = 87703	Chi Square=	
5 = 132826 +1	8 = 237931 +1	7.226814E-06	0 = 931	3 = 33236 +1	5 = 87703	6.520573E-06	
6 = 132825	9 = 237930		1 = 931	4 = 33235	6 = 87704 +1		
7 = 132826 +1	Chi Square=	Number =	2 = 931	5 = 33235	7 = 87703	Chi Square=	Number =
8 = 132826 +1	1.008862E-05	1873^2= 3508129	3 = 932 +1	6 = 33236 +1	8 = 87703	9.519223E-06	1607^2= 2582449
9 = 132825		0 = 350625	4 = 931	7 = 33235	9 = 87703		0 = 258084
Chi Square=	Number =	1 = 350626 +1	5 = 931	8 = 33235	Chi Square=	Number =	1 = 258084
1.807175E-05	1553^2= 2411809	2 = 350626 +1	6 = 932 +1	9 = 33235	1.824446E-05	1327^2= 1760929	2 = 258084
	0 = 241025	3 = 350625	7 = 931	Chi Square=	0 = 175960	3 = 258085 +1	
Number =	1 = 241026 +1	4 = 350626 +1	8 = 931	4.814192E-05	Number = 977^2=	4 = 258084	
1193^2= 1423249	2 = 241026 +1	5 = 350626 +1	9 = 931		954529	5 = 258084	
0 = 142205	3 = 241025	6 = 350625	Chi Square=	Number = 647^2=	0 = 95355	6 = 258085 +1	
1 = 142206 +1	4 = 241026 +1	7 = 350626 +1	1.718213E-03	418609	1 = 95355	7 = 258084	
2 = 142206 +1	5 = 241026 +1	8 = 350626 +1		0 = 41796	2 = 95355	8 = 258084	
3 = 142205	6 = 241025	9 = 350625	Number = 167^2=	1 = 41796	3 = 95356 +1	9 = 258084	
4 = 142206 +1	7 = 241026 +1	Chi Square=	27889	2 = 41796	4 = 95355	Chi Square=	
5 = 142206 +1	8 = 241026 +1	6.846022E-06	0 = 2772	3 = 41797 +1	5 = 95355	6.199905E-06	
6 = 142205	9 = 241025		1 = 2772	4 = 41796	6 = 95356 +1		
7 = 142206 +1	Chi Square=	Number =	2 = 2772	5 = 41796	7 = 95355	Chi Square=	Number =
8 = 142206 +1	9.95907E-06	1913^2= 3659569	3 = 2773 +1	6 = 41797 +1	8 = 95355	9.09352E-06	1697^2= 2879809
9 = 142205		0 = 365765	4 = 2772	7 = 41796	9 = 95355		0 = 287811
Chi Square=	Number =	1 = 365766 +1	5 = 2772	8 = 41796	Chi Square=	Number =	1 = 287811
1.687972E-05	1583^2= 2505889	2 = 365766 +1	6 = 2773 +1	9 = 41796	1.678039E-05	1367^2= 1868689	2 = 287811
	0 = 250430	3 = 365765	7 = 2772		0 = 186732		3 = 287812 +1

4 = 287811	4 = 81	4 = 3186	4 = 15093	4 = 38254	4 = 114169	4 = 204061	4 = 291897
5 = 287811	5 = 81	5 = 3186	5 = 15093	5 = 38254	5 = 114169	5 = 204061	5 = 291897
6 = 287812 +1	6 = 81	6 = 3186	6 = 15093	6 = 38254	6 = 114169	6 = 204061	6 = 291897
7 = 287811	7 = 81	7 = 3186	7 = 15093	7 = 38254	7 = 114169	7 = 204061	7 = 291897
8 = 287811	8 = 81	8 = 3186	8 = 15093	8 = 38254	8 = 114169	8 = 204061	8 = 291897
9 = 287811	9 = 82 +1	9 = 3187 +1	9 = 15094 +1	9 = 38255 +1	9 = 114170 +1	9 = 204062 +1	9 = 291898 +1
Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=
5.564629E-06	1.970443E-02	5.021656E-04	1.06008E-04	4.182563E-05	1.401514E-05	7.841263E-06	5.486735E-06

Number =	Number = 59^2=	Number = 229^2=	Number = 419^2=	Number = 659^2=	Number =	Number =	Number =
1777^2= 3157729	3481	52441	175561	434281	1109^2= 1229881	1549^2= 2399401	1789^2= 3200521
0 = 315595	0 = 343 +1	0 = 5222 +1	0 = 17515 +1	0 = 43363 +1	0 = 122878 +1	0 = 239786 +1	0 = 319874 +1
1 = 315595	1 = 342	1 = 5221	1 = 17514	1 = 43362	1 = 122877	1 = 239785	1 = 319873
2 = 315595	2 = 342	2 = 5221	2 = 17514	2 = 43362	2 = 122877	2 = 239785	2 = 319873
3 = 315596 +1	3 = 342	3 = 5221	3 = 17514	3 = 43362	3 = 122877	3 = 239785	3 = 319873
4 = 315595	4 = 342	4 = 5221	4 = 17514	4 = 43362	4 = 122877	4 = 239785	4 = 319873
5 = 315595	5 = 342	5 = 5221	5 = 17514	5 = 43362	5 = 122877	5 = 239785	5 = 319873
6 = 315596 +1	6 = 342	6 = 5221	6 = 17514	6 = 43362	6 = 122877	6 = 239785	6 = 319873
7 = 315595	7 = 342	7 = 5221	7 = 17514	7 = 43362	7 = 122877	7 = 239785	7 = 319873
8 = 315595	8 = 342	8 = 5221	8 = 17514	8 = 43362	8 = 122877	8 = 239785	8 = 319873
9 = 315595	9 = 343 +1	9 = 5222 +1	9 = 17515 +1	9 = 43363 +1	9 = 122878 +1	9 = 239786 +1	9 = 319874 +1
Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=
5.074737E-06	4.675629E-03	3.06443E-04	9.13548E-05	3.689864E-05	1.302192E-05	6.673046E-06	5.006867E-06

Number =	Number = 109^2=	Number = 269^2=	Number = 499^2=	Number = 709^2=	Number =	Number =	Number =
1847^2= 3411409	11881	72361	249001	502681	1229^2= 1510441	1579^2= 2493241	1949^2= 3798601
0 = 340956	0 = 1178 +1	0 = 7210 +1	0 = 24851 +1	0 = 50198 +1	0 = 150922 +1	0 = 249167 +1	0 = 379666 +1
1 = 340956	1 = 1177	1 = 7209	1 = 24850	1 = 50197	1 = 150921	1 = 249166	1 = 379665
2 = 340956	2 = 1177	2 = 7209	2 = 24850	2 = 50197	2 = 150921	2 = 249166	2 = 379665
3 = 340957 +1	3 = 1177	3 = 7209	3 = 24850	3 = 50197	3 = 150921	3 = 249166	3 = 379665
4 = 340956	4 = 1177	4 = 7209	4 = 24850	4 = 50197	4 = 150921	4 = 249166	4 = 379665
5 = 340956	5 = 1177	5 = 7209	5 = 24850	5 = 50197	5 = 150921	5 = 249166	5 = 379665
6 = 340957 +1	6 = 1177	6 = 7209	6 = 24850	6 = 50197	6 = 150921	6 = 249166	6 = 379665
7 = 340956	7 = 1177	7 = 7209	7 = 24850	7 = 50197	7 = 150921	7 = 249166	7 = 379665
8 = 340956	8 = 1177	8 = 7209	8 = 24850	8 = 50197	8 = 150921	8 = 249166	8 = 379665
9 = 340956	9 = 1178 +1	9 = 7210 +1	9 = 24851 +1	9 = 50198 +1	9 = 150922 +1	9 = 249167 +1	9 = 379666 +1
Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=
4.697268E-06	1.359157E-03	2.219387E-04	6.438605E-05	3.187441E-05	1.060221E-05	6.421808E-06	4.218355E-06

Number = 19^2=	Number = 149^2=	Number = 379^2=	Number = 509^2=	Number =	Number =	Number =	Number =
361	22201	143641	259081	1019^2= 1038361	1259^2= 1585081	1619^2= 2621161	1979^2= 3916441
0 = 35 +1	0 = 2206 +1	0 = 14327 +1	0 = 25858 +1	0 = 103735 +1	0 = 158383 +1	0 = 261955 +1	0 = 391447 +1
1 = 34	1 = 2205	1 = 14326	1 = 25857	1 = 103734	1 = 158382	1 = 261954	1 = 391446
2 = 34	2 = 2205	2 = 14326	2 = 25857	2 = 103734	2 = 158382	2 = 261954	2 = 391446
3 = 34	3 = 2205	3 = 14326	3 = 25857	3 = 103734	3 = 158382	3 = 261954	3 = 391446
4 = 34	4 = 2205	4 = 14326	4 = 25857	4 = 103734	4 = 158382	4 = 261954	4 = 391446
5 = 34	5 = 2205	5 = 14326	5 = 25857	5 = 103734	5 = 158382	5 = 261954	5 = 391446
6 = 34	6 = 2205	6 = 14326	6 = 25857	6 = 103734	6 = 158382	6 = 261954	6 = 391446
7 = 34	7 = 2205	7 = 14326	7 = 25857	7 = 103734	7 = 158382	7 = 261954	7 = 391446
8 = 34	8 = 2205	8 = 14326	8 = 25857	8 = 103734	8 = 158382	8 = 261954	8 = 391446
9 = 35 +1	9 = 2206 +1	9 = 14327 +1	9 = 25858 +1	9 = 103735 +1	9 = 158383 +1	9 = 261955 +1	9 = 391447 +1
Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=	Chi Square=
4.678363E-02	7.255578E-04	1.116835E-04	6.187856E-05	1.542498E-05	1.010276E-05	6.108311E-06	4.091399E-06

Number = 29^2=	Number = 179^2=	Number = 389^2=	Number = 619^2=	Number =	Number =	Number =
841	32041	151321	383161	1069^2= 1142761	1429^2= 2042041	1709^2= 2920681
0 = 82 +1	0 = 3187 +1	0 = 3894 +1	0 = 38255 +1	0 = 114170 +1	0 = 204062 +1	0 = 291898 +1
1 = 81	1 = 3186	1 = 3893	1 = 38254	1 = 114169	1 = 204061	1 = 291897
2 = 81	2 = 3186	2 = 3893	2 = 38254	2 = 114169	2 = 204061	2 = 291897
3 = 81	3 = 3186	3 = 3893	3 = 38254	3 = 114169	3 = 204061	3 = 291897

The rest of the prime numbers produce no real pattern but as expected although some numbers look very interesting. I have added this list for your viewing how it does not add to the general interest.

Number = 3^2= 9	Number = 5^2= 25	Number = 13^2=		Chi Square=	9 = 10	8 = 20	7 = 93 +5
0 = 0	0 = 1 +1	169	Number = 31^2=	.1397849	Chi Square=	9 = 21 +1	8 = 88
1 = 1 +1	1 = 0	0 = 8 +1	961		.2612612	Chi Square=	9 = 90 +2
2 = 0	2 = 0	1 = 7	0 = 47 +2	Number = 37^2=		.1219512	Chi Square=
3 = 0	3 = 0	2 = 8 +1	1 = 47 +2	1369	Number = 41^2=		.4440752
4 = 0	4 = 1 +1	3 = 8 +1	2 = 48 +3	0 = 11 +1	1681	Number = 43^2=	
5 = 0	5 = 0	4 = 8 +1	3 = 46 +1	1 = 12 +2	0 = 21 +1	1849	Number = 53^2=
6 = 0	6 = 0	5 = 8 +1	4 = 46 +1	2 = 11 +1	1 = 20	0 = 90 +2	2809
7 = 0	7 = 0	6 = 8 +1	5 = 47 +2	3 = 11 +1	2 = 21 +1	1 = 93 +5	0 = 69 +1
8 = 0	8 = 0	7 = 8 +1	6 = 47 +2	4 = 11 +1	3 = 21 +1	2 = 88	1 = 68
9 = 0	9 = 0	8 = 7	7 = 45	5 = 11 +1	4 = 21 +1	3 = 89 +1	2 = 70 +2
Chi Square=	Chi Square= 8	9 = 8 +1	8 = 46 +1	6 = 11 +1	5 = 20	4 = 93 +5	3 = 68
8.999999		Chi Square=	9 = 46 +1	7 = 11 +1	6 = 20	5 = 88	4 = 69 +1
		.2051282		8 = 12 +2	7 = 20	6 = 91 +3	5 = 68

6 = 70 +2	9 = 340 +3	Number = 127^2=	0 = 1320 +4	3 = 634 +3	6 = 136 +1	9 = 4697 +7	Number = 353^2=
7 = 69 +1	Chi Square=	16129	1 = 1325 +9	4 = 632 +1	7 = 135	Chi Square=	124609
8 = 68	.2236262		2 = 1316	5 = 632 +1	8 = 135	6.533819E-02	
9 = 70 +2	Number = 89^2=	0 = 532 +2	3 = 1317 +1	6 = 634 +3	9 = 136 +1	Number = 311^2=	0 = 1133 +10
Chi Square=	7921	1 = 535 +5	4 = 1325 +9	7 = 632 +1	Chi Square=	96721	1 = 1123
.1001451	0 = 391	2 = 535 +5	5 = 1316	8 = 631	3.321033E-02	0 = 4829 +17	2 = 1132 +9
Number = 67^2=	1 = 391	3 = 530	6 = 1323 +7	9 = 636 +5	Number = 277^2=	2 = 4822 +10	3 = 1135 +12
4489	2 = 391	4 = 535 +5	7 = 1325 +9	Chi Square=	76729	3 = 4820 +8	4 = 1125 +2
0 = 221 +3	3 = 394 +3	5 = 535 +5	8 = 1316	5.055292E-02	0 = 1908 +2	4 = 4820 +8	5 = 1125 +2
1 = 224 +6	4 = 391	6 = 530	9 = 1320 +4	Number = 227^2=	1 = 1913 +7	5 = 4821 +9	6 = 1135 +12
2 = 218	5 = 391	7 = 535 +5	Chi Square=	51529	2 = 1914 +8	6 = 4821 +9	7 = 1132 +9
3 = 220 +2	6 = 394 +3	8 = 535 +5	.1061122	0 = 2565 +6	3 = 1910 +4	7 = 4821 +9	8 = 1123
4 = 224 +6	7 = 391	9 = 532 +2	Number = 173^2=	1 = 2571 +12	4 = 1906	8 = 4819 +7	9 = 1133 +10
5 = 218	8 = 391	Chi Square=	29929	2 = 2559	5 = 1917 +11	9 = 4820 +8	Chi Square=
6 = 223 +5	9 = 391	7.949006E-02	0 = 743 +2	3 = 2567 +8	6 = 1911 +5	9 = 4812	.1968839
7 = 224 +6	Chi Square=	Number = 137^2=	1 = 741	4 = 2571 +12	7 = 1908 +2	Chi Square=	Number = 359^2=
8 = 218	3.677221E-02	18769	2 = 748 +7	5 = 2559	8 = 1914 +8	3.122083E-02	128881
9 = 221 +3	Number = 97^2=	0 = 108	3 = 743 +2	6 = 2564 +5	9 = 1912 +6	Number = 317^2=	0 = 6434 +15
Chi Square=	9409	1 = 112 +4	4 = 742 +1	7 = 2571 +12	Chi Square=	100489	1 = 6427 +8
.2663953	0 = 931	2 = 110 +2	5 = 745 +4	8 = 2559	5.341913E-02	0 = 2501	2 = 6429 +10
Number = 71^2=	1 = 931	3 = 108	6 = 746 +5	9 = 2565 +6	Number = 281^2=	1 = 2508 +7	3 = 6425 +6
5041	2 = 931	4 = 110 +2	7 = 741	Chi Square=	78961	2 = 2505 +4	4 = 6425 +6
0 = 251 +5	3 = 932 +1	5 = 110 +2	8 = 743 +2	8.611751E-02	0 = 787 +1	3 = 2505 +4	5 = 6427 +8
1 = 249 +3	4 = 931	6 = 108	9 = 747 +6	Number = 239^2=	1 = 789 +3	4 = 2501	6 = 6427 +8
2 = 250 +4	5 = 931	7 = 110 +2	Chi Square=	57121	2 = 786	5 = 2510 +9	7 = 6423 +4
3 = 248 +2	6 = 932 +1	8 = 112 +4	7.380024E-02	0 = 168 +2	3 = 786	6 = 2502 +1	8 = 6425 +6
4 = 248 +2	7 = 931	9 = 108	Number = 191^2=	1 = 167 +1	4 = 786	7 = 2501	9 = 6419
5 = 249 +3	8 = 931	Chi Square=	36481	2 = 168 +2	5 = 786	8 = 2507 +6	Chi Square=
6 = 249 +3	9 = 931	2.043795	0 = 1820 +11	3 = 168 +2	6 = 786	9 = 2503 +2	2.130374E-02
7 = 247 +1	Chi Square=	Number = 139^2=	1 = 1815 +6	4 = 168 +2	7 = 786	Chi Square=	Number = 373^2=
8 = 248 +2	1.718213E-03	19321	2 = 1816 +7	5 = 166	8 = 789 +3	3.757536E-02	139129
9 = 246	Number = 101^2=	0 = 640 +3	3 = 1814 +5	6 = 168 +2	9 = 787 +1	Number = 331^2=	0 = 6941 +9
Chi Square=	10201	1 = 641 +4	4 = 1814 +5	7 = 168 +2	Chi Square=	109561	1 = 6932
7.444668E-02	0 = 42 +2	2 = 640 +3	5 = 1815 +6	8 = 166	1.728521E-02	0 = 3640 +2	2 = 6939 +7
Number = 73^2=	1 = 40	3 = 639 +2	6 = 1815 +6	9 = 166	Number = 283^2=	1 = 3638	3 = 6940 +8
5329	2 = 40	4 = 637	7 = 1813 +4	Chi Square=	80089	2 = 3641 +3	4 = 6937 +5
0 = 58	3 = 40	5 = 637	8 = 1814 +5	4.841602E-02	0 = 3990 +6	3 = 3643 +5	5 = 6937 +5
1 = 58	4 = 40	6 = 639 +2	9 = 1809	Number = 241^2=	1 = 3997 +13	4 = 3643 +5	6 = 6940 +8
2 = 59 +1	5 = 40	7 = 640 +3	Chi Square=	58081	2 = 3984	5 = 3643 +5	7 = 6939 +7
3 = 59 +1	6 = 40	8 = 641 +4	3.664922E-02	0 = 725 +4	3 = 3988 +4	6 = 3643 +5	8 = 6932
4 = 58	7 = 40	9 = 640 +3	Number = 197^2=	1 = 721	4 = 3997 +13	7 = 3641 +3	9 = 6941 +9
5 = 58	8 = 40	Chi Square=	38809	2 = 722 +1	5 = 3984	8 = 3638	Chi Square=
6 = 59 +1	9 = 42 +2	2.877698E-02	0 = 1928	3 = 724 +3	6 = 3992 +8	9 = 3640 +2	1.464441E-02
7 = 59 +1	Chi Square=	Number = 151^2=	1 = 1934 +6	4 = 723 +2	7 = 3997 +13	Chi Square=	Number = 379^2=
8 = 58	.1584159	22801	2 = 1929 +1	5 = 723 +2	8 = 3984	9.887394E-03	143641
9 = 58	Number = 103^2=	0 = 1133 +5	3 = 1930 +2	6 = 724 +3	9 = 3990 +6	Number = 347^2=	0 = 14327 +1
Chi Square=	10609	1 = 1134 +6	4 = 1932 +4	7 = 722 +1	Chi Square=	120409	1 = 14326
4.109589E-02	0 = 352 +6	2 = 1137 +9	5 = 1932 +4	8 = 721	6.568429E-02	0 = 6003 +7	2 = 14326
Number = 79^2=	1 = 346	3 = 1131 +3	6 = 1930 +2	9 = 725 +4	Number = 293^2=	1 = 6010 +14	3 = 14326
6241	2 = 351 +5	4 = 1131 +3	7 = 1929 +1	Chi Square=	85849	2 = 5996	4 = 14326
0 = 104 +3	3 = 352 +6	5 = 1134 +6	8 = 1934 +6	2.766252E-02	0 = 4281 +8	3 = 6004 +8	5 = 14326
1 = 101	4 = 350 +4	6 = 1134 +6	9 = 1928	Number = 251^2=	1 = 4273	4 = 6010 +14	6 = 14326
2 = 103 +2	5 = 350 +4	7 = 1128	Chi Square=	63001	2 = 4280 +7	5 = 5996	7 = 14326
3 = 103 +2	6 = 352 +6	8 = 1131 +3	2.403398E-02	0 = 1259 +5	3 = 4279 +6	6 = 6003 +7	8 = 14326
4 = 103 +2	7 = 351 +5	9 = 1132 +4	Number = 199^2=	1 = 1254	4 = 4276 +3	7 = 6010 +14	9 = 14327 +1
5 = 103 +2	8 = 346	Chi Square=	39601	2 = 1254	5 = 4276 +3	8 = 5996	Chi Square=
6 = 104 +3	9 = 352 +6	4.812362E-02	0 = 1973 +6	3 = 1254	6 = 4279 +6	9 = 6003 +7	1.116835E-04
7 = 101	Chi Square=	Number = 157^2=	1 = 1971 +4	4 = 1254	7 = 4280 +7	Chi Square=	Number = 397^2=
8 = 102 +1	.1416333	24649	2 = 1973 +6	5 = 1254	8 = 4273	4.912462E-02	157609
9 = 103 +2	Number = 107^2=	0 = 1222	3 = 1969 +2	6 = 1254	9 = 4281 +8	Number = 349^2=	0 = 3927 +1
Chi Square=	11449	1 = 1229 +7	4 = 1969 +2	7 = 1254	Chi Square=	121801	1 = 3936 +10
9.834471E-02	0 = 567 +4	2 = 1224 +2	5 = 1971 +4	8 = 1254	2.001029E-02	0 = 4050 +9	2 = 3931 +5
Number = 83^2=	1 = 571 +8	3 = 1223 +1	6 = 1971 +4	9 = 1259 +5	Number = 307^2=	1 = 4041	3 = 3926
6889	2 = 563	4 = 1225 +3	7 = 1967	Chi Square=	94249	2 = 4049 +8	4 = 3935 +9
0 = 340 +3	3 = 568 +5	5 = 1225 +3	8 = 1969 +2	3.187251E-02	0 = 4697 +7	3 = 4049 +8	5 = 3926
1 = 344 +7	4 = 571 +8	6 = 1223 +1	9 = 1968 +1	Number = 271^2=	1 = 4704 +14	4 = 4053 +12	6 = 3932 +6
2 = 337	5 = 563	7 = 1224 +2	Chi Square=	73441	2 = 4690	5 = 4053 +12	7 = 3929 +3
3 = 341 +4	6 = 567 +4	8 = 1229 +7	1.873001E-02	0 = 137 +2	3 = 4695 +5	6 = 4049 +8	8 = 3931 +5
4 = 344 +7	7 = 571 +8	9 = 1222	Number = 211^2=	1 = 135	4 = 4704 +14	7 = 4049 +8	9 = 3930 +4
5 = 337	8 = 563	Chi Square=	44521	2 = 135	5 = 4690	8 = 4041	Chi Square=
6 = 339 +2	9 = 567 +4	4.768904E-02	0 = 636 +5	3 = 136 +1	6 = 4700 +10	9 = 4050 +9	2.750426E-02
7 = 344 +7	Chi Square=	Number = 163^2=	1 = 631	4 = 135	7 = 4704 +14	Chi Square=	Number = 401^2=
8 = 337	.1708693	26569	2 = 632 +1	5 = 135	8 = 4690	3.912657E-02	160801

0 = 8022 +7	3 = 9791 +7	6 = 11449 +11	9 = 15820 +9	Number = 613^2=	0 = 21293 +13	3 = 15886	6 = 9390 +8
1 = 8021 +6	4 = 9797 +13	7 = 11445 +7	Chi Square=	375769	1 = 21280	4 = 15894 +8	7 = 9387 +5
2 = 8021 +6	5 = 9784	8 = 11447 +9	3.628882E-02	0 = 3129 +8	2 = 21291 +11	5 = 15894 +8	8 = 9382
3 = 8015	6 = 9789 +5	9 = 11438	Number = 569^2=	1 = 3127 +6	3 = 21290 +10	6 = 15886	9 = 9387 +5
4 = 8021 +6	7 = 9797 +13	Chi Square=	323761	2 = 3122 +1	4 = 21285 +5	7 = 15894 +8	Chi Square=
5 = 8021 +6	8 = 9784	2.139219E-02	0 = 16158	3 = 3131 +10	5 = 21285 +5	8 = 15894 +8	1.006658E-02
6 = 8015	9 = 9790 +6	Number = 521^2=	1 = 16158	4 = 3126 +5	6 = 21290 +10	9 = 15897 +11	Number = 757^2=
7 = 8021 +6	Chi Square=	271441	2 = 16158	5 = 3122 +1	7 = 21291 +11	Chi Square=	573049
8 = 8021 +6	2.615855E-02	0 = 2711 +5	3 = 16166 +8	6 = 3130 +9	8 = 21280	8.557227E-03	0 = 2046 +8
9 = 8022 +7	Number = 449^2=	1 = 2711 +5	4 = 16158	7 = 3130 +9	9 = 21293 +13	Number = 719^2=	1 = 2048 +10
Chi Square=	201601	2 = 2706	5 = 16158	8 = 3121	Chi Square=	516961	2 = 2042 +4
7.98005E-03	0 = 1436 +3	3 = 2708 +2	6 = 16166 +8	9 = 3125 +4	1.040972E-02	0 = 25826 +27	3 = 2041 +3
Number = 409^2=	1 = 1437 +4	4 = 2710 +4	7 = 16158	Chi Square=	Number = 661^2=	1 = 25813 +14	4 = 2046 +8
167281	2 = 1433	5 = 2710 +4	8 = 16158	3.969548E-02	436921	2 = 25815 +16	5 = 2047 +9
0 = 8340	3 = 1440 +7	6 = 2708 +2	9 = 16158	Number = 617^2=	0 = 14544 +8	3 = 25811 +12	6 = 2038
1 = 8345 +5	4 = 1438 +5	7 = 2706	Chi Square=	380689	1 = 14542 +6	4 = 25811 +12	7 = 2045 +7
2 = 8345 +5	5 = 1438 +5	8 = 2711 +5	6.336791E-03	0 = 5434 +12	2 = 14549 +9	5 = 25813 +14	8 = 2047 +9
3 = 8343 +3	6 = 1440 +7	9 = 2711 +5	Number = 587^2=	1 = 5422	3 = 14543 +7	6 = 25813 +14	9 = 2039 +1
4 = 8345 +5	7 = 1433	Chi Square=	344569	2 = 5430 +8	4 = 14536	7 = 25809 +10	Chi Square=
5 = 8345 +5	8 = 1437 +4	1.387864E-02	0 = 17199 +8	3 = 5437 +15	5 = 14536	8 = 25811 +12	5.719458E-02
6 = 8343 +3	9 = 1436 +3	Number = 523^2=	1 = 17207 +16	4 = 5425 +3	6 = 14543 +7	9 = 25799	Number = 761^2=
7 = 8345 +5	Chi Square=	273529	2 = 17191	5 = 5425 +3	7 = 14545 +9	Chi Square=	579121
8 = 8345 +5	3.730512E-02	0 = 13650 +9	3 = 17202 +11	6 = 5437 +15	8 = 14542 +6	1.506658E-02	0 = 28920 +7
9 = 8340	Number = 457^2=	1 = 13660 +19	4 = 17207 +16	7 = 5430 +8	9 = 14544 +8	Number = 733^2=	1 = 28919 +6
Chi Square=	208849	2 = 13641	5 = 17191	8 = 5422	Chi Square=	537289	2 = 28919 +6
4.60233E-03	0 = 6941 +6	3 = 13648 +7	6 = 17197 +6	9 = 5434 +12	6.876633E-03	0 = 4470 +1	3 = 28913
Number = 421^2=	1 = 6952 +17	4 = 13660 +19	7 = 17207 +16	Chi Square=	Number = 673^2=	1 = 4471 +2	4 = 28919 +6
177241	2 = 6952 +17	5 = 13641	8 = 17191	5.643142E-02	452929	2 = 4472 +3	5 = 28919 +6
0 = 5893 +1	3 = 6935	6 = 13652 +11	9 = 17199 +8	Number = 631^2=	0 = 15082 +17	3 = 4470 +1	6 = 28913
1 = 5900 +8	4 = 6952 +17	7 = 13660 +19	Chi Square=	398161	1 = 15065	4 = 4472 +3	7 = 28919 +6
2 = 5892	5 = 6952 +17	8 = 13641	2.307679E-02	0 = 19878 +9	2 = 15080 +15	5 = 4470 +1	8 = 28919 +6
3 = 5893 +1	6 = 6935	9 = 13650 +9	Number = 599^2=	1 = 19879 +10	3 = 15079 +14	6 = 4474 +5	9 = 28920 +7
4 = 5892	7 = 6952 +17	Chi Square=	358801	2 = 19884 +15	4 = 15070 +5	7 = 4469	Chi Square=
5 = 5892	8 = 6952 +17	4.029948E-02	0 = 17921 +21	3 = 19874 +5	5 = 15070 +5	8 = 4473 +4	2.213154E-03
6 = 5893 +1	9 = 6941 +6	Number = 547^2=	1 = 17911 +11	4 = 19874 +5	6 = 15079 +14	9 = 4472 +3	Number = 769^2=
7 = 5892	Chi Square=	299209	2 = 17913 +13	5 = 19879 +10	7 = 15080 +15	Chi Square=	591361
8 = 5900 +8	7.290107E-02	0 = 4976 +7	3 = 17909 +9	6 = 19879 +10	8 = 15065	4.942634E-03	0 = 14762
9 = 5893 +1	Number = 463^2=	1 = 4977 +8	4 = 17909 +9	7 = 19869	9 = 15082 +17	Number = 739^2=	1 = 14766 +4
Chi Square=	214369	2 = 4980 +11	5 = 17911 +11	8 = 19874 +5	Chi Square=	546121	2 = 14765 +3
1.560909E-02	0 = 7135 +11	3 = 4975 +6	6 = 17911 +11	9 = 19875 +6	2.849714E-02	0 = 18179 +1	3 = 14765 +3
Number = 431^2=	1 = 7124	4 = 4978 +9	7 = 17907 +7	Chi Square=	Number = 677^2=	1 = 18180 +2	4 = 14766 +4
185761	2 = 7135 +11	5 = 4978 +9	8 = 17909 +9	7.772998E-03	458329	2 = 18180 +2	5 = 14766 +4
0 = 9274 +15	3 = 7129 +5	6 = 4982 +13	9 = 17900	Number = 641^2=	0 = 22877	3 = 18178	6 = 14765 +3
1 = 9268 +9	4 = 7128 +4	7 = 4978 +9	Chi Square=	410881	1 = 22891 +14	4 = 18180 +2	7 = 14765 +3
2 = 9271 +12	5 = 7128 +4	8 = 4969	1.367385E-02	0 = 2055 +6	2 = 22880 +3	5 = 18180 +2	8 = 14766 +4
3 = 9265 +6	6 = 7129 +5	9 = 4984 +15	Number = 601^2=	1 = 2049	3 = 22880 +3	6 = 18178	9 = 14762
4 = 9265 +6	7 = 7135 +11	Chi Square=	361201	2 = 2050 +1	4 = 22885 +8	7 = 18180 +2	Chi Square=
5 = 9268 +9	8 = 7124	3.015449E-02	0 = 18035 +7	3 = 2051 +2	5 = 22885 +8	8 = 18180 +2	1.462939E-03
6 = 9268 +9	9 = 7135 +11	Number = 557^2=	1 = 18028	4 = 2051 +2	6 = 22880 +3	9 = 18179 +1	Number = 773^2=
7 = 9262 +3	Chi Square=	310249	2 = 18028	5 = 2051 +2	7 = 22880 +3	Chi Square=	597529
8 = 9265 +6	2.546913E-02	0 = 15481	3 = 18031 +3	6 = 2051 +2	8 = 22891 +14	3.520469E-04	0 = 14919 +9
9 = 9259	Number = 467^2=	1 = 15489 +8	4 = 18028	7 = 2050 +1	9 = 22877	Number = 743^2=	1 = 14915 +5
Chi Square=	218089	2 = 15482 +1	5 = 18028	8 = 2049	Chi Square=	552049	2 = 14925 +15
1.796795E-02	0 = 10881 +7	3 = 15484 +3	6 = 18031 +3	9 = 2055 +6	.0105932	0 = 55130	3 = 14919 +9
Number = 439^2=	1 = 10888 +14	4 = 15487 +6	7 = 18028	Chi Square=	Number = 683^2=	1 = 55131 +1	4 = 14910
192721	2 = 10874	5 = 15487 +6	8 = 18028	2.028081E-02	466489	2 = 55131 +1	5 = 14924 +14
0 = 9618 +10	3 = 10885 +11	6 = 15484 +3	9 = 18035 +7	Number = 643^2=	0 = 23290 +8	3 = 55130	6 = 14921 +11
1 = 9616 +8	4 = 10888 +14	7 = 15482 +1	Chi Square=	413449	1 = 23299 +17	4 = 55131 +1	7 = 14917 +7
2 = 9620 +12	5 = 10874	8 = 15489 +8	4.215197E-03	0 = 6881 +12	2 = 23282	5 = 55131 +1	8 = 14914 +4
3 = 9612 +4	6 = 10878 +4	9 = 15481	Number = 607^2=	1 = 6887 +18	3 = 23289 +7	6 = 55130	9 = 14925 +15
4 = 9612 +4	7 = 10888 +14	Chi Square=	368449	2 = 6869	4 = 23299 +17	7 = 55131 +1	Chi Square=
5 = 9616 +8	8 = 10874	5.838058E-03	0 = 12266 +14	3 = 6881 +12	5 = 23282	8 = 55131 +1	1.520889E-02
6 = 9616 +8	9 = 10881 +7	Number = 563^2=	1 = 12252	4 = 6887 +18	6 = 23291 +9	9 = 55130	Number = 787^2=
7 = 9608	Chi Square=	316969	2 = 12268 +16	5 = 6869	7 = 23299 +17	Chi Square=	619369
8 = 9612 +4	.0293077	0 = 15820 +9	3 = 12261 +9	6 = 6890 +21	8 = 23282	4.353343E-05	0 = 30929 +12
9 = 9611 +3	Number = 479^2=	1 = 15830 +19	4 = 12260 +8	7 = 6887 +18	9 = 23290 +8	Number = 751^2=	1 = 30941 +24
Chi Square=	229441	2 = 15811	5 = 12260 +8	8 = 6869	Chi Square=	564001	2 = 30917
1.257528E-02	0 = 11459 +21	3 = 15824 +13	6 = 12261 +9	9 = 6881 +12	1.872453E-02	0 = 9390 +8	3 = 30925 +8
Number = 443^2=	1 = 11449 +11	4 = 15830 +19	7 = 12268 +16	Chi Square=	Number = 691^2=	1 = 9384 +2	4 = 30941 +24
196249	2 = 11451 +13	5 = 15811	8 = 12252	.089083	477481	2 = 9388 +6	5 = 30917
0 = 9790 +6	3 = 11447 +9	6 = 15816 +5	9 = 12266 +14	Number = 653^2=	0 = 15897 +11	3 = 9385 +3	6 = 30934 +17
1 = 9797 +13	4 = 11447 +9	7 = 15830 +19	Chi Square=	426409	1 = 15894 +8	4 = 9389 +7	7 = 30941 +24
2 = 9784	5 = 11449 +11	8 = 15811	2.531522E-02		2 = 15894 +8	5 = 9393 +11	8 = 30917

9 = 30929 +12	0 = 34155 +11	6 = 35155 +15		3 = 38934 +4	9 = 41438	0 = 44793 +9	6 = 31135 +6
Chi Square=	1 = 34166 +22	7 = 35151 +11	Number = 877^2=	4 = 38951 +21	Chi Square=	1 = 44802 +18	7 = 31133 +4
2.925724E-02	2 = 34144	8 = 35153 +13	769129	5 = 38930	8.841871E-03	2 = 44784	8 = 31152 +23
	3 = 34155 +11	9 = 35140	0 = 38407	6 = 38946 +16		3 = 44792 +8	9 = 31129
Number = 797^2=	4 = 34166 +22	Chi Square=	1 = 38422 +15	7 = 38951 +21	Number = 919^2=	4 = 44802 +18	Chi Square=
635209	5 = 34144	1.265571E-02	2 = 38411 +4	8 = 38930	844561	5 = 44784	1.986036E-02
0 = 15861 +10	6 = 34156 +12		3 = 38409 +2	9 = 38940 +10	0 = 42186 +13	6 = 44795 +11	
1 = 15867 +16	7 = 34166 +22	Number = 853^2=	4 = 38414 +7	Chi Square=	1 = 42185 +12	7 = 44802 +18	Number = 991^2=
2 = 15851	8 = 34144	727609	5 = 38414 +7	1.885193E-02	2 = 42191 +18	8 = 44784	982081
3 = 15863 +12	9 = 34155 +11	0 = 18174 +11	6 = 38409 +2		3 = 42179 +6	9 = 44793 +9	0 = 49056 +12
4 = 15861 +10	Chi Square=	1 = 18163	7 = 38411 +4	Number = 907^2=	4 = 42179 +6	Chi Square=	1 = 49058 +14
5 = 15863 +12	2.128233E-02	2 = 18166 +3	8 = 38422 +15	822649	5 = 42185 +12	1.095928E-02	2 = 49065 +21
6 = 15854 +3		3 = 18176 +13	9 = 38407	0 = 13699 +13	6 = 42185 +12		3 = 49051 +7
7 = 15866 +15	Number = 829^2=	4 = 18166 +3	Chi Square=	1 = 13702 +16	7 = 42173	Number = 953^2=	4 = 49051 +7
8 = 15865 +14	687241	5 = 18172 +9	7.14349E-03	2 = 13686	8 = 42179 +6	908209	5 = 49058 +14
9 = 15852 +1	0 = 22879 +4	6 = 18166 +3		3 = 13700 +14	9 = 42179 +6	0 = 90725	6 = 49058 +14
Chi Square=	1 = 22875	7 = 18172 +9	Number = 881^2=	4 = 13699 +13	Chi Square=	1 = 90726 +1	7 = 49044
1.955197E-02	2 = 22880 +5	8 = 18166 +3	776161	5 = 13691 +5	5.710953E-03	2 = 90726 +1	8 = 49051 +7
	3 = 22884 +9	9 = 18168 +5	0 = 38769 +10	6 = 13698 +12		3 = 90725	9 = 49053 +9
Number = 809^2=	4 = 22884 +9	Chi Square=	1 = 38764 +5	7 = 13701 +15	Number = 929^2=	4 = 90726 +1	Chi Square=
654481	5 = 22884 +9	9.075947E-03	2 = 38764 +5	8 = 13692 +6	863041	5 = 90726 +1	6.085068E-03
0 = 16339	6 = 22884 +9		3 = 38759	9 = 13689 +3	0 = 43102	6 = 90725	
1 = 16346 +7	7 = 22880 +5	Number = 859^2=	4 = 38764 +5	Chi Square=	1 = 43105 +3	7 = 90726 +1	Number = 997^2=
2 = 16343 +4	8 = 22875	737881	5 = 38764 +5	.0210358	2 = 43105 +3	8 = 90726 +1	994009
3 = 16341 +2	9 = 22879 +4	0 = 2234 +2	6 = 38759		3 = 43111 +9	9 = 90725	0 = 16544 +4
4 = 16340 +1	Chi Square=	1 = 2232	7 = 38764 +5	Number = 911^2=	4 = 43105 +3	Chi Square=	1 = 16561 +21
5 = 16340 +1	4.999912E-03	2 = 2236 +4	8 = 38764 +5	829921	5 = 43105 +3	2.645366E-05	2 = 16552 +12
6 = 16341 +2		3 = 2233 +1	9 = 38769 +10	0 = 41463 +25	6 = 43111 +9		3 = 16540
7 = 16343 +4	Number = 839^2=	4 = 2232	Chi Square=	1 = 41452 +14	7 = 43105 +3	Number = 967^2=	4 = 16554 +14
8 = 16346 +7	703921	5 = 2232	2.579713E-03	2 = 41455 +17	8 = 43105 +3	935089	5 = 16554 +14
9 = 16339	0 = 35169 +29	6 = 2233 +1		3 = 41449 +11	9 = 43102	0 = 31129	6 = 16540
Chi Square=	1 = 35155 +15	7 = 2236 +4	Number = 883^2=	4 = 41449 +11	Chi Square=	1 = 31152 +23	7 = 16552 +12
3.769474E-03	2 = 35157 +17	8 = 2232	779689	5 = 41452 +14	2.00438E-03	2 = 31133 +4	8 = 16561 +21
	3 = 35153 +13	9 = 2234 +2	0 = 38940 +10	6 = 41452 +14		3 = 31135 +6	9 = 16544 +4
Number = 827^2=	4 = 35153 +13	Chi Square=	1 = 38951 +21	7 = 41446 +8	Number = 947^2=	4 = 31138 +9	Chi Square=
683929	5 = 35155 +15	1.002955E-02	2 = 38930	8 = 41449 +11	896809	5 = 31138 +9	3.344974E-02

Looking at the number 61 which has 60 repeating digits; while 61^2 equals 3721 which has 3660 repeating digits this equals $60 * 61$; while 61^3 equals 226981 which has 223260 repeating digits this equals $60 * 61 * 61$; while 61^4 equals 13845841 which has 13618860 repeating digits this equals $60 * 61 * 61 * 61$. I think this pattern continues for the other three number groups. Note in each case there is only a "+1" never a larger number but which digit gets it changes except for the numbers ending with 1 they are always a perfect 10%. There is a similar pattern for the other groups ending with a 3, 7 or 9.

Other documents to look at also, check them out.

"engert.us/erwin/miscellaneous.html" The main page where all the following and more can be found;

"[engert.us/erwin/miscellaneous/A different collection of numbers.pdf](http://engert.us/erwin/miscellaneous/A%20different%20collection%20of%20numbers.pdf)" A listing of the Short repeating digits for larger numbers.

"[engert.us/erwin/miscellaneous/Three large prime numbers and reciprocals.pdf](http://engert.us/erwin/miscellaneous/Three%20large%20prime%20numbers%20and%20reciprocals.pdf)" Three large numbers with a short repeating digits that can be used to create a banner.

"[engert.us/erwin/miscellaneous/Cyclic numbers ending in one.pdf](http://engert.us/erwin/miscellaneous/Cyclic%20numbers%20ending%20in%20one.pdf)" Cyclic numbers ending in one is about the distribution of digits 0 through 9.

"[engert.us/erwin/miscellaneous/New repeating digits list.pdf](http://engert.us/erwin/miscellaneous/New%20repeating%20digits%20list.pdf)" A listing of larger numbers with 1 through 199 repeating digits.

"[engert.us/erwin/miscellaneous/Reciprocals of prime numbers.pdf](http://engert.us/erwin/miscellaneous/Reciprocals%20of%20prime%20numbers.pdf)" A listing of the prime numbers with the number of repeating digits for up to 5,000,000 part one.

"[engert.us/erwin/miscellaneous/Reciprocals of prime numbers part two.pdf](http://engert.us/erwin/miscellaneous/Reciprocals%20of%20prime%20numbers%20part%20two.pdf)" A listing of the prime numbers with the number of repeating digits for 5,000,000 to 10,000,000 part two.

"[engert.us/erwin/miscellaneous/Short repeating digits under 100000.pdf](http://engert.us/erwin/miscellaneous/Short%20repeating%20digits%20under%20100000.pdf)" A listing of the Short repeating digits less than 200.

Well next let us look at cubing cyclic numbers and the results produced very similar results. Again the cyclic number ending with 1 has a perfect equal numbers just like in the other two examples. Note the bold and underlined last digit for each cyclic number.

Number = $6\underline{1}^3 = 226981$ 0 = 22326 1 = 22326 2 = 22326 3 = 22326 4 = 22326 5 = 22326 6 = 22326 7 = 22326 8 = 22326 9 = 22326 Chi Square= 0	Number = $13\underline{1}^3 = 2248091$ 0 = 223093 1 = 223093 2 = 223093 3 = 223093 4 = 223093 5 = 223093 6 = 223093 7 = 223093 8 = 223093 9 = 223093 Chi Square= 0	Number = $18\underline{1}^3 = 5929741$ 0 = 589698 1 = 589698 2 = 589698 3 = 589698 4 = 589698 5 = 589698 6 = 589698 7 = 589698 8 = 589698 9 = 589698 Chi Square= 0	Number = $46\underline{1}^3 = 97972181$ 0 = 9775966 1 = 9775966 2 = 9775966 3 = 9775966 4 = 9775966 5 = 9775966 6 = 9775966 7 = 9775966 8 = 9775966 9 = 9775966 Chi Square= 0
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Number = $23^3 = 12167$ 0 = 1164 + 1 1 = 1164 + 1 2 = 1164 + 1 3 = 1163 4 = 1164 + 1 5 = 1164 + 1 6 = 1163 7 = 1164 + 1 8 = 1164 + 1 9 = 1164 + 1 Chi Square= 1.374807E-03	Number = $113^3 = 1442897$ 0 = 143013 + 1 1 = 143013 + 1 2 = 143013 + 1 3 = 143012 4 = 143013 + 1 5 = 143013 + 1 6 = 143012 7 = 143013 + 1 8 = 143013 + 1 9 = 143013 + 1 Chi Square= 1.118849E-05	Number = $193^3 = 7189057$ 0 = 715181 + 1 1 = 715181 + 1 2 = 715181 + 1 3 = 715180 4 = 715181 + 1 5 = 715181 + 1 6 = 715180 7 = 715181 + 1 8 = 715181 + 1 9 = 715181 + 1 Chi Square= 2.239381E-06	Number = $223^3 = 11089567$ 0 = 1103984 + 1 1 = 1103984 + 1 2 = 1103984 + 1 3 = 1103983 4 = 1103984 + 1 5 = 1103984 + 1 6 = 1103983 7 = 1103984 + 1 8 = 1103984 + 1 9 = 1103984 + 1 Chi Square= 1.471942E-06
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Number = $7^3 = 343$ 0 = 30 + 1 1 = 29 2 = 29 3 = 30 + 1 4 = 29 5 = 29 6 = 30 + 1 7 = 29 8 = 29 9 = 30 + 1 Chi Square= 8.163266E-02	Number = $17^3 = 4913$ 0 = 463 + 1 1 = 462 2 = 462 3 = 463 + 1 4 = 462 5 = 462 6 = 463 + 1 7 = 462 8 = 462 9 = 463 + 1 Chi Square= 5.190311E-03	Number = $47^3 = 103823$ 0 = 10162 + 1 1 = 10161 2 = 10161 3 = 10162 + 1 4 = 10161 5 = 10161 6 = 10162 + 1 7 = 10161 8 = 10161 9 = 10162 + 1 Chi Square= 2.361881E-04	Number = $97^3 = 912673$ 0 = 90327 + 1 1 = 90326 2 = 90326 3 = 90327 + 1 4 = 90326 5 = 90326 6 = 90327 + 1 7 = 90326 8 = 90326 9 = 90327 + 1 Chi Square= 2.657058E-05
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Number = $19^3 = 6859$ 0 = 649 1 = 650 + 1 2 = 650 + 1 3 = 650 + 1 4 = 650 + 1 5 = 650 + 1 6 = 650 + 1 7 = 650 + 1 8 = 650 + 1 9 = 649 Chi Square= 2.462297E-03	Number = $29^3 = 24389$ 0 = 2354 1 = 2355 + 1 2 = 2355 + 1 3 = 2355 + 1 4 = 2355 + 1 5 = 2355 + 1 6 = 2355 + 1 7 = 2355 + 1 8 = 2355 + 1 9 = 2354 Chi Square= 6.794632E-04	Number = $59^3 = 205379$ 0 = 20189 1 = 20190 + 1 2 = 20190 + 1 3 = 20190 + 1 4 = 20190 + 1 5 = 20190 + 1 6 = 20190 + 1 7 = 20190 + 1 8 = 20190 + 1 9 = 20189 Chi Square= 7.924824E-05	Number = $109^3 = 1295029$ 0 = 128314 1 = 128315 + 1 2 = 128315 + 1 3 = 128315 + 1 4 = 128315 + 1 5 = 128315 + 1 6 = 128315 + 1 7 = 128315 + 1 8 = 128315 + 1 9 = 128314 Chi Square= 1.247009E-05
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I have checked some of the lower cyclic numbers raised to the fourth power and this produced similar results. Here is a sample for each of the four ending numbers, the same pattern continues for each of the same ending digit, see the values below.

Number = $6\underline{1}^4 = 13845841$ 0 = 1361886 1 = 1361886 2 = 1361886 3 = 1361886 4 = 1361886 5 = 1361886 6 = 1361886 7 = 1361886 8 = 1361886 9 = 1361886 Chi Square= 0	Number = $23^4 = 279841$ 0 = 26768 + 1 1 = 26767 2 = 26767 3 = 26768 + 1 4 = 26767 5 = 26767 6 = 26768 + 1 7 = 26767 8 = 26767 9 = 26768 + 1 Chi Square= 8.966136E-05	Number = $7^4 = 2401$ 0 = 206 + 1 1 = 206 + 1 2 = 206 + 1 3 = 205 4 = 206 + 1 5 = 206 + 1 6 = 205 7 = 206 + 1 8 = 206 + 1 9 = 206 + 1 Chi Square= 7.774538E-03	Number = $19^4 = 130321$ 0 = 12347 + 1 1 = 12346 2 = 12346 3 = 12346 4 = 12346 5 = 12346 6 = 12346 7 = 12346 8 = 12346 9 = 12347 + 1 Chi Square= 1.295946E-04
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Next I checked if breaking into groups of two digits starting with the first digits and treating it like a number between 00 and 99. The first grouping shows how the break down is for a single digit and the second is for the two digit break down. Looking at the first number 32761 the first group is very close grouped or perfect and second group has a wider grouping 158 through 169. I could not find any good patterns from this study. The number 1051 seems to be the last number to have a 0 value, it just happens to be there are no 60's. For the fun of it I added to the end of this page the value 966289 to show how the numbers range from 4812 to 4841 a difference of 29 which is not much of a spread with a Chi value of 0.67.

Number = 181^2=	59 = 162 + 4	14 = 181	89 = 185 + 4	44 = 138 + 5	Number = 179^2=	73 = 163 + 10	28 = 4821 + 9
32761	60 = 167 + 9	15 = 186 + 5	90 = 185 + 4	45 = 139 + 6	32041	74 = 153	29 = 4829 + 17
0 = 3258	61 = 162 + 4	16 = 185 + 4	91 = 187 + 6	46 = 139 + 6	0 = 160 + 7	75 = 160 + 7	30 = 4830 + 18
1 = 3258	62 = 163 + 5	17 = 186 + 5	92 = 184 + 3	47 = 137 + 4	1 = 163 + 10	76 = 161 + 8	31 = 4827 + 15
2 = 3258	63 = 162 + 4	18 = 186 + 5	93 = 186 + 5	48 = 140 + 7	2 = 159 + 6	77 = 162 + 9	32 = 4830 + 18
3 = 3258	64 = 160 + 2	19 = 186 + 5	94 = 188 + 7	49 = 138 + 5	3 = 157 + 4	78 = 158 + 5	33 = 4823 + 11
4 = 3258	65 = 168 + 10	20 = 187 + 6	95 = 184 + 3	50 = 139 + 6	4 = 158 + 5	79 = 156 + 3	34 = 4818 + 6
5 = 3258	66 = 163 + 5	21 = 184 + 3	96 = 185 + 4	51 = 138 + 5	5 = 160 + 7	80 = 160 + 7	35 = 4830 + 18
6 = 3258	67 = 162 + 4	22 = 187 + 6	97 = 188 + 7	52 = 140 + 7	6 = 164 + 11	81 = 159 + 6	36 = 4830 + 18
7 = 3258	68 = 160 + 2	23 = 184 + 3	98 = 184 + 3	53 = 138 + 5	7 = 156 + 3	82 = 164 + 11	37 = 4831 + 19
8 = 3258	69 = 162 + 4	24 = 186 + 5	99 = 183 + 2	54 = 138 + 5	8 = 159 + 6	83 = 157 + 4	38 = 4826 + 14
9 = 3258	70 = 164 + 6	25 = 187 + 6	Chi Square=	55 = 139 + 6	9 = 160 + 7	84 = 158 + 5	39 = 4828 + 16
Chi Square=0	71 = 166 + 8	26 = 185 + 4	1.51209	56 = 139 + 6	10 = 158 + 5	85 = 158 + 5	40 = 4812
	72 = 161 + 3	27 = 185 + 4		57 = 137 + 4	11 = 164 + 11	86 = 161 + 8	41 = 4833 + 21
Number = 181^2=	73 = 163 + 5	28 = 182 + 1	Number = 167^2=	58 = 141 + 8	12 = 155 + 2	87 = 164 + 11	42 = 4832 + 20
32761	74 = 160 + 2	29 = 184 + 3	27889	59 = 139 + 6	13 = 157 + 4	88 = 154 + 1	43 = 4825 + 13
0 = 163 + 5	75 = 164 + 6	30 = 184 + 3	0 = 2772	60 = 136 + 3	14 = 162 + 9	89 = 160 + 7	44 = 4829 + 17
1 = 160 + 2	76 = 167 + 9	31 = 188 + 7	1 = 2772	61 = 141 + 8	15 = 160 + 7	90 = 160 + 7	45 = 4826 + 14
2 = 167 + 9	77 = 159 + 1	32 = 185 + 4	2 = 2772	62 = 138 + 5	16 = 161 + 8	91 = 159 + 6	46 = 4813 + 1
3 = 163 + 5	78 = 164 + 6	33 = 185 + 4	3 = 2773 + 1	63 = 136 + 3	17 = 155 + 2	92 = 163 + 10	47 = 4835 + 23
4 = 162 + 4	79 = 163 + 5	34 = 186 + 5	4 = 2772	64 = 141 + 8	18 = 159 + 6	93 = 154 + 1	48 = 4829 + 17
5 = 162 + 4	80 = 160 + 2	35 = 185 + 4	5 = 2772	65 = 139 + 6	19 = 160 + 7	94 = 158 + 5	49 = 4826 + 14
6 = 161 + 3	81 = 168 + 10	36 = 186 + 5	6 = 2773 + 1	66 = 136 + 3	20 = 162 + 9	95 = 162 + 9	50 = 4827 + 15
7 = 166 + 8	82 = 161 + 3	37 = 188 + 7	7 = 2772	67 = 141 + 8	21 = 161 + 8	96 = 161 + 8	51 = 4824 + 12
8 = 165 + 7	83 = 163 + 5	38 = 184 + 3	8 = 2772	68 = 139 + 6	22 = 156 + 3	97 = 160 + 7	52 = 4819 + 7
9 = 162 + 4	84 = 162 + 4	39 = 186 + 5	9 = 2772	69 = 136 + 3	23 = 158 + 5	98 = 155 + 2	53 = 4840 + 28
10 = 158	85 = 161 + 3	40 = 187 + 6	Chi Square=	70 = 141 + 8	24 = 159 + 6	99 = 159 + 6	54 = 4826 + 14
11 = 163 + 5	86 = 167 + 9	41 = 184 + 3	5.771589E-04	71 = 138 + 5	25 = 165 + 12	Chi Square=	55 = 4824 + 12
12 = 164 + 6	87 = 164 + 6	42 = 183 + 2		72 = 136 + 3	26 = 156 + 3	4.779293	56 = 4828 + 16
13 = 167 + 9	88 = 163 + 5	43 = 183 + 2	Number = 167^2=	73 = 142 + 9	27 = 159 + 6		57 = 4821 + 9
14 = 161 + 3	89 = 158	44 = 184 + 3	27889	74 = 137 + 4	28 = 159 + 6	Number = 983^2=	58 = 4821 + 9
15 = 162 + 4	90 = 162 + 4	45 = 188 + 7	0 = 144 + 11	75 = 137 + 4	29 = 160 + 7	966289	59 = 4841 + 29
16 = 163 + 5	91 = 165 + 7	46 = 185 + 4	1 = 139 + 6	76 = 143 + 10	30 = 163 + 10	0 = 96530	60 = 4825 + 13
17 = 161 + 3	92 = 166 + 8	47 = 184 + 3	2 = 133	77 = 136 + 3	31 = 155 + 2	1 = 96531 + 1	61 = 4827 + 15
18 = 168 + 10	93 = 161 + 3	48 = 189 + 8	3 = 144 + 11	78 = 137 + 4	32 = 157 + 4	2 = 96531 + 1	62 = 4822 + 10
19 = 160 + 2	94 = 162 + 4	49 = 184 + 3	4 = 140 + 7	79 = 144 + 11	33 = 162 + 9	3 = 96530	63 = 4822 + 10
20 = 163 + 5	95 = 162 + 4	50 = 184 + 3	5 = 133	80 = 135 + 2	34 = 160 + 7	4 = 96531 + 1	64 = 4824 + 12
21 = 164 + 6	96 = 163 + 5	51 = 189 + 8	6 = 144 + 11	81 = 136 + 3	35 = 161 + 8	5 = 96531 + 1	65 = 4835 + 23
22 = 159 + 1	97 = 167 + 9	52 = 184 + 3	7 = 138 + 5	82 = 144 + 11	36 = 154 + 1	6 = 96530	66 = 4830 + 18
23 = 167 + 9	98 = 160 + 2	53 = 185 + 4	8 = 134 + 1	83 = 135 + 2	37 = 160 + 7	7 = 96531 + 1	67 = 4823 + 11
24 = 164 + 6	99 = 163 + 5	54 = 188 + 7	9 = 144 + 11	84 = 137 + 4	38 = 160 + 7	8 = 96531 + 1	68 = 4826 + 14
25 = 160 + 2	Chi Square=	55 = 184 + 3	10 = 138 + 5	85 = 143 + 10	39 = 163 + 10	9 = 96530	69 = 4823 + 11
26 = 163 + 5	3.984041	56 = 183 + 2	11 = 134 + 1	86 = 137 + 4	40 = 159 + 6	Chi Square=	70 = 4825 + 13
27 = 161 + 3		57 = 183 + 2	12 = 143 + 10	87 = 135 + 2	41 = 157 + 4	2.486283E-05	71 = 4832 + 20
28 = 166 + 8	Number = 193^2=	58 = 184 + 3	13 = 140 + 7	88 = 143 + 10	42 = 159 + 6		72 = 4832 + 20
29 = 164 + 6	37249	59 = 187 + 6	14 = 134 + 1	89 = 139 + 6	43 = 158 + 5	Number = 983^2=	73 = 4822 + 10
30 = 162 + 4	0 = 3705	60 = 186 + 5	15 = 141 + 8	90 = 133	44 = 164 + 11	966289	74 = 4824 + 12
31 = 160 + 2	1 = 3706 + 1	61 = 184 + 3	16 = 142 + 9	91 = 143 + 10	45 = 157 + 4	0 = 4841 + 29	75 = 4822 + 10
32 = 162 + 4	2 = 3706 + 1	62 = 188 + 7	17 = 133	92 = 139 + 6	46 = 159 + 6	1 = 4827 + 15	76 = 4828 + 16
33 = 163 + 5	3 = 3705	63 = 186 + 5	18 = 141 + 8	93 = 134 + 1	47 = 158 + 5	2 = 4825 + 13	77 = 4830 + 18
34 = 168 + 10	4 = 3706 + 1	64 = 185 + 4	19 = 142 + 9	94 = 144 + 11	48 = 161 + 8	3 = 4826 + 14	78 = 4828 + 16
35 = 160 + 2	5 = 3706 + 1	65 = 186 + 5	20 = 133	95 = 137 + 4	49 = 164 + 11	4 = 4826 + 14	79 = 4833 + 21
36 = 162 + 4	6 = 3705	66 = 185 + 4	21 = 141 + 8	96 = 134 + 1	50 = 154 + 1	5 = 4818 + 6	80 = 4822 + 10
37 = 163 + 5	7 = 3706 + 1	67 = 185 + 4	22 = 141 + 8	97 = 144 + 11	51 = 158 + 5	6 = 4839 + 27	81 = 4817 + 5
38 = 162 + 4	8 = 3706 + 1	68 = 188 + 7	23 = 134 + 1	98 = 138 + 5	52 = 161 + 8	7 = 4827 + 15	82 = 4829 + 17
39 = 167 + 9	9 = 3705	69 = 184 + 3	24 = 141 + 8	99 = 133	53 = 160 + 7	8 = 4827 + 15	83 = 4830 + 18
40 = 162 + 4	Chi Square=	70 = 184 + 3	25 = 140 + 7	Chi Square=	54 = 161 + 8	9 = 4825 + 13	84 = 4831 + 19
41 = 162 + 4	6.476684E-04	71 = 182 + 1	26 = 135 + 2	6.924388	55 = 154 + 1	10 = 4820 + 8	85 = 4827 + 15
42 = 163 + 5		72 = 185 + 4	27 = 141 + 8		56 = 161 + 8	11 = 4822 + 10	86 = 4824 + 12
43 = 159 + 1	Number = 193^2=	73 = 185 + 4	28 = 139 + 6	Number	57 = 160 + 7	12 = 4838 + 26	87 = 4815 + 3
44 = 169 + 11	37249	74 = 187 + 6	29 = 136 + 3	Number = 179^2=	58 = 162 + 9	13 = 4829 + 17	88 = 4832 + 20
45 = 163 + 5	0 = 183 + 2	75 = 186 + 5	30 = 142 + 9	32041	59 = 159 + 6	14 = 4826 + 14	89 = 4833 + 21
46 = 161 + 3	1 = 184 + 3	76 = 184 + 3	31 = 138 + 5	0 = 3187 + 1	60 = 156 + 3	15 = 4822 + 10	90 = 4827 + 15
47 = 161 + 3	2 = 188 + 7	77 = 187 + 6	32 = 136 + 3	1 = 3186	61 = 159 + 6	16 = 4823 + 11	91 = 4826 + 14
48 = 161 + 3	3 = 185 + 4	78 = 184 + 3	33 = 142 + 9	2 = 3186	62 = 158 + 5	17 = 4825 + 13	92 = 4826 + 14
49 = 166 + 8	4 = 184 + 3	79 = 187 + 6	34 = 138 + 5	3 = 3186	63 = 165 + 12	18 = 4835 + 23	93 = 4814 + 2
50 = 166 + 8	5 = 188 + 7	80 = 186 + 5	35 = 136 + 3	4 = 3186	64 = 157 + 4	19 = 4831 + 19	94 = 4836 + 24
51 = 161 + 3	6 = 186 + 5	81 = 186 + 5	36 = 141 + 8	5 = 3186	65 = 159 + 6	20 = 4820 + 8	95 = 4827 + 15
52 = 161 + 3	7 = 184 + 3	82 = 186 + 5	37 = 139 + 6	6 = 3186	66 = 157 + 4	21 = 4825 + 13	96 = 4827 + 15
53 = 161 + 3	8 = 187 + 6	83 = 185 + 4	38 = 136 + 3	7 = 3186	67 = 161 + 8	22 = 4823 + 11	97 = 4828 + 16
54 = 163 + 5	9 = 185 + 4	84 = 186 + 5	39 = 142 + 9	8 = 3186	68 = 164 + 11	23 = 4826 + 14	98 = 4826 + 14
55 = 169 + 11	10 = 185 + 4	85 = 181	40 = 138 + 5	9 = 3187 + 1	69 = 155 + 2	24 = 4831 + 19	99 = 4812
56 = 159 + 1	11 = 187 + 6	86 = 184 + 3	41 = 136 + 3	Chi Square=	70 = 159 + 6	25 = 4829 + 17	Chi Square=
57 = 163 + 5	12 = 185 + 4	87 = 185 + 4	42 = 141 + 8	5.021656E-04	71 = 160 + 7	26 = 4831 + 19	.6913691
58 = 162 + 4	13 = 184 + 3	88 = 187 + 6	43 = 138 + 5		72 = 159 + 6	27 = 4820 + 8	

The number of cyclic primes for each block first at 1,000 then 10,000 showing the running fraction for the primes ending with 1, 3, 7 or 9's. After 10,000 block increment increased to 100,000 and then by 1, 000,000 reaching 50,000,000 faster. By 15,000,000 the values reached a fixed value. The first percent is low while the last three percents are almost the same value, this was unexpected I thought they all would be 25% rather the 1's are about 21.04 while the 3's, 7's and 9's are about 26.32. The fraction at the end is the percent of the number of cyclic numbers to the total numbers. By the way for your interest I looked at prime numbers for the distribution of last digits and they are very close to 25% for each of the four number groups, see the last two pages after this table below.

numbers	ending in 1	ending in 3	ending in 7	ending in 9	total	fraction
1000	12 20.00%	16 26.67%	16 26.67%	16 26.67%	60	6.00%
2000	26 22.41%	32 27.59%	29 25.00%	29 25.00%	116	5.80%
3000	38 21.71%	48 27.43%	43 24.57%	46 26.29%	175	5.83%
4000	49 22.48%	59 27.06%	54 24.77%	56 25.69%	218	5.45%
5000	58 22.48%	69 26.74%	67 25.97%	64 24.81%	258	5.16%
6000	69 22.85%	79 26.16%	78 25.83%	76 25.17%	302	5.03%
7000	79 22.64%	94 26.93%	89 25.50%	87 24.93%	349	4.99%
8000	84 21.54%	105 26.92%	102 26.15%	99 25.38%	390	4.88%
9000	92 21.35%	118 27.38%	112 25.99%	109 25.29%	431	4.79%
10000	103 22.06%	124 26.55%	122 26.12%	118 25.27%	467	4.67%
20000	185 21.39%	233 26.94%	228 26.36%	219 25.32%	865	4.33%
30000	254 20.58%	336 27.23%	331 26.82%	313 25.36%	1234	4.11%
40000	324 20.42%	434 27.35%	416 26.21%	413 26.02%	1587	3.97%
50000	409 21.01%	517 26.55%	514 26.40%	507 26.04%	1947	3.89%
60000	479 20.86%	605 26.35%	614 26.74%	598 26.05%	2296	3.83%
70000	547 20.73%	696 26.37%	703 26.64%	693 26.26%	2639	3.77%
80000	618 20.77%	787 26.45%	788 26.49%	782 26.29%	2975	3.72%
90000	686 20.84%	867 26.34%	869 26.41%	869 26.41%	3291	3.66%
100000	750 20.74%	954 26.38%	957 26.46%	956 26.43%	3617	3.62%
200000	1416 21.02%	1775 26.35%	1765 26.20%	1781 26.44%	6737	3.37%
300000	2049 21.06%	2557 26.28%	2549 26.20%	2574 26.46%	9729	3.24%
400000	2675 21.02%	3340 26.25%	3331 26.18%	3378 26.55%	12724	3.18%
500000	3284 21.09%	4096 26.30%	4075 26.17%	4118 26.44%	15573	3.11%
600000	3899 21.15%	4852 26.31%	4829 26.19%	4859 26.35%	18439	3.07%
700000	4473 21.09%	5570 26.27%	5562 26.23%	5601 26.41%	21206	3.03%
800000	5064 21.09%	6315 26.30%	6312 26.29%	6316 26.31%	24007	3.00%
900000	5636 21.05%	7040 26.29%	7043 26.30%	7057 26.36%	26776	2.98%
1000000	6236 21.14%	7736 26.22%	7746 26.26%	7782 26.38%	29500	2.95%
2000000	11814 21.15%	14643 26.22%	14626 26.19%	14767 26.44%	55850	2.79%
3000000	17115 21.06%	21379 26.30%	21325 26.24%	21459 26.40%	81278	2.71%
4000000	22318 21.06%	27881 26.31%	27811 26.24%	27978 26.40%	105988	2.65%
5000000	27436 21.03%	34335 26.32%	34256 26.26%	34423 26.39%	130450	2.61%
6000000	32504 21.03%	40715 26.34%	40560 26.24%	40803 26.40%	154582	2.58%
7000000	37532 21.03%	46974 26.32%	46895 26.27%	47083 26.38%	178484	2.55%
8000000	42543 21.06%	53171 26.32%	53066 26.26%	53265 26.36%	202045	2.53%
9000000	47561 21.08%	59346 26.30%	59295 26.28%	59424 26.34%	225626	2.51%
10000000	52430 21.07%	65504 26.32%	65446 26.30%	65501 26.32%	248881	2.49%
11000000	57308 21.07%	71541 26.30%	71585 26.32%	71540 26.30%	271974	2.47%
12000000	62175 21.08%	77598 26.30%	77629 26.31%	77608 26.31%	295010	2.46%
13000000	66969 21.06%	83651 26.31%	83667 26.31%	83709 26.32%	317996	2.45%
14000000	71685 21.05%	89565 26.30%	89678 26.33%	89633 26.32%	340561	2.43%
15000000	76449 21.05%	95550 26.31%	95613 26.33%	95545 26.31%	363157	2.42%
16000000	81279 21.07%	101548 26.32%	101482 26.30%	101515 26.31%	385824	2.41%
17000000	85958 21.05%	107459 26.32%	107432 26.31%	107450 26.32%	408299	2.40%
18000000	90725 21.06%	113368 26.32%	113330 26.31%	113329 26.31%	430752	2.39%
19000000	95409 21.06%	119290 26.33%	119227 26.31%	119196 26.31%	453122	2.38%
20000000	100142 21.07%	125088 26.31%	125103 26.32%	125021 26.30%	475354	2.38%
21000000	104841 21.07%	130978 26.32%	130933 26.31%	130838 26.29%	497590	2.37%
22000000	109500 21.07%	136830 26.33%	136714 26.30%	136712 26.30%	519756	2.36%
23000000	114178 21.07%	142647 26.33%	142545 26.31%	142488 26.30%	541858	2.36%
24000000	118802 21.07%	148435 26.33%	148313 26.31%	148259 26.30%	563809	2.35%
25000000	123467 21.07%	154245 26.32%	154149 26.30%	154157 26.31%	586018	2.34%
26000000	128097 21.07%	160009 26.32%	159839 26.30%	159908 26.31%	607853	2.34%
27000000	132657 21.07%	165789 26.33%	165587 26.29%	165715 26.31%	629748	2.33%
28000000	137202 21.06%	171622 26.34%	171344 26.30%	171406 26.31%	651574	2.33%
29000000	141744 21.05%	177401 26.35%	177116 26.30%	177110 26.30%	673371	2.32%
30000000	146304 21.05%	183091 26.34%	182849 26.30%	182892 26.31%	695136	2.32%
31000000	150884 21.04%	188840 26.34%	188603 26.31%	188639 26.31%	716966	2.31%
32000000	155413 21.04%	194518 26.33%	194375 26.31%	194360 26.31%	738666	2.31%
33000000	159992 21.05%	200179 26.33%	200015 26.31%	200006 26.31%	760192	2.30%
34000000	164579 21.05%	205819 26.33%	205662 26.31%	205756 26.32%	781816	2.30%
35000000	169086 21.05%	211479 26.33%	211295 26.30%	211457 26.32%	803317	2.30%
36000000	173619 21.05%	217094 26.32%	216972 26.30%	217150 26.33%	824835	2.29%
37000000	178144 21.05%	222770 26.32%	222610 26.30%	222836 26.33%	846360	2.29%

38000000	182686	21.05%	228398	26.32%	228217	26.30%	228490	26.33%	867791	2.28%
39000000	187253	21.06%	233995	26.31%	233894	26.30%	234104	26.33%	889246	2.28%
40000000	191726	21.05%	239665	26.32%	239576	26.31%	239747	26.33%	910714	2.28%
41000000	196236	21.05%	245385	26.33%	245116	26.30%	245389	26.33%	932126	2.27%
42000000	200610	21.04%	250990	26.33%	250703	26.30%	250995	26.33%	953298	2.27%
43000000	205029	21.04%	256614	26.33%	256292	26.30%	256582	26.33%	974517	2.27%
44000000	209575	21.05%	262231	26.33%	261847	26.30%	262119	26.32%	995772	2.26%
45000000	214029	21.04%	267829	26.33%	267545	26.30%	267738	26.32%	1017141	2.26%
46000000	218449	21.04%	273374	26.33%	273088	26.30%	273392	26.33%	1038303	2.26%
47000000	222980	21.05%	278878	26.32%	278636	26.30%	278895	26.33%	1059389	2.25%
48000000	227405	21.05%	284411	26.32%	284202	26.30%	284454	26.33%	1080472	2.25%
49000000	231852	21.05%	289941	26.32%	289688	26.30%	290058	26.33%	1101539	2.25%
50000000	236222	21.04%	295501	26.32%	295294	26.31%	295543	26.33%	1122560	2.25%

Here is the sample of the prime numbers how they are distribute between the four ending digit. Even with the first million the numbers are very close to 25.00%. In the first 50,000,000 numbers there are 3,001,133 prime numbers with 1,122,560 cyclic numbers means 6.00% of all numbers are prime and 2.25% are cyclic, note how these percents are dropping how low will they get, ratio of cyclic to prime approach 37.3955%.

prime	ending in 1	ending in 3	ending in 7	ending in 9	total	fraction
1000000	19617 24.99%	19666 25.05%	19621 25.00%	19593 24.96%	78497	7.85%
2000000	37188 24.97%	37257 25.02%	37267 25.02%	37220 24.99%	148932	7.45%
3000000	54175 24.99%	54230 25.01%	54250 25.02%	54160 24.98%	216815	7.23%
4000000	70779 25.00%	70819 25.01%	70794 25.00%	70753 24.99%	283145	7.08%
5000000	87063 24.98%	87216 25.03%	87178 25.01%	87055 24.98%	348512	6.97%
6000000	103154 24.99%	103280 25.02%	103206 25.00%	103208 25.00%	412848	6.88%
7000000	119109 24.99%	119174 25.00%	119210 25.01%	119154 25.00%	476647	6.81%
8000000	134912 24.99%	134997 25.01%	134998 25.01%	134869 24.99%	539776	6.75%
9000000	150605 25.00%	150662 25.01%	150654 25.01%	150567 24.99%	602488	6.69%
10000000	166104 24.99%	166230 25.01%	166211 25.01%	166033 24.98%	664578	6.65%
11000000	181589 24.99%	181661 25.00%	181743 25.02%	181523 24.99%	726516	6.60%
12000000	196971 24.99%	197021 25.00%	197119 25.01%	196948 24.99%	788059	6.57%
13000000	212259 24.99%	212337 25.00%	212428 25.01%	212227 24.99%	849251	6.53%
14000000	227479 25.00%	227572 25.01%	227599 25.01%	227426 24.99%	910076	6.50%
15000000	242574 24.99%	242801 25.01%	242754 25.01%	242574 24.99%	970703	6.47%
16000000	257722 24.99%	257942 25.02%	257724 24.99%	257741 25.00%	1031129	6.44%
17000000	272767 24.99%	272931 25.01%	272794 25.00%	272821 25.00%	1091313	6.42%
18000000	287767 24.99%	287986 25.01%	287808 25.00%	287805 25.00%	1151366	6.40%
19000000	302678 24.99%	302897 25.01%	302745 25.00%	302729 25.00%	1211049	6.37%
20000000	317587 24.99%	317745 25.01%	317690 25.00%	317584 24.99%	1270606	6.35%
21000000	332391 24.99%	332631 25.01%	332523 25.00%	332397 24.99%	1329942	6.33%
22000000	347206 24.99%	347447 25.01%	347371 25.00%	347236 24.99%	1389260	6.31%
23000000	361955 24.99%	362126 25.00%	362178 25.01%	361961 24.99%	1448220	6.30%
24000000	376664 24.99%	376832 25.00%	376935 25.01%	376690 24.99%	1507121	6.28%
25000000	391329 24.99%	391535 25.00%	391633 25.01%	391429 25.00%	1565926	6.26%
26000000	406113 25.00%	406140 25.00%	406217 25.01%	406056 25.00%	1624526	6.25%
27000000	420704 25.00%	420773 25.00%	420834 25.00%	420753 25.00%	1683064	6.23%
28000000	435309 25.00%	435439 25.00%	435422 25.00%	435259 24.99%	1741429	6.22%
29000000	449832 25.00%	450048 25.01%	450044 25.01%	449751 24.99%	1799675	6.21%
30000000	464357 24.99%	464593 25.01%	464579 25.01%	464329 24.99%	1857858	6.19%
31000000	478893 24.99%	479055 25.00%	479155 25.01%	478875 24.99%	1915978	6.18%
32000000	493340 24.99%	493504 25.00%	493589 25.01%	493381 25.00%	1973814	6.17%
33000000	507776 24.99%	507956 25.00%	508126 25.01%	507808 24.99%	2031666	6.16%
34000000	522158 24.99%	522469 25.01%	522522 25.01%	522229 24.99%	2089378	6.15%
35000000	536507 24.99%	536775 25.00%	536853 25.01%	536639 25.00%	2146774	6.13%
36000000	550788 24.99%	551199 25.01%	551252 25.01%	551022 25.00%	2204261	6.12%
37000000	565123 24.99%	565573 25.01%	565517 25.00%	565409 25.00%	2261622	6.11%
38000000	579514 24.99%	579873 25.01%	579886 25.01%	579692 25.00%	2318965	6.10%
39000000	593965 24.99%	594165 25.00%	594276 25.01%	593995 25.00%	2376401	6.09%
40000000	608253 24.99%	608417 25.00%	608668 25.01%	608315 25.00%	2433653	6.08%
41000000	622526 24.99%	622710 25.00%	622873 25.01%	622646 25.00%	2490755	6.08%
42000000	636775 24.99%	636911 25.00%	637015 25.00%	636918 25.00%	2547619	6.07%
43000000	650947 24.99%	651224 25.00%	651282 25.01%	651081 25.00%	2604534	6.06%
44000000	665254 25.00%	665454 25.00%	665455 25.00%	665220 25.00%	2661383	6.05%
45000000	679490 25.00%	679657 25.00%	679636 25.00%	679376 24.99%	2718159	6.04%
46000000	693790 25.00%	693848 25.00%	693793 25.00%	693621 24.99%	2775052	6.03%
47000000	708001 25.00%	707987 25.00%	708009 25.00%	707695 24.99%	2831692	6.02%
48000000	722120 25.00%	722027 25.00%	722198 25.01%	721798 24.99%	2888143	6.02%
49000000	736233 25.00%	736147 25.00%	736213 25.00%	735937 24.99%	2944530	6.01%
50000000	750340 25.00%	750395 25.00%	750394 25.00%	750003 24.99%	3001132	6.00%

The following table is a better listing going all the way up to 50,000,000 for each block of 1,000,000 with the running prime numbers and cyclic numbers; following by the block count prime number and cyclic number; block cyclic fraction to prime ending with running fraction.

The running values start from 3 and go up to the block count and the block is the 1,000,000 block values. The percent of max to primes divided by the number of prime is close to the 37.3955% as suggested This numbers is known as Artin's constant which is equal to 0.3739558136192022880547280543464164151116292486061500.

Block Count	running prime	running cyclic	block prime	block cyclic	block fraction	running fraction
1,000,000	78,497	29,500	78,497	29,500	37.58%	37.5811%
2,000,000	148,932	55,850	70,435	26,350	37.41%	37.5003%
3,000,000	216,815	81,278	67,883	25,428	37.46%	37.4873%
4,000,000	283,145	105,988	66,330	24,710	37.25%	37.4324%
5,000,000	348,512	130,450	65,367	24,462	37.42%	37.4306%
6,000,000	412,848	154,582	64,336	24,132	37.51%	37.4428%
7,000,000	476,647	178,484	63,799	23,902	37.46%	37.4457%
8,000,000	539,776	202,045	63,129	23,561	37.32%	37.4313%
9,000,000	602,488	225,626	62,712	23,581	37.60%	37.4490%
10,000,000	664,578	248,881	62,090	23,255	37.45%	37.4495%
11,000,000	726,516	271,974	61,938	23,093	37.28%	37.4354%
12,000,000	788,059	295,010	61,543	23,036	37.43%	37.4350%
13,000,000	849,251	317,996	61,192	22,986	37.56%	37.4443%
14,000,000	910,076	340,561	60,825	22,565	37.10%	37.4212%
15,000,000	970,703	363,157	60,627	22,596	37.27%	37.4118%
16,000,000	1,031,129	385,824	60,426	22,667	37.51%	37.4176%
17,000,000	1,091,313	408,299	60,184	22,475	37.34%	37.4136%
18,000,000	1,151,366	430,752	60,053	22,453	37.39%	37.4123%
19,000,000	1,211,049	453,122	59,683	22,370	37.48%	37.4157%
20,000,000	1,270,606	475,354	59,557	22,232	37.33%	37.4116%
21,000,000	1,329,942	497,590	59,336	22,236	37.47%	37.4144%
22,000,000	1,389,260	519,756	59,318	22,166	37.37%	37.4124%
23,000,000	1,448,220	541,858	58,960	22,102	37.49%	37.4154%
24,000,000	1,507,121	563,809	58,901	21,951	37.27%	37.4097%
25,000,000	1,565,926	586,018	58,805	22,209	37.77%	37.4231%
26,000,000	1,624,526	607,853	58,600	21,835	37.26%	37.4173%
27,000,000	1,683,064	629,748	58,538	21,895	37.40%	37.4168%
28,000,000	1,741,429	651,574	58,365	21,826	37.40%	37.4161%
29,000,000	1,799,675	673,371	58,246	21,797	37.42%	37.4163%
30,000,000	1,857,858	695,136	58,183	21,765	37.41%	37.4160%
31,000,000	1,915,978	716,966	58,120	21,830	37.56%	37.4204%
32,000,000	1,973,814	738,666	57,836	21,700	37.52%	37.4233%
33,000,000	2,031,666	760,192	57,852	21,526	37.21%	37.4172%
34,000,000	2,089,378	781,816	57,712	21,624	37.47%	37.4186%
35,000,000	2,146,774	803,317	57,396	21,501	37.46%	37.4197%
36,000,000	2,204,261	824,835	57,487	21,518	37.43%	37.4200%
37,000,000	2,261,622	846,360	57,361	21,525	37.53%	37.4227%
38,000,000	2,318,965	867,791	57,343	21,431	37.37%	37.4215%
39,000,000	2,376,401	889,246	57,436	21,455	37.35%	37.4199%
40,000,000	2,433,653	910,714	57,252	21,468	37.50%	37.4217%
41,000,000	2,490,755	932,126	57,102	21,412	37.50%	37.4234%
42,000,000	2,547,619	953,298	56,864	21,172	37.23%	37.4192%
43,000,000	2,604,534	974,517	56,915	21,219	37.28%	37.4162%
44,000,000	2,661,383	995,772	56,849	21,255	37.39%	37.4156%
45,000,000	2,718,159	1,017,141	56,776	21,369	37.64%	37.4202%
46,000,000	2,775,052	1,038,303	56,893	21,162	37.20%	37.4156%
47,000,000	2,831,692	1,059,389	56,640	21,086	37.23%	37.4119%
48,000,000	2,888,143	1,080,472	56,451	21,083	37.35%	37.4106%
49,000,000	2,944,530	1,101,539	56,387	21,067	37.36%	37.4097%
50,000,000	3,001,133	1,122,560	56,603	21,021	37.14%	37.4045%

Not bad for the expected value of 37.3955%.