Some Exploratory Triangles for "Scales of Mt. Meru"
1993 work in progress — Figures 13-29 9FEB02·EW

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Dual-seeded triangles; to Peirce State 5, (0/1 to 1/1 on Scale-Tree)

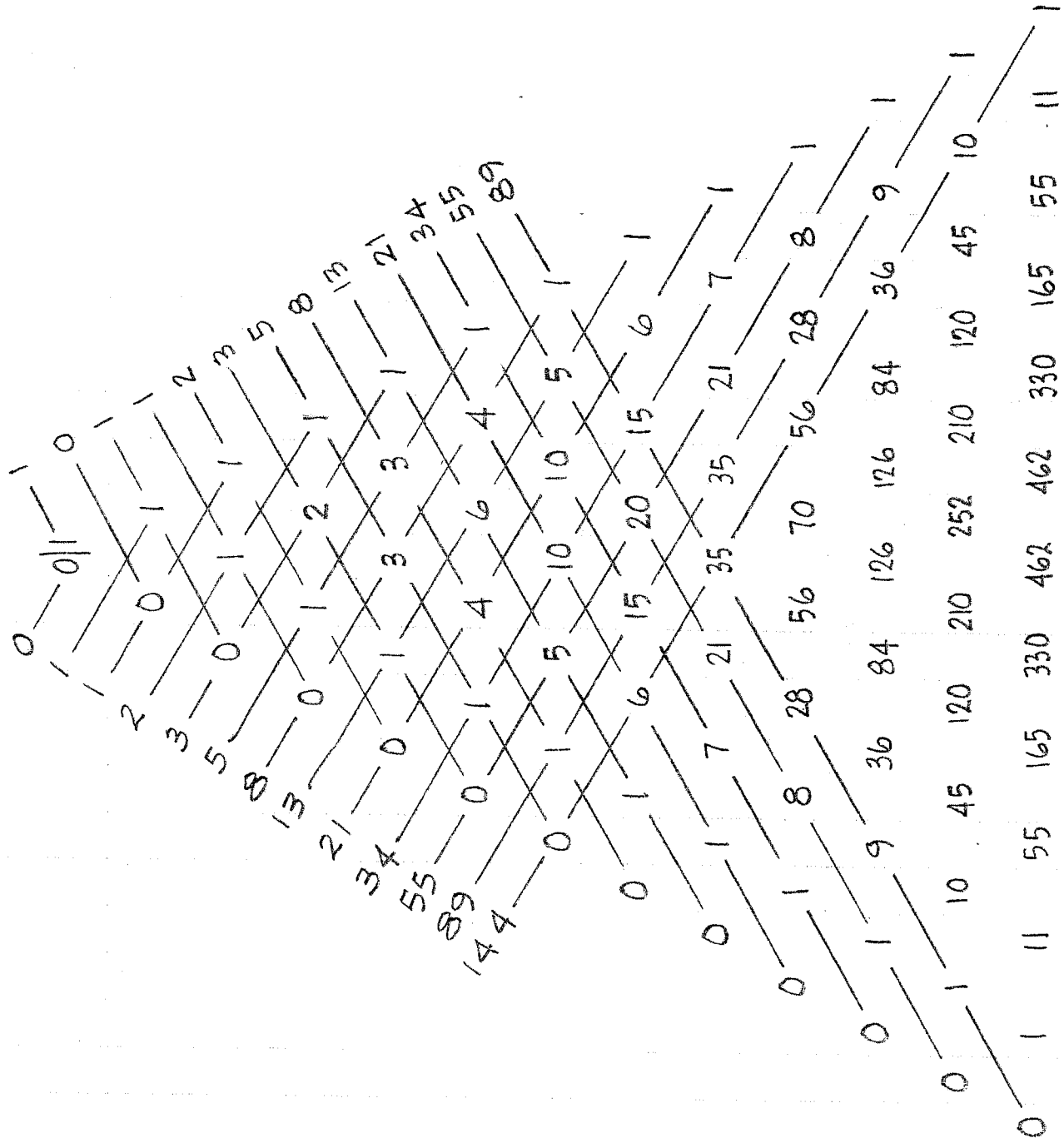

Fig. 13

Fig. 14

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| 73 | | | | | 1 | | 7 | | 11 | | 5 | 33 |
| 118 | | | | 1 | | 8 | | 18 | | 16 | | 53 |
| 191 | | | 1 | | 9 | | 26 | | 34 | | 5 | 86 |
| 309 | | 1 | | 10 | | 35 | | 60 | | 21 | | 139 |
| 500 | 1 | | 11 | | 45 | | 95 | | 55 | | 5 | 225 |
| 809 | | 1 | | 12 | | 56 | | 115 | | 26 | | 364 |
| | 1 | | 13 | | 68 | | 140 | | 81 | | 5 | 589 |
| | | 1 | | 14 | | 81 | | 210 | | 31 | | |
| | 1 | | 15 | | 95 | | 196 | | 112 | | 5 | |
| | | 1 | | 16 | | 110 | | 350 | | 36 | | |
| | 1 | | 17 | | 126 | | 406 | | 148 | | 5 | |
| | | 1 | | 18 | | 144 | | 308 | | 41 | | |
| | 1 | | 19 | | 162 | | 714 | | 189 | | 5 | |
| | | 1 | | 20 | | 182 | | 756 | | 46 | | |
| | 1 | | 21 | | 203 | | 1470 | | 235 | | 5 | |
| | | 1 | | 22 | | 225 | | 1170 | | 51 | | |
| | 1 | | 23 | | 248 | | 2640 | | 286 | | 5 | |
| | | 1 | | 24 | | 272 | | 2772 | | 56 | | |
| | 1 | | 25 | | 297 | | 2112 | | 880 | | 5 | |
| | | 1 | | 26 | | 323 | | 1155 | | 61 | | |
| | 1 | | 27 | | 350 | | 1815 | | 645 | | 5 | |
| | | 1 | | 28 | | 378 | | 440 | | 66 | | |
| | 1 | | 29 | | 407 | | 1170 | | 235 | | 5 | |
| | | 1 | | 30 | | 437 | | 110 | | 71 | | |
| | 1 | | 31 | | 468 | | 645 | | 51 | | 5 | |
| | | 1 | | 32 | | 500 | | 16 | | 76 | | |
| | 1 | | 33 | | 533 | | 286 | | 5 | | | |
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| | 1 | | 37 | | 675 | | 5 | | | | | |
| | | 1 | | 38 | | 713 | | | | | | |
| | 1 | | 39 | | 752 | | | | | | | |
| | | 1 | | 40 | | 792 | | | | | | |
| | 1 | | 41 | | 833 | | | | | | | |
| | | 1 | | 42 | | 875 | | | | | | |
| | 1 | | 43 | | 918 | | | | | | | |
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| | | 1 | | 46 | | 1053 | | | | | | |
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| | 1 | | 59 | | 1742 | | | | | | | |
| | | 1 | | 60 | | 1802 | | | | | | |
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| | | 1 | | 82 | | 3375 | | | | | | |
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| | 1 | | 135 | | 9152 | | | | | | | |
| | | 1 | | 136 | | 9288 | | | | | | |
| | 1 | | 137 | | 9425 | | | | | | | |
| | | 1 | | 138 | | 9563 | | | | | | |
| | 1 | | 139 | | 9702 | | | | | | | |
| | | 1 | | 140 | | 9842 | | | | | | |
| | 1 | | 141 | | 9983 | | | | | | | |
| | | 1 | | 142 | | 10125 | | | | | | |
| | 1 | | 143 | | 10268 | | | | | | | |
| | | 1 | | 144 | | 10412 | | | | | | |
| | 1 | | 145 | | 10557 | | | | | | | |
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| | 1 | | 147 | | 10850 | | | | | | | |
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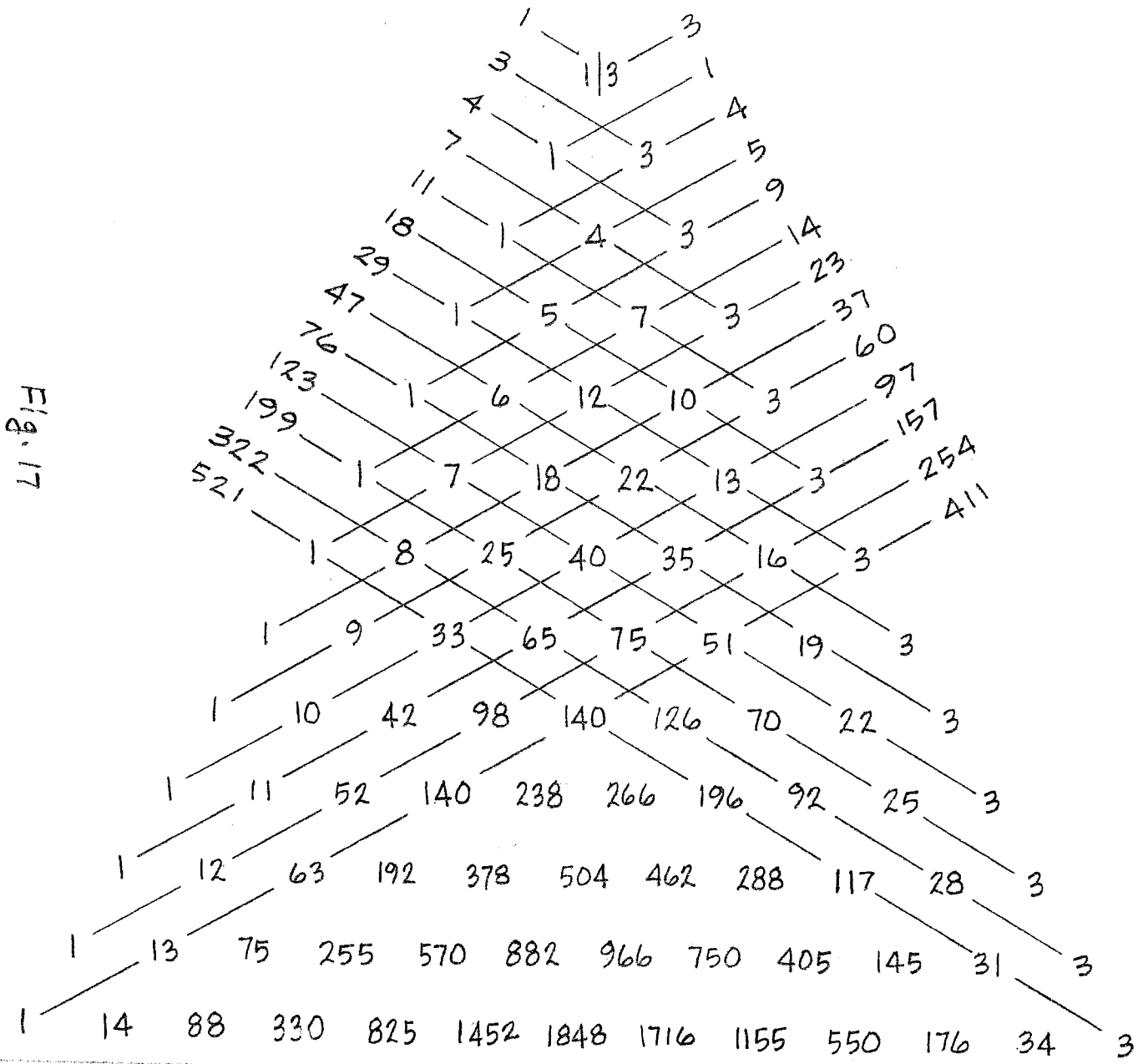
Fig. 15

OLD BLIND DOGS

Fig. 16

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 7 | | | | | | | | | | | |
| 7 | 9 | | | | | | | | | | | |
| 9 | 16 | | | | | | | | | | | |
| 16 | 25 | | | | | | | | | | | |
| 25 | 41 | | | | | | | | | | | |
| 41 | 66 | | | | | | | | | | | |
| 66 | 107 | | | | | | | | | | | |
| 107 | 173 | | | | | | | | | | | |
| 173 | 280 | | | | | | | | | | | |
| 280 | 453 | | | | | | | | | | | |
| 453 | 733 | | | | | | | | | | | |
| 733 | 1186 | | | | | | | | | | | |
| 2 | 7 | 2 | 7 | | | | | | | | | |
| 2 | 9 | 2 | 9 | 11 | | | | | | | | |
| 2 | 16 | 2 | 7 | 11 | 20 | | | | | | | |
| 2 | 25 | 2 | 9 | 7 | 31 | 51 | | | | | | |
| 2 | 41 | 2 | 11 | 16 | 7 | 82 | 133 | | | | | |
| 2 | 66 | 2 | 13 | 27 | 23 | 7 | 215 | 348 | | | | |
| 2 | 107 | 2 | 15 | 40 | 50 | 30 | 7 | 563 | 911 | | | |
| 2 | 173 | 2 | 17 | 55 | 90 | 80 | 37 | 7 | | | | |
| 2 | 280 | 2 | 19 | 72 | 145 | 170 | 117 | 44 | 7 | | | |
| 2 | 453 | 2 | 21 | 91 | 217 | 315 | 287 | 161 | 51 | 7 | | |
| 2 | 733 | 2 | 23 | 112 | 308 | 532 | 602 | 448 | 212 | 58 | 7 | |
| 2 | 1186 | 2 | 25 | 135 | 420 | 840 | 1134 | 1050 | 660 | 270 | 65 | 7 |
| | | 2 | 27 | 160 | 555 | 1260 | 1974 | 2184 | 1710 | 930 | 335 | 72 | 7 |
| | | 2 | 29 | 187 | 715 | 1815 | 3234 | 4158 | 3894 | 2640 | 1265 | 407 | 79 | 7 |

Fig. 17


1 3
1 3 1
1 3 4
1 4 3 5
1 5 7 3 9
1 6 12 10 3 14
1 7 18 22 13 3 23
1 8 25 40 35 16 3 37
1 9 33 65 75 51 19 3 60
1 10 42 98 140 126 70 22 3 97
1 11 52 140 238 266 196 92 25 3 157
1 12 63 192 378 504 462 288 117 28 3 254
1 13 75 255 570 882 966 750 405 145 31 3 411
1 14 88 330 825 1452 1848 1716 1155 550 176 34 3
1
3
4
7
11
18
29
47
76
123
199
322
521

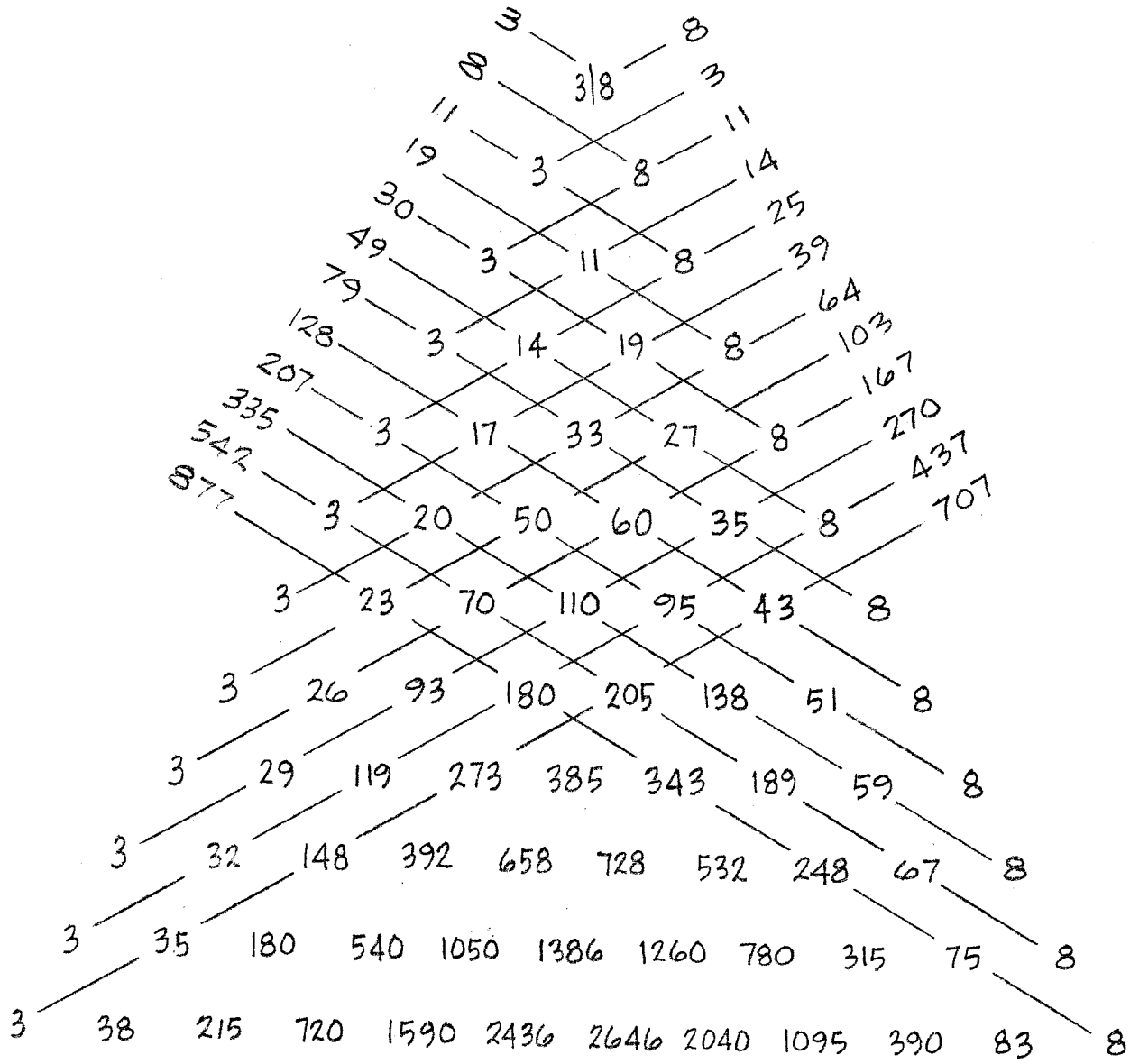

3 8
3 8 3 8
11 3 8 11
19 3 11 8 14
30 3 14 19 8 25
49 3 17 33 27 8 39
79 3 20 50 60 35 8 64
128 3 23 70 110 95 43 8 103
207 3 26 93 180 205 138 51 8 167
335 3 29 119 273 385 343 189 59 8 270
542 3 32 148 392 658 728 532 248 67 8 437
877 3 35 180 540 1050 1386 1260 780 315 75 8 707
3 38 215 720 1590 2436 2646 2040 1095 390 83 8

Fig. 18

Fig. 19

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5 | | | | | | | | | | | |
| 5 | 2 | 5 | | | | | | | | | | |
| 7 | 1 | 2 | 5 | | | | | | | | | |
| 12 | 9 | 2 | 7 | 5 | | | | | | | | |
| 19 | 16 | 2 | 9 | 12 | 5 | | | | | | | |
| 31 | 25 | 2 | 11 | 21 | 17 | 5 | | | | | | |
| 50 | 41 | 2 | 13 | 32 | 38 | 22 | 5 | | | | | |
| 81 | 66 | 2 | 15 | 45 | 70 | 60 | 27 | 5 | | | | |
| 131 | 107 | 2 | 17 | 60 | 115 | 130 | 87 | 32 | 5 | | | |
| 212 | 173 | 2 | 19 | 77 | 175 | 245 | 217 | 119 | 37 | 5 | | |
| 343 | 280 | 2 | 21 | 96 | 252 | 420 | 462 | 336 | 156 | 42 | 5 | |
| 555 | 453 | 2 | 23 | 117 | 348 | 672 | 882 | 798 | 492 | 198 | 47 | 5 |
| 898 | 733 | 2 | 25 | 140 | 465 | 1020 | 1554 | 1680 | 1290 | 690 | 245 | 52 | 5 |
| | | 2 | 27 | 165 | 605 | 1485 | 2574 | 3234 | 2970 | 1980 | 935 | 297 | 57 | 5 |

Fig. 20

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 7 | | | | | | | | | | | |
| 7 | 3 | 7 | | | | | | | | | | |
| 10 | 3 | 7 | 3 | | | | | | | | | |
| 17 | 3 | 10 | 7 | 10 | | | | | | | | |
| 27 | 3 | 13 | 17 | 13 | 7 | | | | | | | |
| 44 | 3 | 16 | 30 | 24 | 23 | 7 | | | | | | |
| 71 | 3 | 19 | 46 | 54 | 36 | 31 | 7 | | | | | |
| 115 | 3 | 22 | 65 | 100 | 85 | 59 | 38 | 7 | | | | |
| 186 | 3 | 25 | 87 | 165 | 185 | 154 | 95 | 45 | 7 | | | |
| 301 | 3 | 28 | 112 | 252 | 350 | 308 | 249 | 168 | 52 | 7 | | |
| 487 | 3 | 31 | 140 | 364 | 602 | 658 | 476 | 403 | 220 | 59 | 7 | |
| 788 | 3 | 34 | 171 | 504 | 966 | 1260 | 1134 | 652 | 696 | 279 | 66 | 7 |
| 1275 | 3 | 37 | 205 | 675 | 1470 | 2226 | 2394 | 1830 | 1055 | 975 | 345 | 73 | 7 |
| | 3 | 40 | 242 | 880 | 2145 | 3696 | 4620 | 4224 | 2805 | 1320 | 418 | 80 | 7 |

Fig. 21

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | | | | | | | | | | |
| 2 | 1 | 1 | 2 | | | | | | | | | |
| 3 | 3 | 1 | 2 | | | | | | | | | |
| 5 | 4 | 1 | 3 | 2 | | | | | | | | |
| 8 | 7 | 1 | 4 | 5 | 2 | | | | | | | |
| 13 | 11 | 1 | 5 | 9 | 7 | 2 | | | | | | |
| 21 | 18 | 1 | 6 | 14 | 16 | 9 | 2 | | | | | |
| 34 | 29 | 1 | 7 | 20 | 30 | 25 | 11 | 2 | | | | |
| 55 | 47 | 1 | 8 | 27 | 50 | 55 | 36 | 13 | 2 | | | |
| 89 | 76 | 1 | 9 | 35 | 77 | 105 | 91 | 49 | 15 | 2 | | |
| 144 | 123 | 1 | 10 | 44 | 112 | 182 | 196 | 140 | 64 | 17 | 2 | |
| 233 | 199 | 1 | 11 | 54 | 156 | 294 | 378 | 336 | 204 | 81 | 19 | 2 |
| 377 | 322 | 1 | 12 | 65 | 210 | 450 | 672 | 714 | 540 | 285 | 100 | 21 | 2 |
| | | 1 | 13 | 77 | 275 | 660 | 1122 | 1386 | 1254 | 825 | 385 | 121 | 23 | 2 |

Fig. 22

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | | | | | | | | | | | | |
| 4 | 7 | | | | | | | | | | | |
| 4 | 11 | 7 | | | | | | | | | | |
| 4 | 15 | 18 | 7 | | | | | | | | | |
| 4 | 19 | 33 | 25 | 7 | | | | | | | | |
| 4 | 23 | 52 | 58 | 32 | 7 | | | | | | | |
| 4 | 27 | 75 | 110 | 90 | 39 | 7 | | | | | | |
| 4 | 31 | 102 | 185 | 200 | 129 | 46 | 7 | | | | | |
| 4 | 35 | 133 | 287 | 385 | 329 | 175 | 53 | 7 | | | | |
| 4 | 39 | 168 | 420 | 672 | 714 | 504 | 228 | 60 | 7 | | | |
| 4 | 43 | 207 | 588 | 1092 | 1386 | 1218 | 732 | 288 | 67 | 7 | | |
| 4 | 47 | 250 | 795 | 1680 | 2478 | 2604 | 1950 | 1020 | 355 | 74 | 7 | |
| 4 | 51 | 297 | 1045 | 2475 | 4158 | 5082 | 4554 | 2970 | 1375 | 429 | 81 | 7 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | | | | | | | | | | | | |
| 11 | 4 | | | | | | | | | | | |
| 18 | 7 | 4 | | | | | | | | | | |
| 29 | 15 | 11 | 4 | | | | | | | | | |
| 47 | 26 | 18 | 7 | 4 | | | | | | | | |
| 76 | 41 | 33 | 25 | 11 | 4 | | | | | | | |
| 123 | 67 | 52 | 58 | 32 | 15 | 4 | | | | | | |
| 199 | 108 | 110 | 90 | 39 | 19 | 7 | 4 | | | | | |
| 322 | 175 | 185 | 200 | 129 | 46 | 23 | 7 | 4 | | | | |
| 521 | 283 | 287 | 329 | 175 | 53 | 27 | 7 | 4 | 4 | | | |
| 843 | 458 | 420 | 714 | 504 | 228 | 60 | 31 | 7 | 4 | 4 | | |
| 1364 | 741 | 588 | 1386 | 1218 | 732 | 288 | 67 | 35 | 7 | 4 | 4 | |
| | 1199 | 1092 | 2478 | 2604 | 1950 | 1020 | 355 | 74 | 39 | 7 | 4 | 4 |
| | | 1680 | 4158 | 5082 | 4554 | 2970 | 1375 | 429 | 81 | 43 | 7 | 4 |
| | | | 6636 | 7686 | 6504 | 3990 | 1730 | 503 | 120 | 47 | 7 | 4 |
| | | | | 10368 | 10188 | 7494 | 3720 | 1232 | 288 | 51 | 7 | 4 |

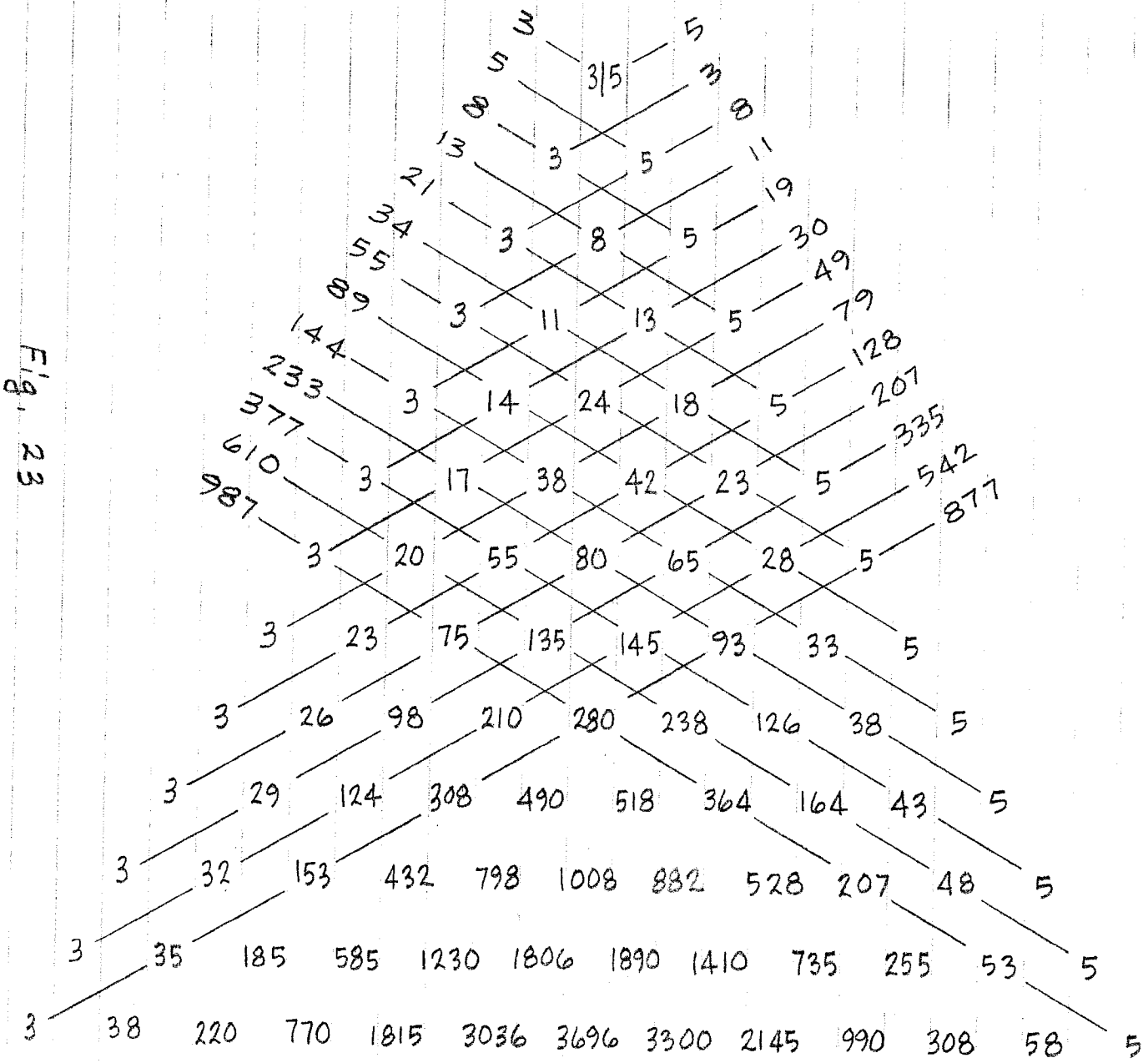

3 5 8 13 21 34 55 89 144 233 377 610 987
5 3 8 11 19 30 49 79 128 207 335 542 877
3 5
3 5 3
3 5 8 5
3 8 11 13 5
3 14 24 18 5
3 17 38 42 23 5
3 20 55 80 65 28 5
3 23 75 135 145 93 33 5
3 26 98 210 280 238 126 38 5
3 29 124 308 490 518 364 164 43 5
3 32 153 432 798 1008 882 528 207 48 5
3 35 185 585 1230 1806 1890 1410 735 255 53 5
3 38 220 770 1815 3036 3696 3300 2145 990 308 58 5

Fig. 23

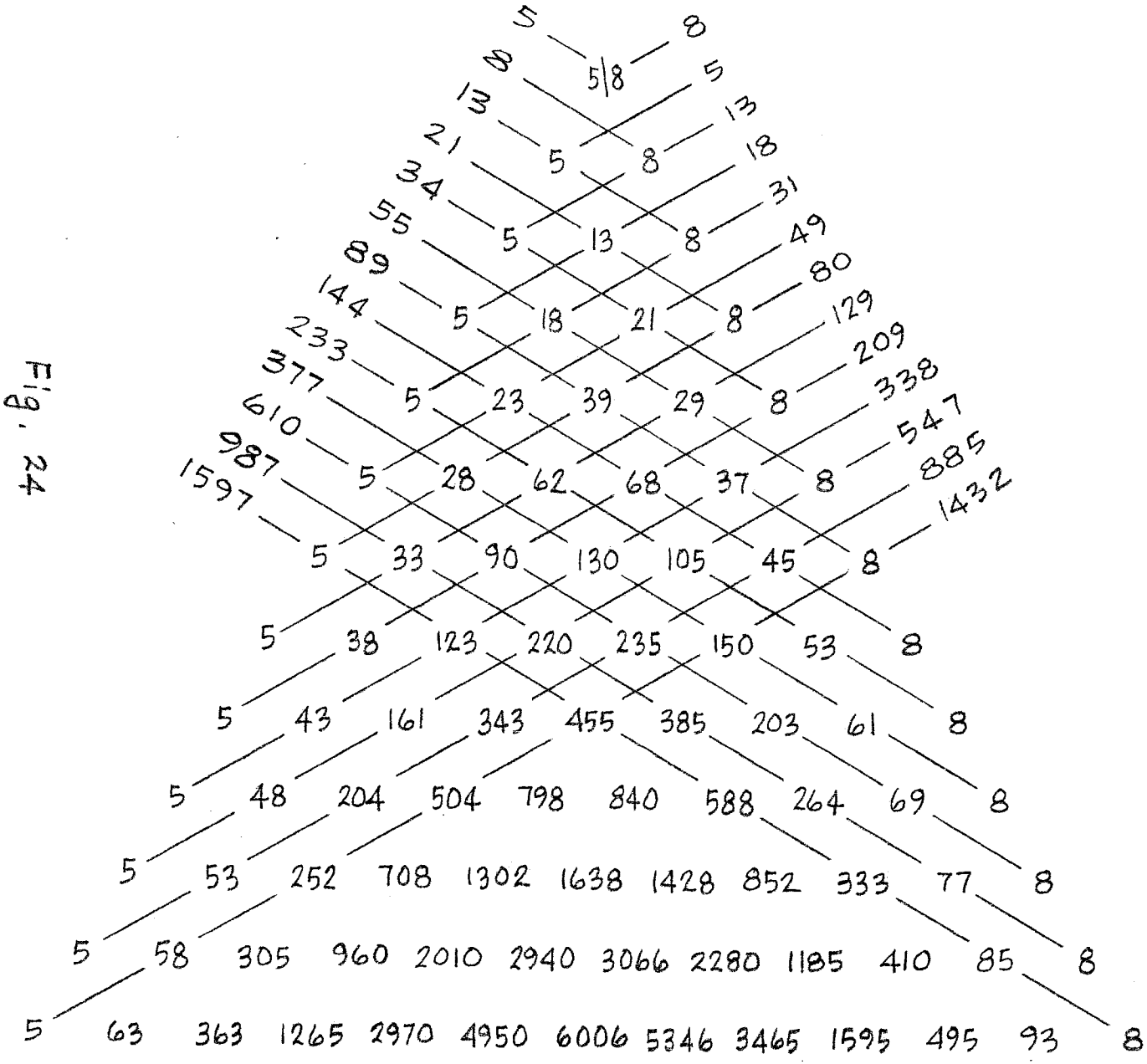
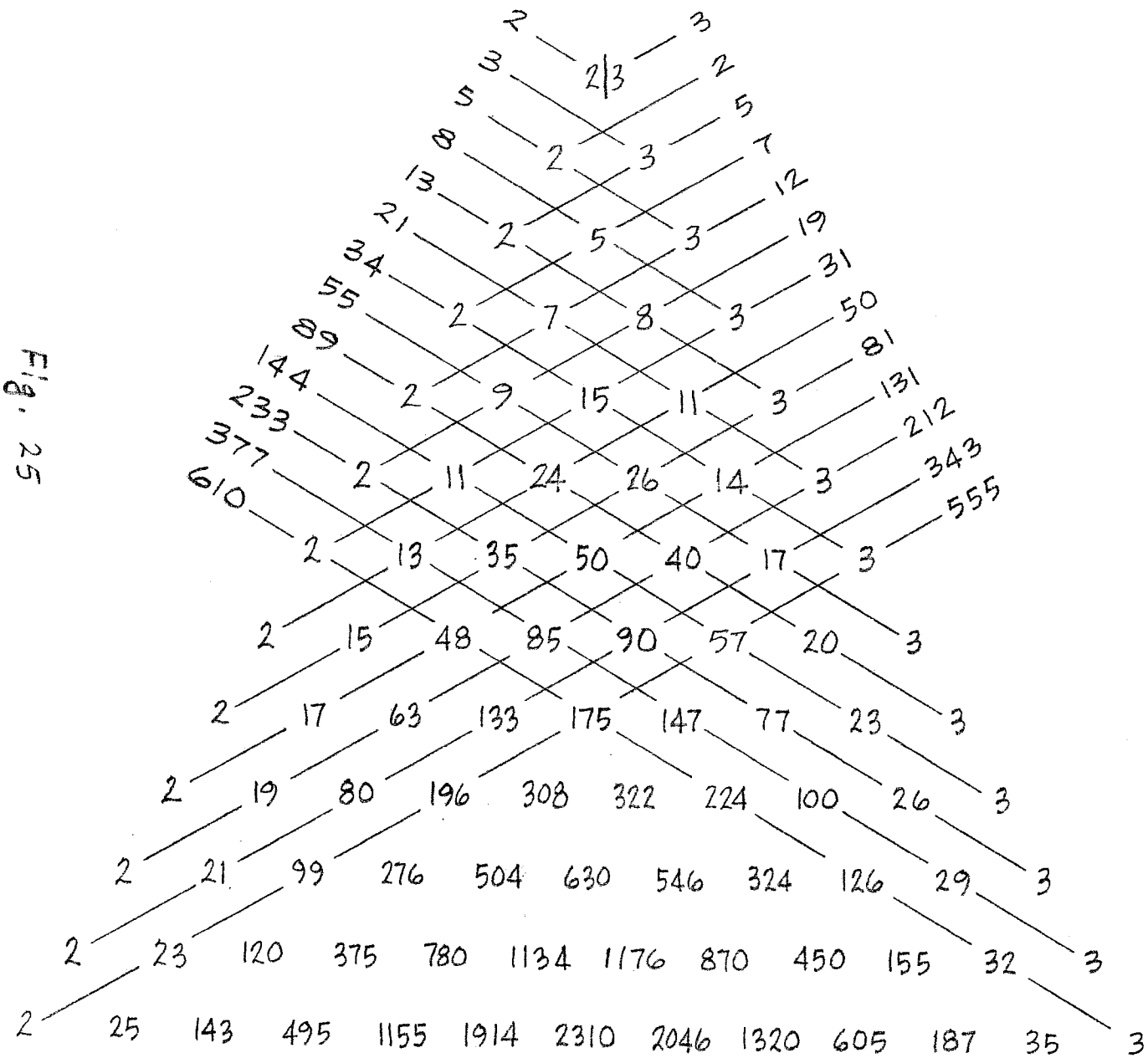

5 8
5 5/8 8
8 5 13
13 5 8 13
21 5 13 8 18
34 5 18 21 8 31
55 5 23 39 29 8 49
89 5 28 62 68 37 8 80
144 5 33 90 130 105 45 8 129
233 5 38 123 220 235 150 53 8 209
377 5 43 161 343 455 385 203 61 8 338
610 5 48 204 504 798 840 588 264 69 8 547
987 5 53 252 708 1302 1638 1428 852 333 77 8 885
1597 5 58 305 960 2010 2940 3066 2280 1185 410 85 8 1432
5 63 363 1265 2970 4950 6006 5346 3465 1595 495 93 8

Fig. 24


2 3
3 2 3
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8 2 5 3 7
13 2 7 8 3 12
21 2 9 15 11 3 19
34 2 11 24 26 14 3 31
55 2 13 35 50 40 17 3 50
89 2 15 48 85 90 57 20 3 81
144 2 17 63 133 175 147 77 23 3 131
233 2 19 80 196 308 322 224 100 26 3 212
377 2 21 99 276 504 630 546 324 126 29 3 343
610 2 23 120 375 780 1134 1176 870 450 155 32 3 555
2 25 143 495 1155 1914 2310 2046 1320 605 187 35 3

Fig. 25

5 7

7 5 12

12 7 17 29

19 5 7 46 75

31 5 12 7 121 196

50 5 17 19 7 317 513

81 5 22 36 26 7 830 1343

131 5 27 58 62 33 7

212 5 32 85 120 95 40 7

343 5 37 117 205 215 135 47 7

555 5 42 154 322 420 350 182 54 7

898 5 47 196 476 742 770 532 236 61 7

1453 5 52 243 672 1218 1512 1302 768 297 68 7

5 57 295 915 1890 2730 2814 2070 1065 365 75 7

5 62 352 1210 2805 4620 5544 4884 3135 1430 440 82 7

Fig. 26

Fig. 27

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 4 | | | | | | | | | | | |
| 4 | 3 | 7 | | | | | | | | | | |
| 7 | 4 | 10 | 17 | | | | | | | | | |
| 11 | 7 | 27 | 44 | 71 | | | | | | | | |
| 18 | 11 | 71 | 115 | 186 | 301 | | | | | | | |
| 29 | 18 | 186 | 301 | 487 | 788 | 1275 | | | | | | |
| 47 | 29 | 487 | 788 | 1275 | 2063 | 3338 | 5401 | | | | | |
| 76 | 47 | 1275 | 2063 | 3338 | 5401 | 8739 | 14140 | 22879 | | | | |
| 123 | 76 | 3338 | 5401 | 8739 | 14140 | 22879 | 37019 | 59898 | 96917 | | | |
| 199 | 123 | 8739 | 14140 | 22879 | 37019 | 59898 | 96917 | 156815 | 253732 | 410547 | | |
| 322 | 199 | 22879 | 37019 | 59898 | 96917 | 156815 | 253732 | 410547 | 664279 | 1074826 | 1739105 | |
| 521 | 322 | 59898 | 96917 | 156815 | 253732 | 410547 | 664279 | 1074826 | 1739105 | 2813931 | 4553036 | 7366967 |
| 843 | 521 | 156815 | 253732 | 410547 | 664279 | 1074826 | 1739105 | 2813931 | 4553036 | 7366967 | 11920003 | 19286970 |

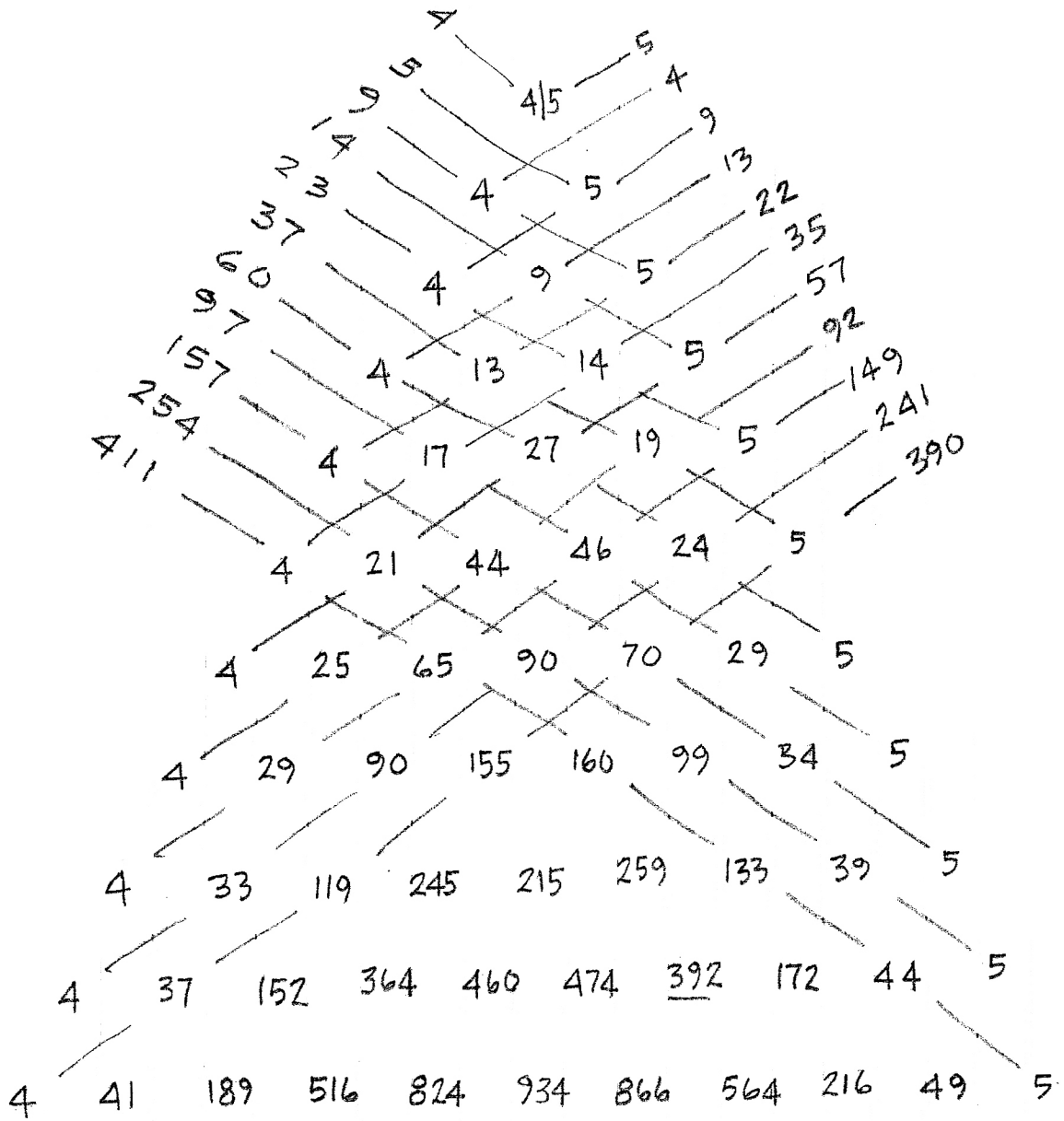
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 4 | | | | | | | | | | | |
| 3 | 3 | 4 | | | | | | | | | | |
| 3 | 4 | 7 | 10 | | | | | | | | | |
| 3 | 7 | 11 | 17 | 27 | | | | | | | | |
| 3 | 11 | 18 | 27 | 44 | 71 | | | | | | | |
| 3 | 18 | 29 | 44 | 71 | 115 | 186 | | | | | | |
| 3 | 29 | 47 | 71 | 115 | 186 | 301 | 487 | | | | | |
| 3 | 47 | 76 | 115 | 186 | 301 | 487 | 788 | 1275 | | | | |
| 3 | 76 | 123 | 186 | 301 | 487 | 788 | 1275 | 2063 | 3338 | | | |
| 3 | 123 | 199 | 301 | 487 | 788 | 1275 | 2063 | 3338 | 5401 | 8739 | | |
| 3 | 199 | 322 | 487 | 788 | 1275 | 2063 | 3338 | 5401 | 8739 | 14140 | 22879 | |
| 3 | 322 | 521 | 788 | 1275 | 2063 | 3338 | 5401 | 8739 | 14140 | 22879 | 37019 | 59898 |
| 3 | 521 | 843 | 1275 | 2063 | 3338 | 5401 | 8739 | 14140 | 22879 | 37019 | 59898 | 96917 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 4 | | | | | | | | | | | |
| 3 | 7 | | | | | | | | | | | |
| 3 | 10 | 11 | | | | | | | | | | |
| 3 | 13 | 21 | 15 | | | | | | | | | |
| 3 | 16 | 34 | 36 | 19 | | | | | | | | |
| 3 | 19 | 50 | 70 | 55 | 23 | | | | | | | |
| 3 | 22 | 69 | 120 | 125 | 78 | 27 | | | | | | |
| 3 | 25 | 91 | 189 | 245 | 203 | 105 | 31 | | | | | |
| 3 | 28 | 116 | 280 | 434 | 448 | 308 | 136 | 35 | | | | |
| 3 | 31 | 144 | 396 | 714 | 882 | 756 | 444 | 171 | 39 | | | |
| 3 | 34 | 175 | 540 | 1110 | 1596 | 1638 | 1200 | 615 | 210 | 43 | | |
| 3 | 37 | 209 | 715 | 1650 | 2706 | 3234 | 2838 | 1815 | 825 | 253 | 47 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | | | | | | | | | | | |
| 3 | 4 | | | | | | | | | | | |
| 7 | 4 | 3 | | | | | | | | | | |
| 10 | 17 | 4 | 3 | | | | | | | | | |
| 27 | 44 | 71 | 4 | 3 | | | | | | | | |
| 71 | 115 | 186 | 301 | 4 | 3 | | | | | | | |
| 186 | 301 | 487 | 788 | 1275 | 4 | 3 | | | | | | |
| 487 | 788 | 1275 | 2063 | 3338 | 5401 | 4 | 3 | | | | | |
| 1275 | 2063 | 3338 | 5401 | 8739 | 14140 | 22879 | 4 | 3 | | | | |
| 3338 | 5401 | 8739 | 14140 | 22879 | 37019 | 59898 | 96917 | 4 | 3 | | | |
| 8739 | 14140 | 22879 | 37019 | 59898 | 96917 | 156815 | 253732 | 410547 | 4 | 3 | | |
| 22879 | 37019 | 59898 | 96917 | 156815 | 253732 | 410547 | 664279 | 1074826 | 1739105 | 4 | 3 | |
| 59898 | 96917 | 156815 | 253732 | 410547 | 664279 | 1074826 | 1739105 | 2813931 | 4553036 | 7366967 | 4 | 3 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | | | | | | | | | | | |
| 3 | 4 | | | | | | | | | | | |
| 7 | 4 | 3 | | | | | | | | | | |
| 10 | 17 | 4 | 3 | | | | | | | | | |
| 27 | 44 | 71 | 4 | 3 | | | | | | | | |
| 71 | 115 | 186 | 301 | 4 | 3 | | | | | | | |
| 186 | 301 | 487 | 788 | 1275 | 4 | 3 | | | | | | |
| 487 | 788 | 1275 | 2063 | 3338 | 5401 | 4 | 3 | | | | | |
| 1275 | 2063 | 3338 | 5401 | 8739 | 14140 | 22879 | 4 | 3 | | | | |
| 3338 | 5401 | 8739 | 14140 | 22879 | 37019 | 59898 | 96917 | 4 | 3 | | | |
| 8739 | 14140 | 22879 | 37019 | 59898 | 96917 | 156815 | 253732 | 410547 | 4 | 3 | | |
| 22879 | 37019 | 59898 | 96917 | 156815 | 253732 | 410547 | 664279 | 1074826 | 1739105 | 4 | 3 | |
| 59898 | 96917 | 156815 | 253732 | 410547 | 664279 | 1074826 | 1739105 | 2813931 | 4553036 | 7366967 | 4 | 3 |

Fig. 28




24 Sep 99 · EW

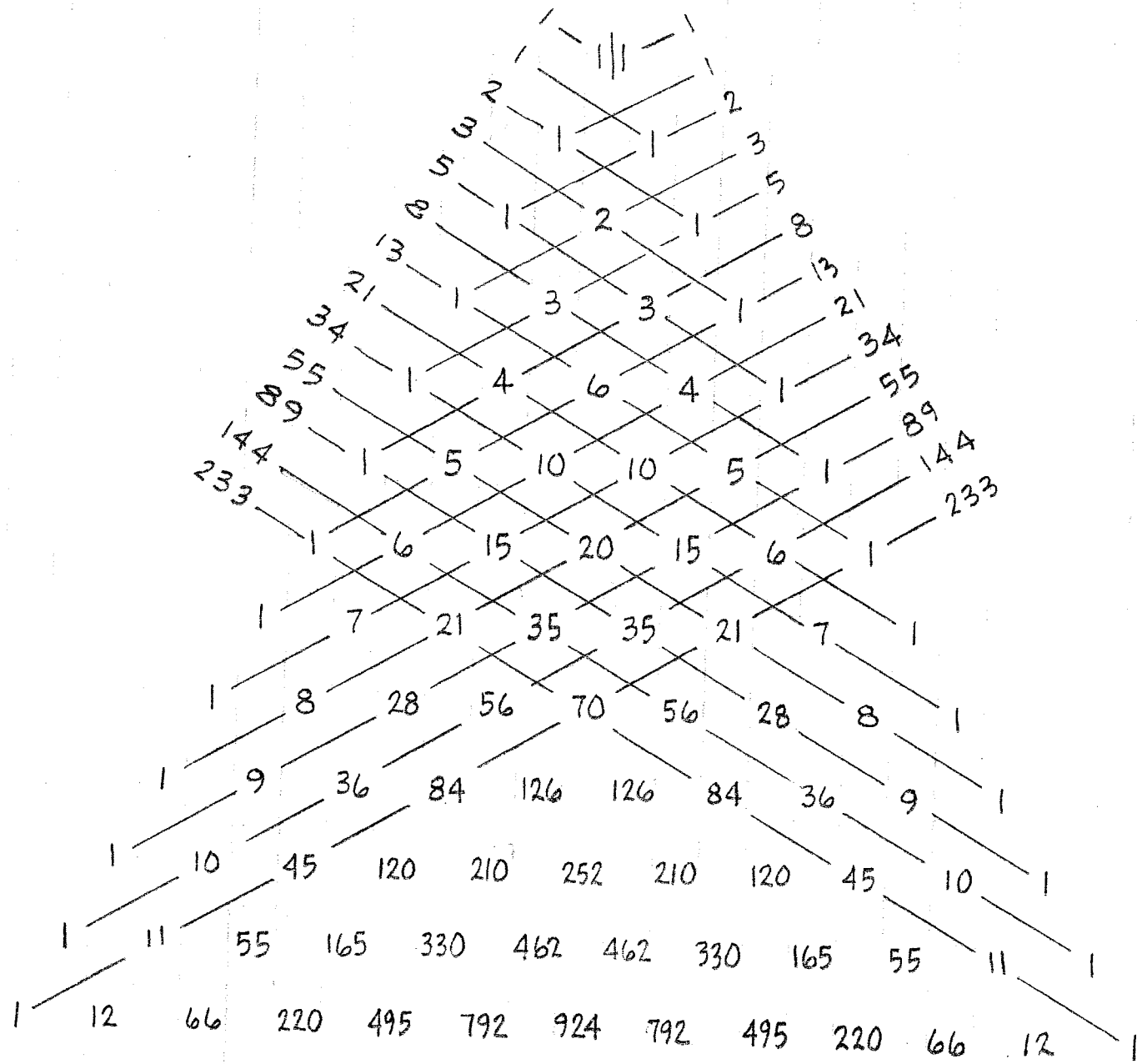



Fig. 29

work in progress E.W. 9 Feb 2002

# (13-10-13) 36-Tone Tubulong, Fibonacci Tuning

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| | | | | |
|---|---|---|---|---|
| 13/0 | +23 514229 | 35. | 0 8 | 0/36 |
| 22 | +33 63245986 | 33. | +10 987 | 34. |
| 7 | +20 121393 | 32 | | |
| 25 | +30 14930352 | 30. | +7 233 | 31. |
| 19 | +17 28657 | 29 | | |
| 13 | +27 3524578 | 27. | +4 55 | 28. |
| 17 | +14 6765 | 26 | | |
| 16 | +24 832040 | 24 | +1 13 | 25. |
| 15 | +11 1597 | 23. | | |
| 14 | +21 196418 | 21. | -2 3 | 22. |
| 13 | +31 24157817 | 19. | +8 377 | 20. |
| 12 | +18 46368 | 18. | | |
| 11 | +28 5702887 | 16 | +5 89 | 17. |
| 10 | +15 10946 | 15. | | |
| 9 | +25 1346269 | 13. | +2 21 | 14. |
| 8 | +12 2584 | 12. | | |
| 7 | +22 317811 | 10. | -1 5 | 11. |
| 6 | +32 39088169 | 8. | +9 610 | 9. |
| 5 | +19 75025 | 7 | | |
| 4 | +29 9227465 | 5. | +6 144 | 6 |
| 3 | +16 17711 | 4. | | |
| 2 | +26 2178309 | 2. | +3 34 | 3. |
| 1 | +13 4181 | 1. | | |
| 0/23 | +33 514229 | 35. | 0 3 | 0/36 |

Erv's Copy

## Split Mountain Haiku

Many things are self-
evident in retrospect
Children can do this.
"Sum of the Diagonals"
by Thomas M. Green
19Sep05.EW



Split Mountain Haiku

Many things are self-
evident in retrospect
Children can do this.
"Sums of the diagonals"
by Thomas M. Green
19Sep05.EW

5
7
5
7
5

0 | 1

0 1

0 1 1

0 1 2 1

0 1 3 3 1

0 1 4 6 4 1

0 1 5 10 10 5 1

0 1 6 15 20 15 6 1

0 1 7 21 35 35 21 7 1

0 1 8 28 56 70 56 28 8 1

0 1 9 36 84 126 126 84 36 9 1

1

$\frac{0}{1}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{2}{7}$ $\frac{1}{3}$ $\frac{3}{8}$ $\frac{2}{5}$ $\frac{3}{7}$ $\frac{1}{2}$ $\frac{4}{7}$ $\frac{3}{5}$ $\frac{5}{8}$ $\frac{2}{3}$ $\frac{5}{7}$ $\frac{3}{4}$ $\frac{4}{5}$ $\frac{1}{1}$

## Split-Mountain Seedlings

$\frac{0}{1}$ thru $\frac{1}{1}$, Peirce State 5

©2005 by Erv Wilson

0 | 1

0 1

0 1 1

0 1 2 1

0 1 3 3 1

0 1 4 6 4 1

0 1 5 10 10 5 1

0 1 6 15 20 15 6 1

0 1 7 21 35 35 21 7 1

0 1 8 28 56 70 56 28 8 1

0 1 9 36 84 126 126 84 36 9 1

$\frac{0}{1}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{2}{7}$ $\frac{1}{3}$ $\frac{3}{8}$ $\frac{2}{5}$ $\frac{3}{7}$ $\frac{1}{2}$ $\frac{4}{7}$ $\frac{3}{5}$ $\frac{5}{8}$ $\frac{2}{3}$ $\frac{5}{7}$ $\frac{3}{4}$ $\frac{4}{5}$ $\frac{1}{1}$ .

<u>Split-Mountain Seedlings</u>

$\frac{0}{1}$ thru $\frac{1}{1}$, Peirce State 5

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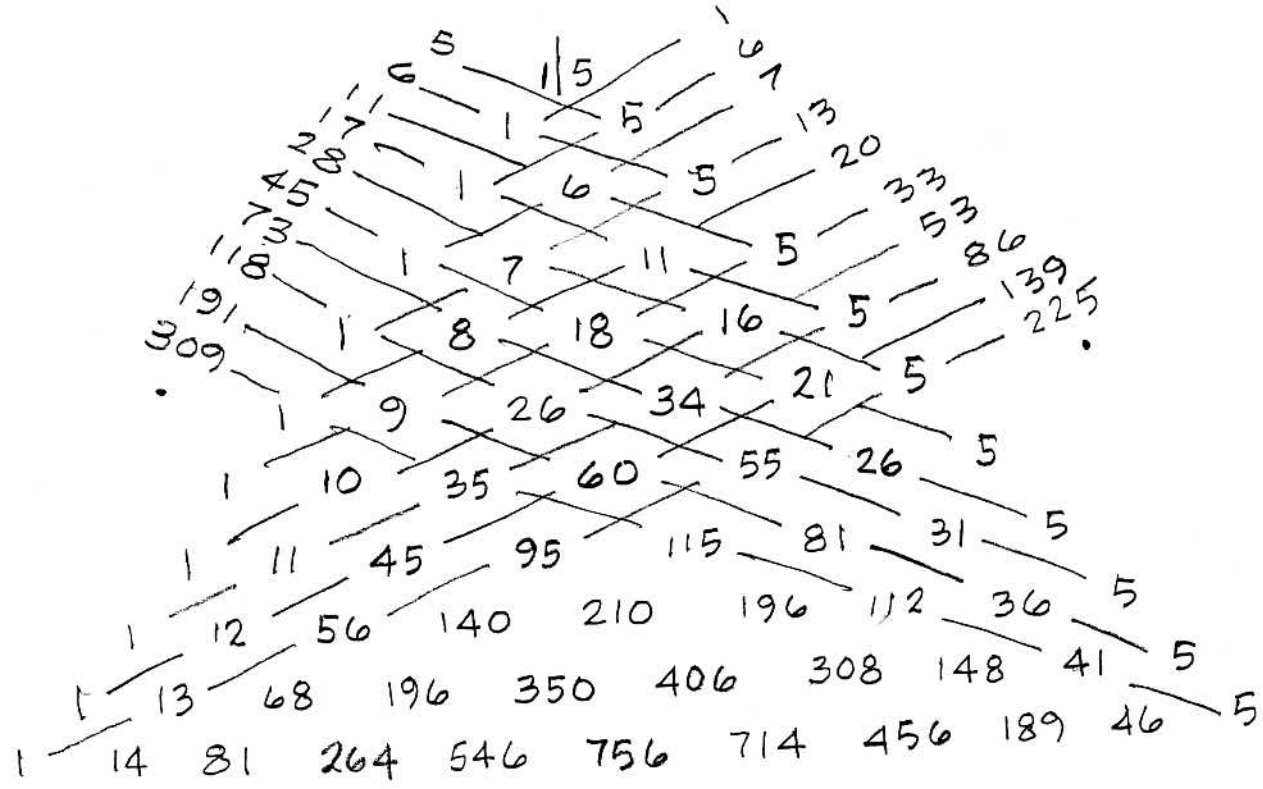
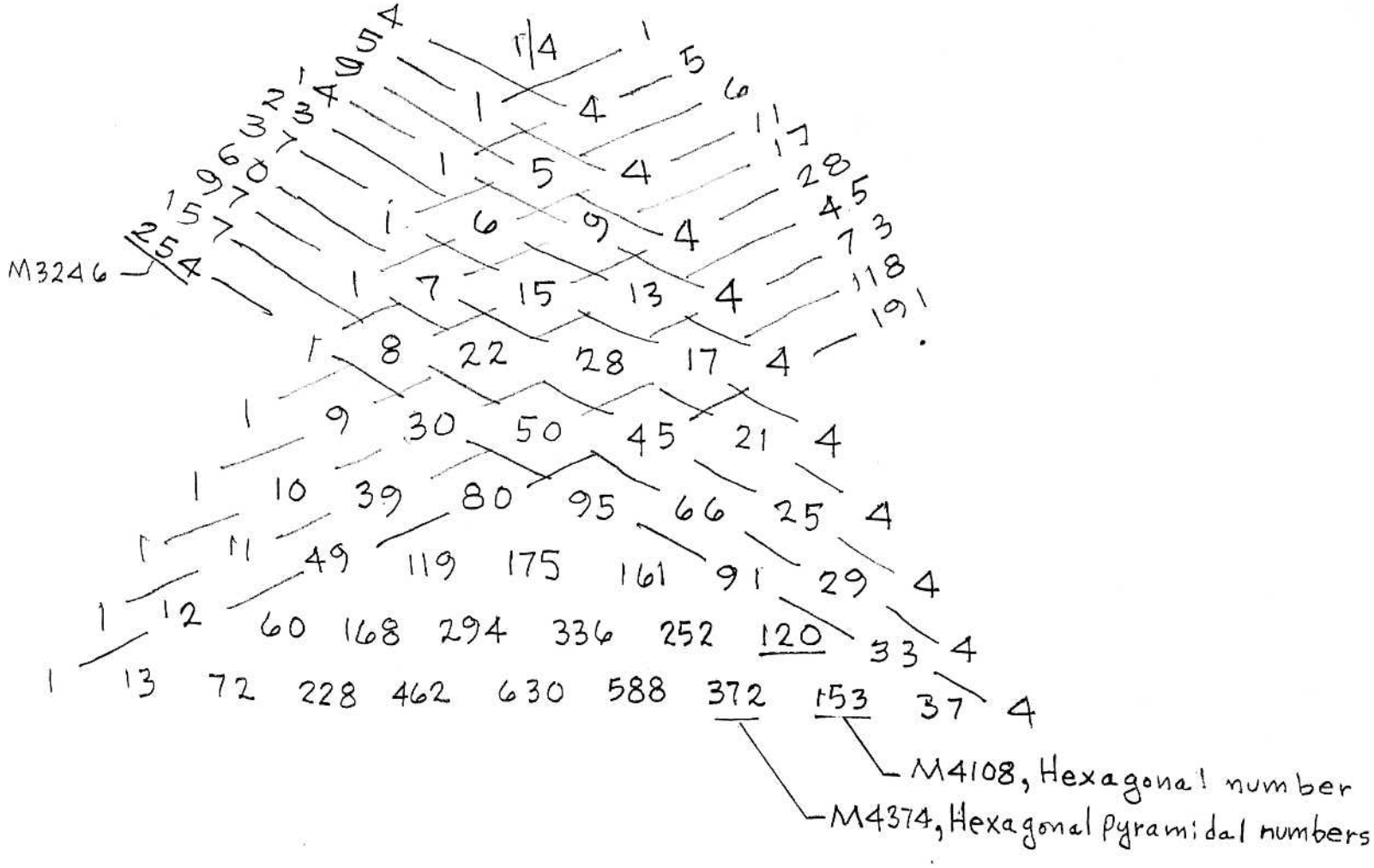
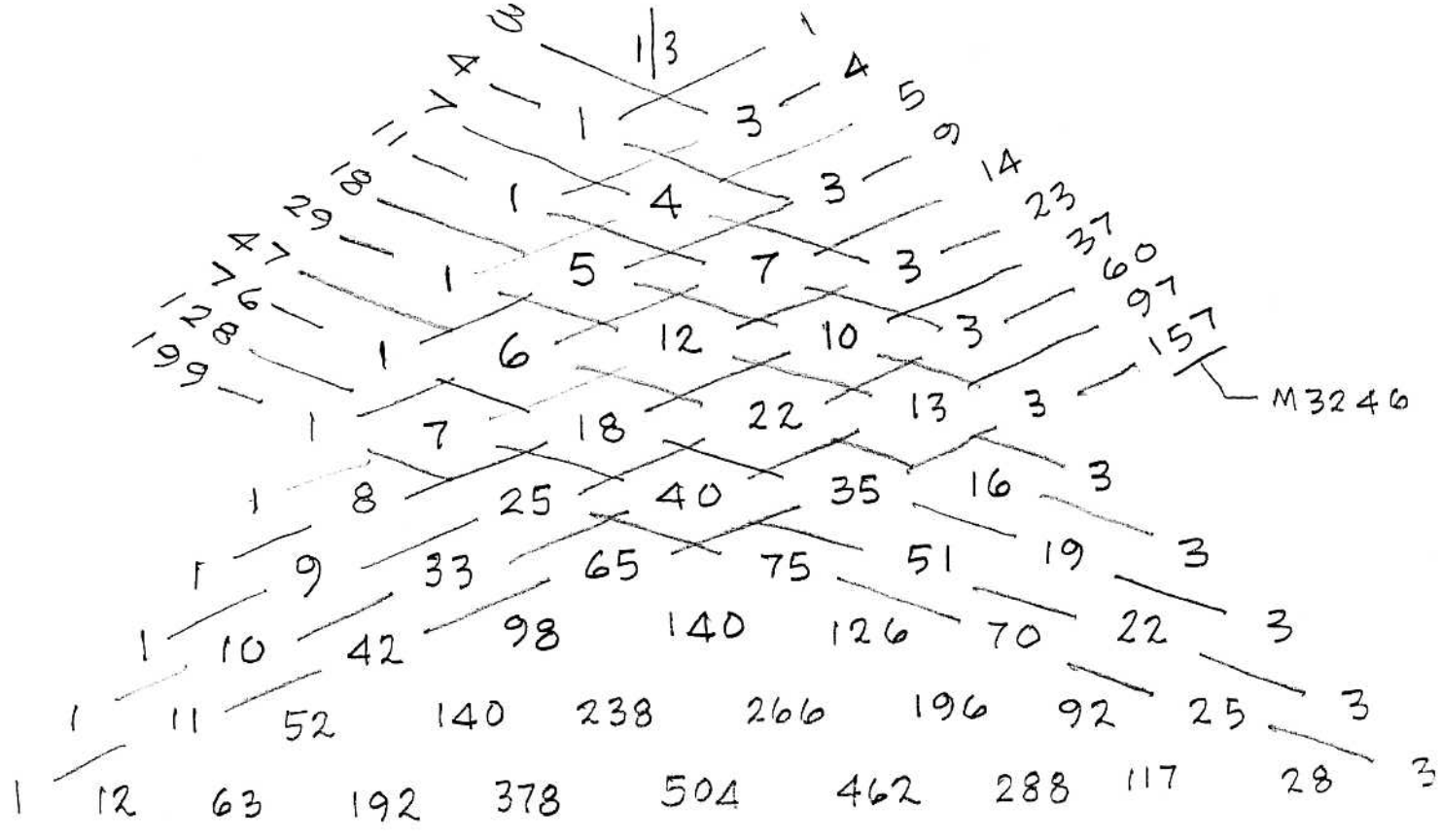

1 14 81 264 546 756 714 456 189 46 5
1 13 68 196 350 406 308 148 41 5
1 12 56 140 210 196 112 36 5
1 11 45 95 115 81 31 5
1 10 35 60 55 26 5
1 9 26 34 21 5
1 8 18 16 5
1 7 11 5
1 6 5
1 5
1
309 191 118 73 45 27 17 11 7 4 2 1 1
225 139 86 53 33 20 13 7 4 2 1 1
5 6 7 8 5 3 8 9 10 11 12 13 14

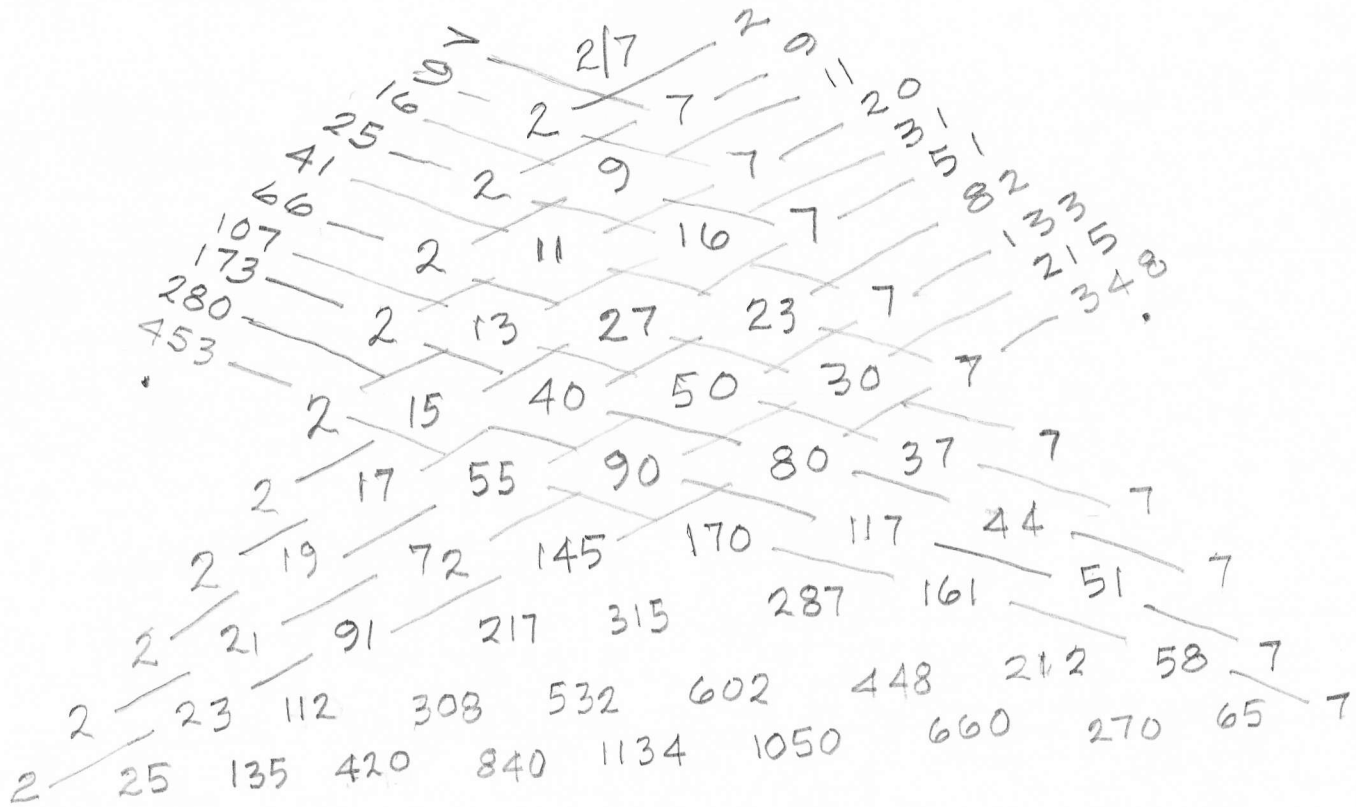
20 Aug 05. EW


M3246
M4108, Hexagonal number
M4374, Hexagonal Pyramidal numbers

17 Aug 05. EW




17 Aug 05. EW
redrawn


7 9 16 25 41 66 107 173 280 453
2 7 2 9 11 20 31 51 82 133 215 348
2 7 2 9 7 16 7 23 7 30 7 37 7 44 7 51 7 58 7 65 7
2 11 16 27 40 50 80 117 161 212 270
2 13 23 55 72 170 287 448 660
2 15 90 145 315 532 1134
2 17 91 217 308 602 1050
2 19 112 420 840
2 21 135
2 23
2 25

20 Aug 05 · EW

8 3/8 3

11 3 8 11

19 3 11 8 14

30 3 14 19 8 25

49 3 17 33 27 8 39

79 3 20 50 60 35 8 64

128 3 23 70 110 95 43 8 103

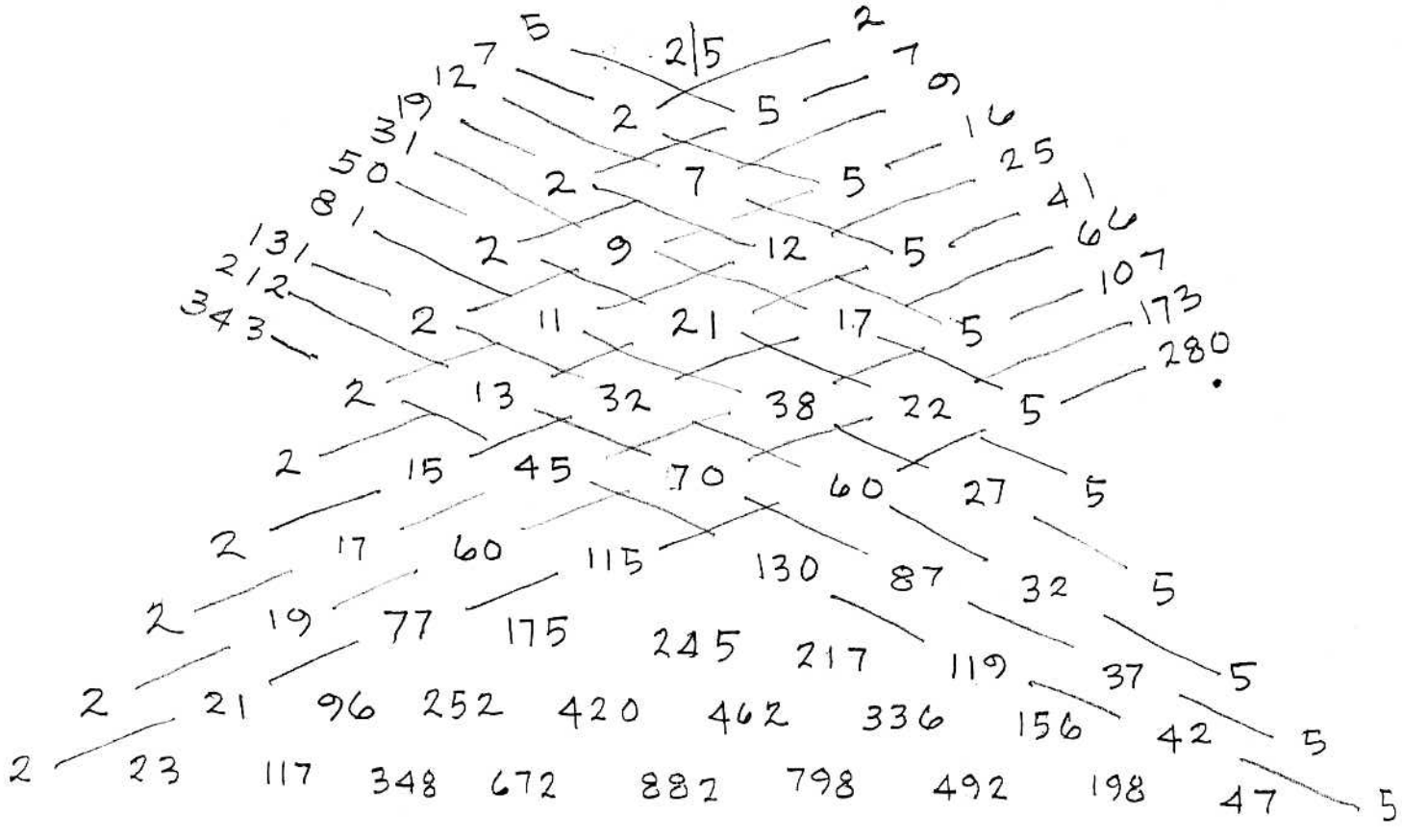
207 3 26 93 180 205 138 51 8 167

335 3 29 119 273 385 343 189 59 8 270

542 3 32 148 392 658 728 532 248 67 8 437

3 35 180 540 1050 1386 1260 780 315 75 8

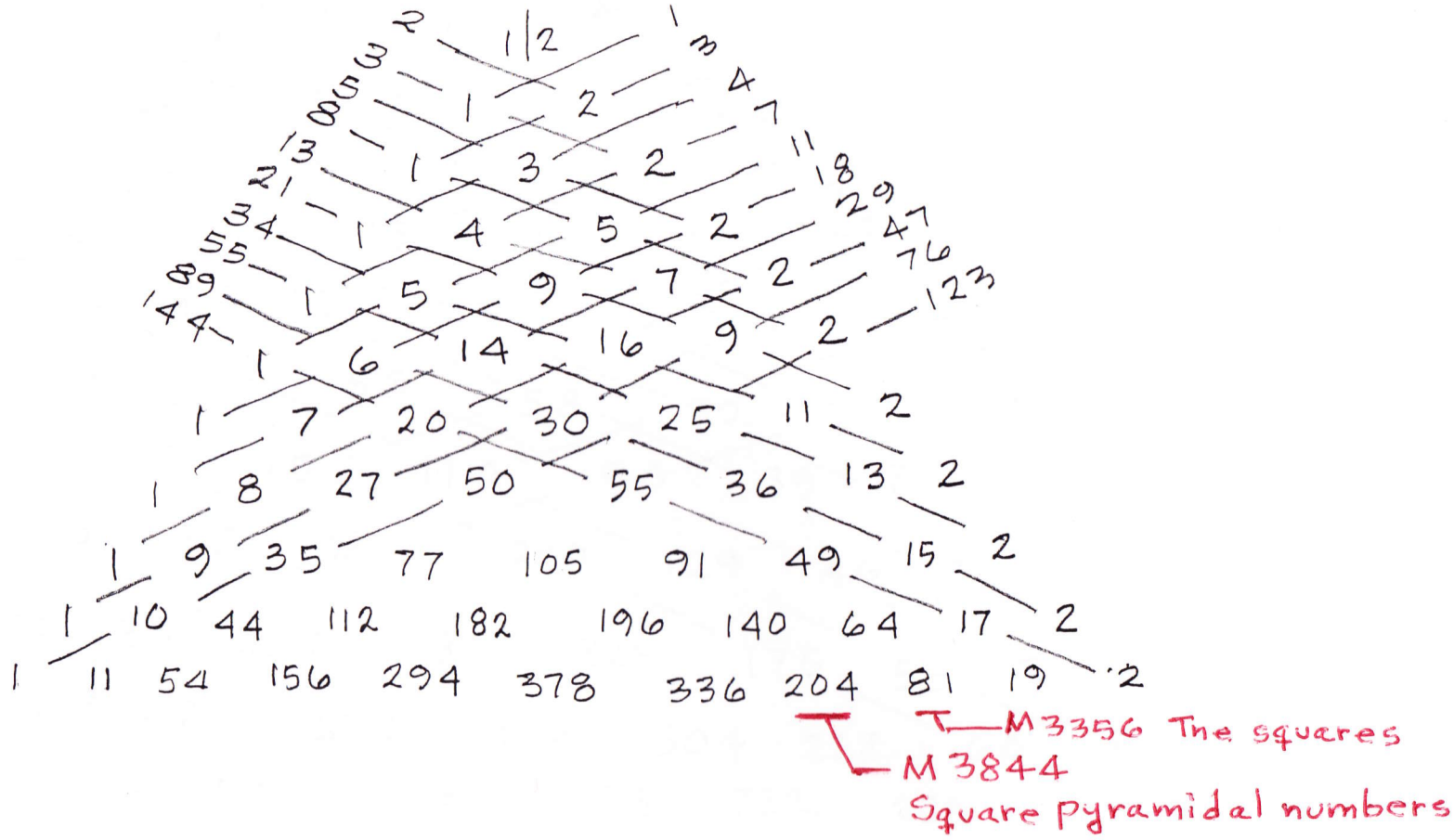
19 Aug 05 · EW


5 2 5 2
7 2 5 7
12 2 7 5 9
19 2 9 12 5 16
31 2 11 21 17 5 25
50 2 13 32 38 22 5 41
81 2 15 45 70 60 27 5 66
131 2 17 60 115 130 87 32 5 107
212 2 19 77 175 245 217 119 37 5 173
343 2 21 96 252 420 462 336 156 42 5 280
2 23 117 348 672 882 798 492 198 47 5

17 Aug 05. EW

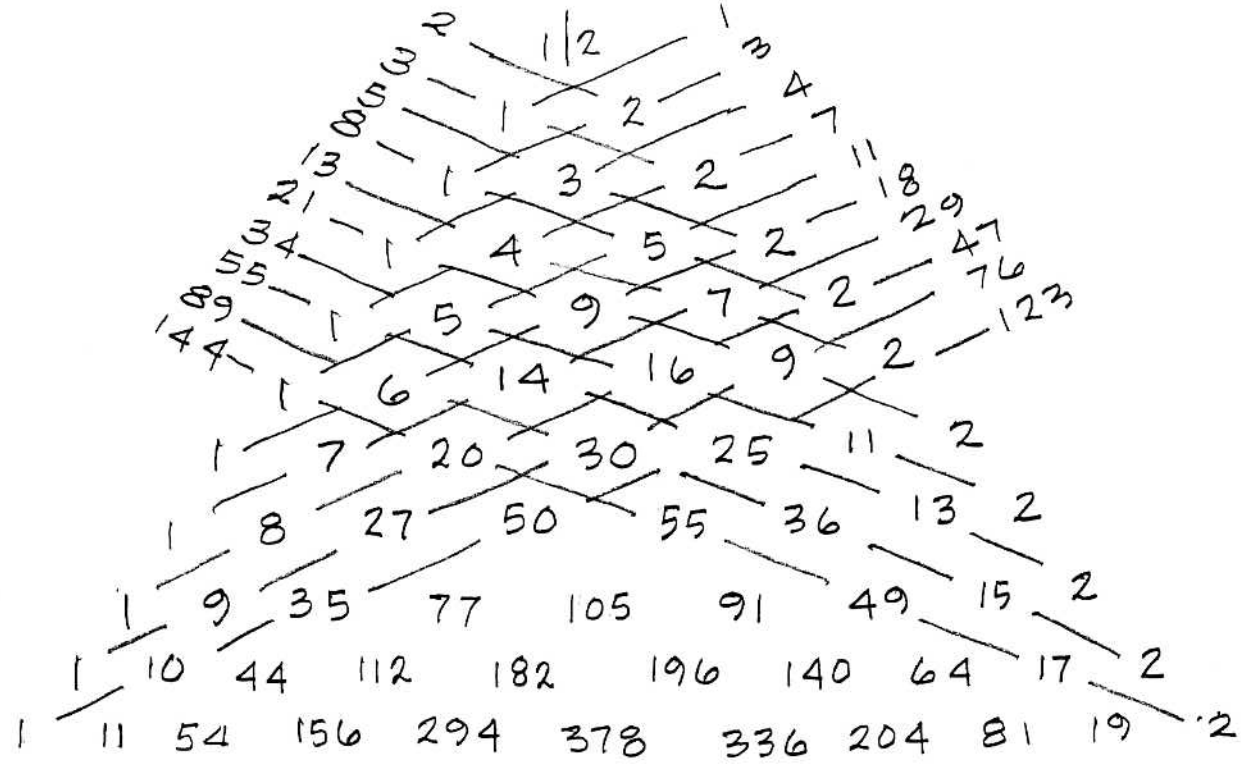
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 7 | | | | | | | | | |
| 3 | 10 | 7 | | | | | | | | |
| 3 | 13 | 17 | 7 | | | | | | | |
| 3 | 16 | 30 | 24 | 7 | | | | | | |
| 3 | 19 | 46 | 54 | 31 | 7 | | | | | |
| 3 | 22 | 65 | 100 | 85 | 38 | 7 | | | | |
| 3 | 25 | 87 | 165 | 185 | 123 | 45 | 7 | | | |
| 3 | 28 | 112 | 252 | 350 | 308 | 168 | 52 | 7 | | |
| 3 | 31 | 140 | 364 | 602 | 658 | 476 | 220 | 59 | 7 | |
| 3 | 34 | 171 | 504 | 966 | 1260 | 1,134 | 696 | 279 | 66 | 7 |

17 Aug 05. EW



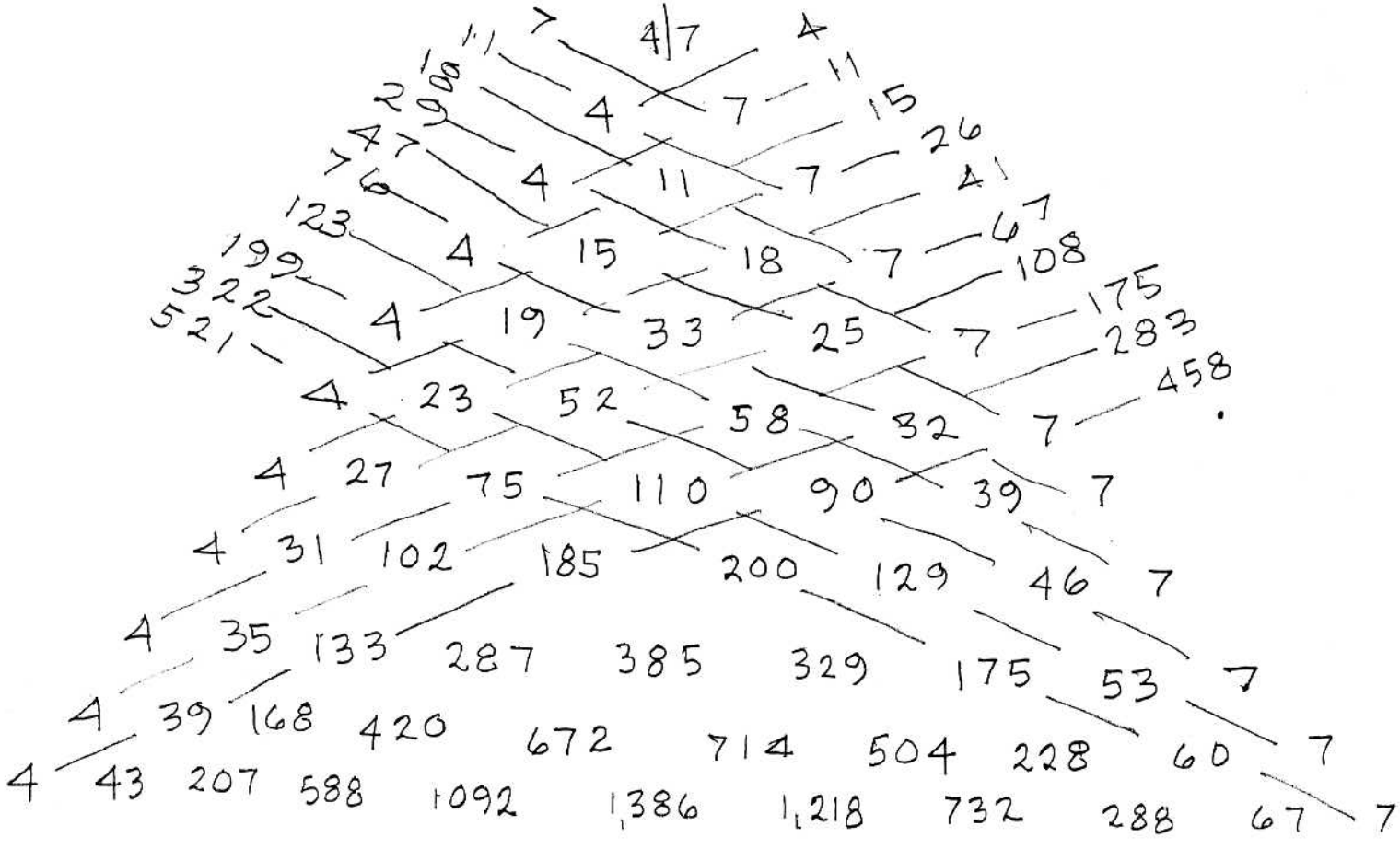

Lucas triangle

20 Aug 05. EW

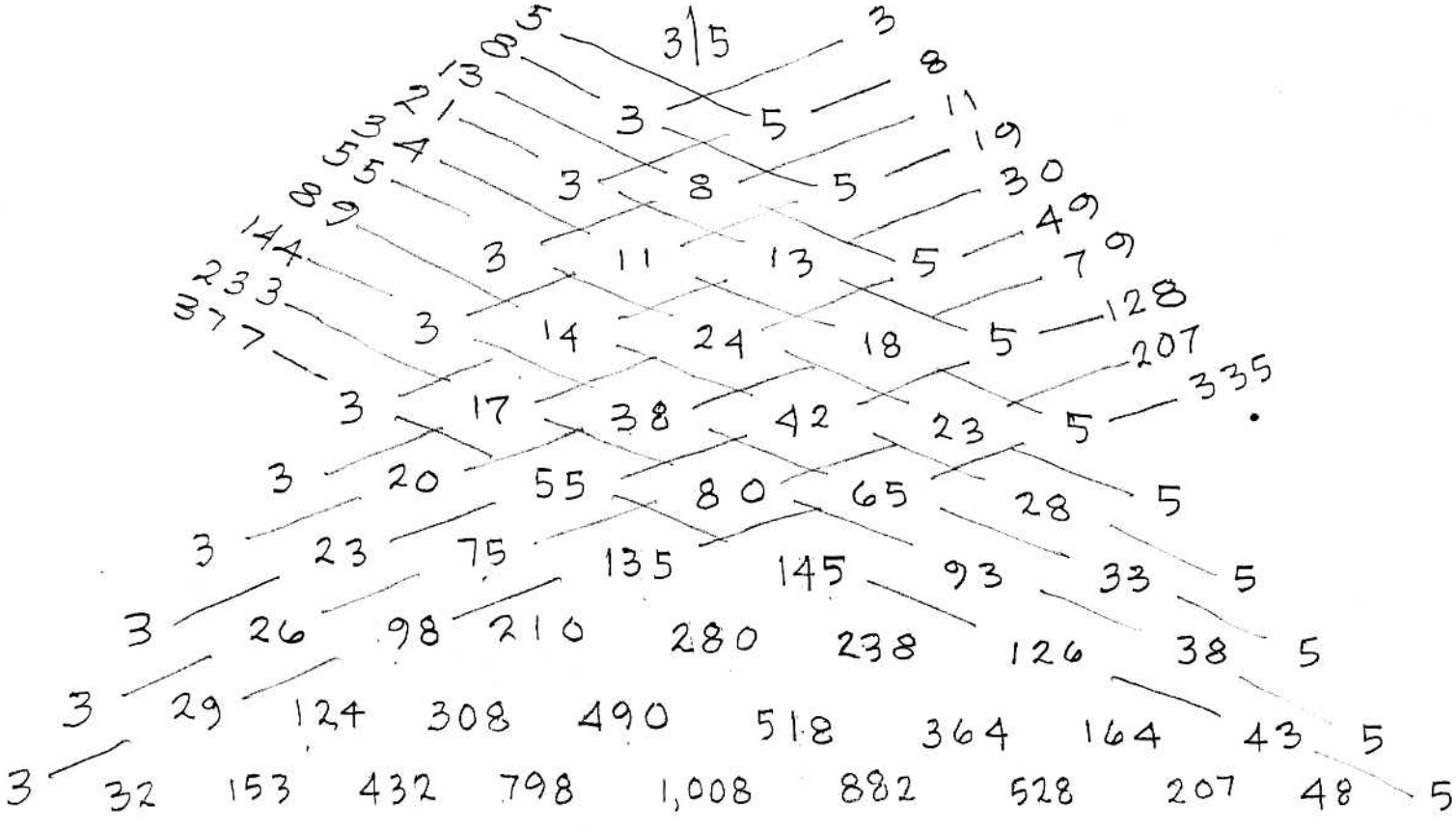



Lucas triangle

20 Aug 05. EW


7 4 7 4
11 4 7 11
18 4 11 7 15
29 4 15 18 7 26
47 4 19 33 25 7 41
76 4 23 52 58 32 7 67
123 4 27 75 110 90 39 7 108
199 4 31 102 185 200 129 46 7 175
322 4 35 133 287 385 329 175 53 7 283
521 4 39 168 420 672 714 504 228 60 7 458
4 43 207 588 1092 1,386 1,218 732 288 67 7

20Aug05·EW


3 5
3 5 8
3 8 11
3 11 19
3 14 30
3 17 49
3 20 79
3 23 128
3 26 207
3 29 335
3 32
5 8 13 21 34 55 89 144 233 377
5 13 21 34 55 89 144 233 377
5 21 34 55 89 144 233 377
5 34 55 89 144 233 377
5 55 89 144 233 377
5 89 144 233 377
5 144 233 377
5 233 377
5 377
3 5 8 11 19 30 49 79 128 207 335
3 8 11 19 30 49 79 128 207 335
3 11 13 18 23 28 33 38 43 48
3 14 24 42 65 93 126 164 207
3 17 38 80 145 238 364 528
3 20 55 135 280 518 882
3 23 75 210 490 798 1,008
3 26 98 308 432
3 29 124 153
3 32

3 *

5 8

5 13 8

5 18 21 8

5 23 39 29 8

5 28 62 68 37 8

5 33 90 130 105 45 8

5 38 123 220 235 150 53 8

5 43 161 343 455 385 203 61 8

5 48 204 504 798 840 588 264 69 8

5 53 252 708 1302 1638 1428 852 333 77 8

5 8 13 21 34 55 89 144 233 377 610

5 8 13 21 34 55 89 144 233 377 610 987

5 8 13 21 34 55 89 144 233 377 610 987 1597

5 8 13 21 34 55 89 144 233 377 610 987 1597 2584

5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181

5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765

5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946

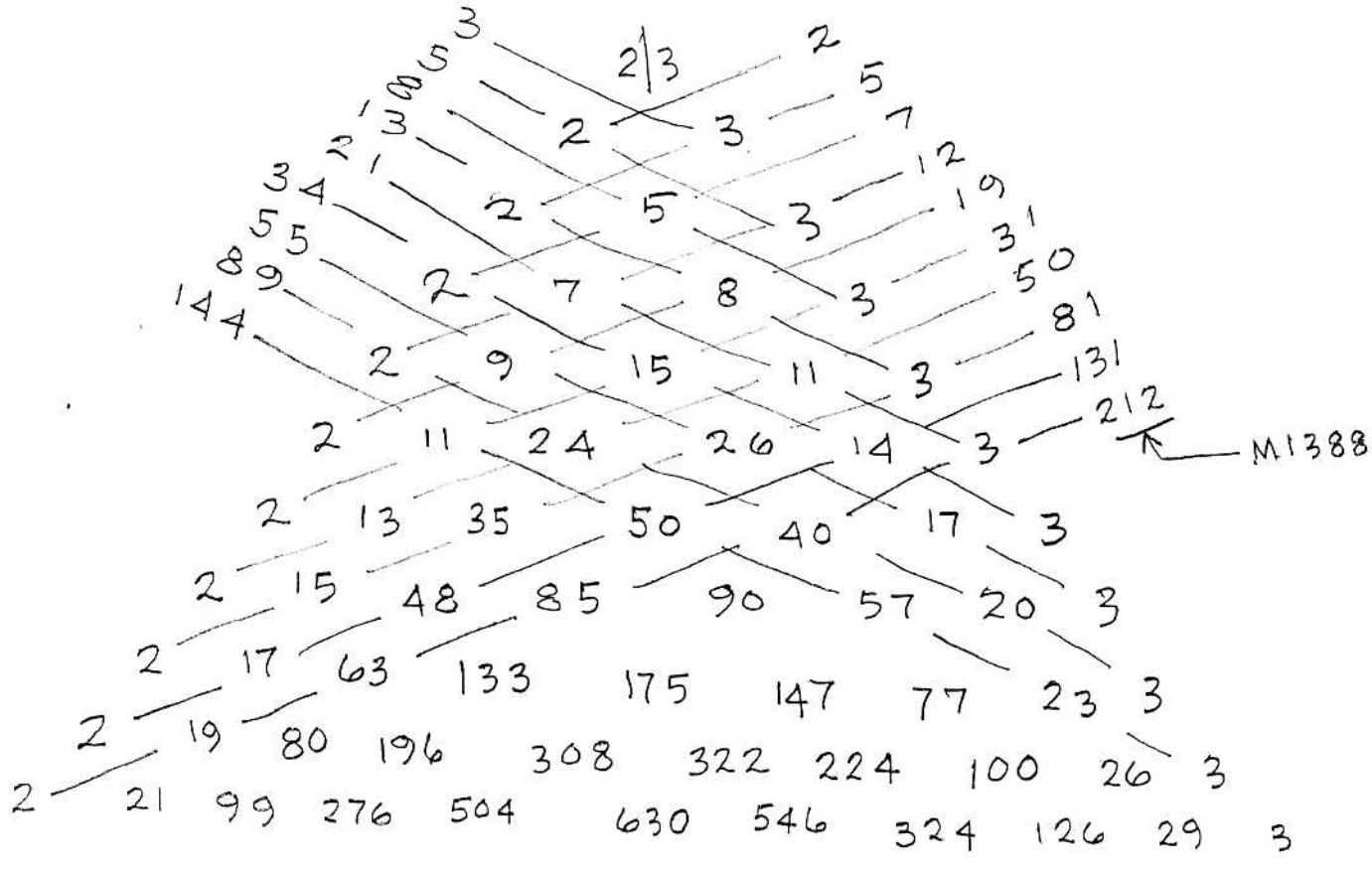
5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946 17711

5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946 17711 28657

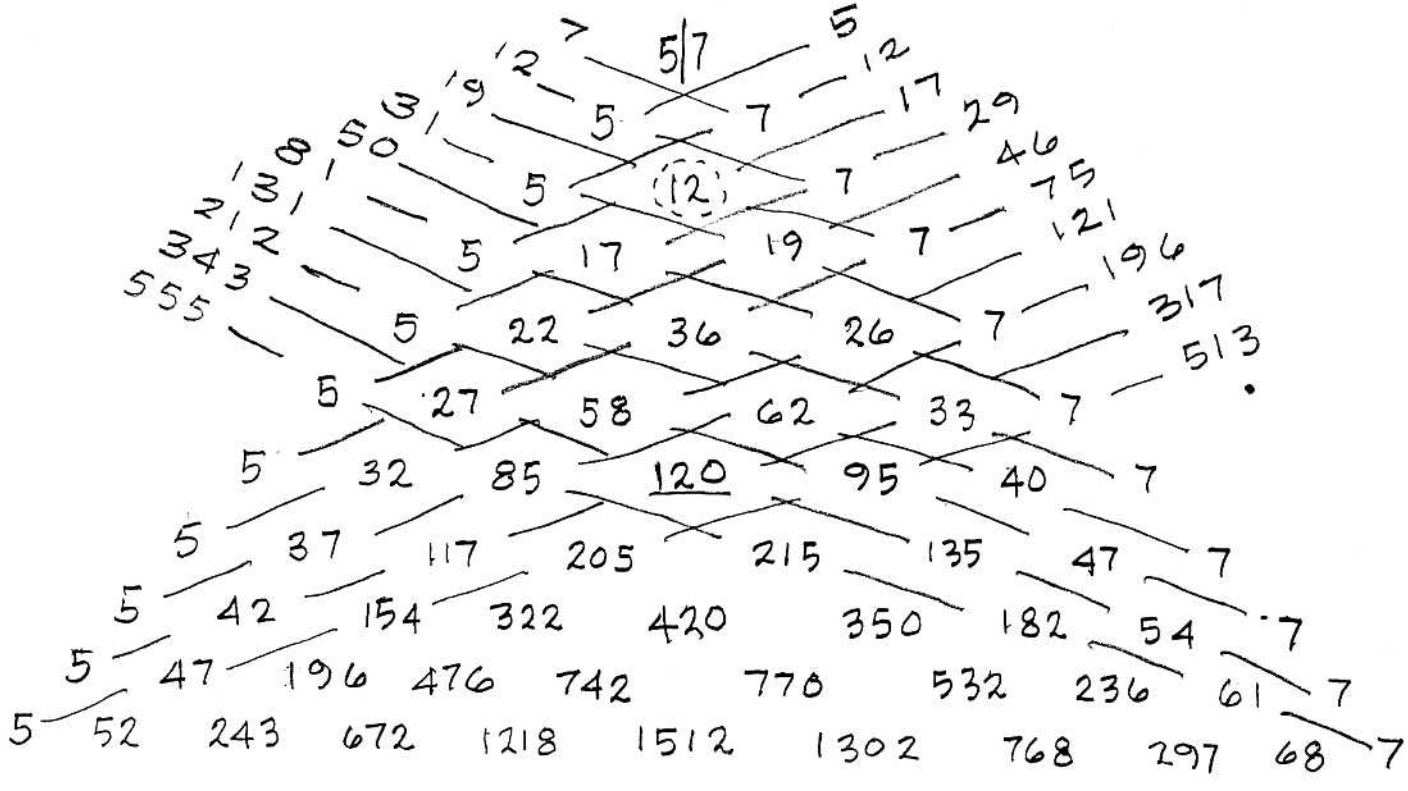
5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946 17711 28657 46368

5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946 17711 28657 46368 75025

19 Aug 2005 · EW


3
2 3
2
5
3
2
7
3
2
5
12
3
2
7
8
19
3
2
9
15
11
31
3
2
11
24
26
14
50
3
2
13
35
50
40
17
81
3
2
15
48
85
90
57
20
131
3
2
17
63
133
175
147
77
23
212
3
2
19
80
196
308
322
224
100
26
3
2
21
99
276
504
630
546
324
126
29
3
M1388

17Aug 05. EW




Note;
To check, add the right wing
To the left wing, and divide by (12).

20 Aug 05. EW

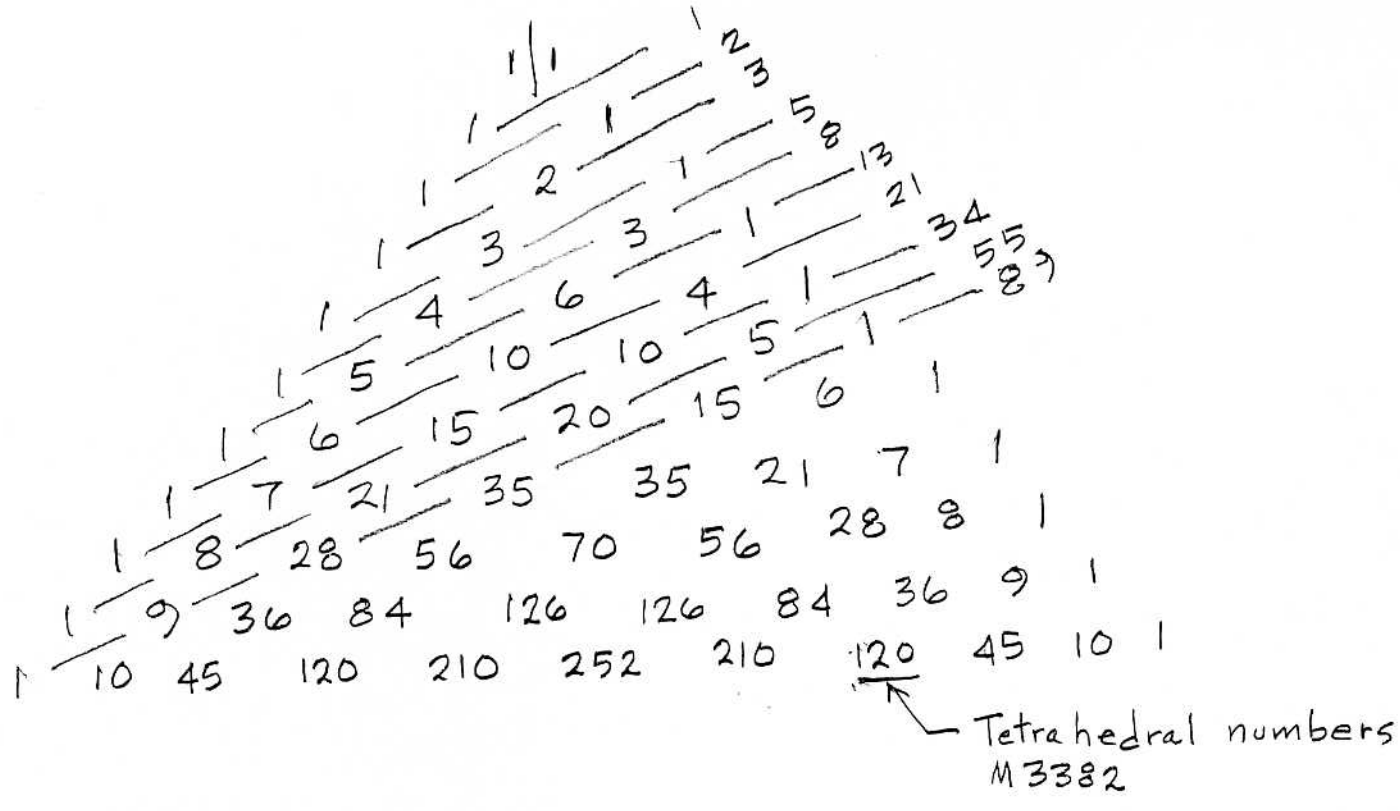
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 4 | | | | | | | | | |
| 3 | 7 | 4 | | | | | | | | |
| 3 | 10 | 11 | 4 | | | | | | | |
| 3 | 13 | 21 | 15 | 4 | | | | | | |
| 3 | 16 | 34 | 36 | 19 | 4 | | | | | |
| 3 | 19 | 50 | 70 | 55 | 23 | 4 | | | | |
| 3 | 22 | 69 | 120 | 125 | 78 | 27 | 4 | | | |
| 3 | 25 | 91 | 189 | 245 | 203 | 105 | 31 | 4 | | |
| 3 | 28 | 116 | 280 | 434 | 448 | 308 | 136 | 35 | 4 | |
| 3 | 31 | 144 | 396 | 714 | 882 | 756 | 444 | 171 | 39 | 4 |

17 Aug 05 · EW

M3246

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | | | | | | | | | |
| 4 | 5 | | | | | | | | | |
| 4 | 9 | 5 | | | | | | | | |
| 4 | 13 | 14 | 5 | | | | | | | |
| 4 | 17 | 27 | 19 | 5 | | | | | | |
| 4 | 21 | 44 | 46 | 24 | 5 | | | | | |
| 4 | 25 | 65 | 90 | 70 | 29 | 5 | | | | |
| 4 | 29 | 90 | 155 | 160 | 99 | 34 | 5 | | | |
| 4 | 33 | 119 | 245 | 315 | 259 | 133 | 39 | 5 | | |
| 4 | 37 | 152 | 364 | 560 | 574 | 392 | 172 | 44 | 5 | |
| 4 | 41 | 189 | 516 | 924 | 1134 | 966 | 564 | 216 | 49 | 5 |

20 Aug 2005. EW


1 1 1 2 3 5 8 13 21 34 55 89
1 1 1 1 2 1 1 3 3 1 1 4 6 4 1 1 5 10 10 5 1 1 6 15 20 15 6 1
1 7 21 35 35 21 7 1
1 8 28 56 70 56 28 8 1
1 9 36 84 126 126 84 36 9 1
1 10 45 120 210 252 210 120 45 10 1
Tetrahedral numbers
M3382

20 Aug 05. EW

10 21

10 21 10

10 21 31

10 31 21 41

10 41 52 21 72

10 51 93 73 21 113

10 61 144 166 94 21 185

10 71 205 310 260 115 21 298

10 81 276 515 570 375 136 21 483

10 91 357 791 1085 945 511 157 21 781

10 101 448 1148 2821 2030 1456 668 178 21 1,264

10 111 549 1596 3969 4851 3486 2124 846 199 21 2,045

10 121 660 2145 5565 8820 8337 5610 2970 1045 220 21 3,309

10 131 781 2805 7710 14385 17157 13947 8580 4015 1265 241 21

10 21 31 52 83 135 218 353 571 924 1,495 2,419 3,914

Gradwy's

1|2

1

1 2

1 1

1 3 2

1 2 1

1 4 3 2

1 3 3 1

1 5 9 7 2

1 4 6 4 1

1 6 14 16 9 2

1 5 10 10 5 1

1 7 20 30 25 11 2

1 6 15 20 15 6 1

1 8 27 50 55 36 13 2

1 7 21 35 35 21 7 1

1 9 35 77 105 91 49 15 2

1 8 28 56 70 56 28 8 1

1 10 44 112 182 196 140 64 17 2

1 9 36 84 126 126 84 36 9 1

1 11 54 156 294 378 336 204 81 19 2

1 10 45 120 210 252 210 120 45 10 1

1 12 65 210 450 672 714 540 285 100 21 2

1 11 55 165 330 462 462 330 165 55 11 1

1 13 77 275 660 1122 1386 1254 825 385 121 23 2

1 12 66 220 495 792 924 792 495 220 66 12 1

1 14 90 352 935 1782 2508 2640 2079 1210 506 144 25 2

1 13 78 286 715 1287 1716 1716 1287 715 286 78 13 1

1 15 104 442 1287 2717 4290 5148 4719 3289 1716 650 169 27 2

1 14 91 364 1001 2002 3003 3432 3003 2002 1001 364 91 14 1

1 16 119 546 1729 4004 7007 9438 9867 8008 5005 2366 819 196 29 2

1 15 105 455 1365 3003 5005 6435 6435 5005 3003 1365 455 105 15 1

1 17 135 665 2275 5733 11011 16445 19305 17875 13013 7371 3185 1015 225 31 2

1 16 120 560 1820 4368 8008 11440 12870 11440 8008 4368 1820 560 120 16 1

22 Jun 05 · EW

22 Jun 05 · EW

# "Lucas" Triangle

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1 2 1 3 4 7 11 18 29 47 76 123 199 322 521 843 1364 2207

1 2 1 3 2 4 5 2 7 9 7 2 11 14 16 9 2 18 20 30 25 11 2 29 35 55 55 36 13 2 47 65 90 91 64 17 2 76 100 144 140 81 19 2 123 156 225 204 121 23 2 199 256 369 336 285 144 25 2 322 412 594 540 406 229 27 2 521 668 963 876 691 373 169 29 2 843 1081 1557 1416 1117 602 196 31 2

1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1,597 2,584

1 1 2 1 3 2 1 4 5 2 1 5 9 7 2 1 6 14 16 9 2 1 7 20 30 25 11 2 1 8 27 50 55 36 13 2 1 9 35 77 105 91 49 15 2 1 10 44 112 182 196 140 64 17 2 1 11 54 156 294 378 336 204 81 19 2 1 12 65 210 450 672 714 540 285 100 21 2 1 13 77 275 660 1122 1386 1254 825 385 121 23 2 1 14 90 352 935 1782 2508 2640 2079 1210 506 144 25 2 1 15 104 442 1287 2717 4290 5148 4719 3289 1716 650 169 27 2 1 16 119 546 1729 4004 7007 9438 9867 8008 5005 2366 819 196 29 2 1 17 135 665 2275 5733 11011 16445 19305 17875 13013 7371 3185 1015 225 31 2

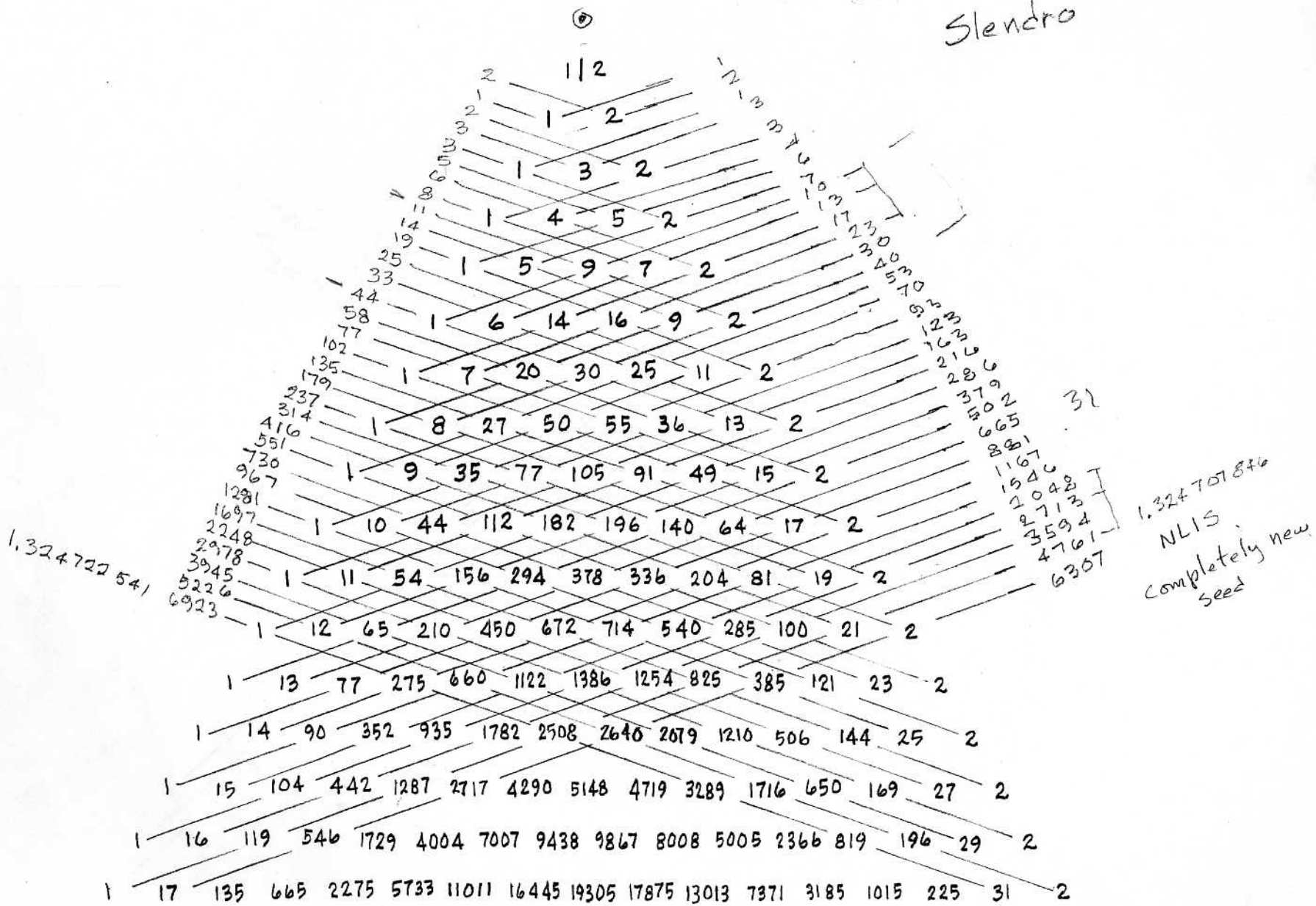
M2341 Lucas series

22 June 05 · EW

# "Lucas" Triangle"

See M0284
$a(n) = a(n-2) + a(n-3)$

Slendro



Pélog

1.465408805

Sloane M0648

1.465863454

NLIS

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | | | | | | | | | | | | | |
| 1 | 3 | 2 | | | | | | | | | | | | | |
| 1 | 4 | 5 | 2 | | | | | | | | | | | | |
| 1 | 5 | 9 | 7 | 2 | | | | | | | | | | | |
| 1 | 6 | 14 | 16 | 9 | 2 | | | | | | | | | | |
| 1 | 7 | 20 | 30 | 25 | 11 | 2 | | | | | | | | | |
| 1 | 8 | 27 | 50 | 55 | 36 | 13 | 2 | | | | | | | | |
| 1 | 9 | 35 | 77 | 105 | 91 | 49 | 15 | 2 | | | | | | | |
| 1 | 10 | 44 | 112 | 182 | 196 | 140 | 64 | 17 | 2 | | | | | | |
| 1 | 11 | 54 | 156 | 294 | 378 | 336 | 204 | 81 | 19 | 2 | | | | | |
| 1 | 12 | 65 | 210 | 450 | 672 | 714 | 540 | 285 | 100 | 21 | 2 | | | | |
| 1 | 13 | 77 | 275 | 660 | 1122 | 1386 | 1254 | 825 | 385 | 121 | 23 | 2 | | | |
| 1 | 14 | 90 | 352 | 935 | 1782 | 2508 | 2640 | 2079 | 1210 | 506 | 144 | 25 | 2 | | |
| 1 | 15 | 104 | 442 | 1287 | 2717 | 4290 | 5148 | 4719 | 3289 | 1716 | 650 | 169 | 27 | 2 | |
| 1 | 16 | 119 | 546 | 1729 | 4004 | 7007 | 9438 | 9867 | 8008 | 5005 | 2366 | 819 | 196 | 29 | 2 |
| 1 | 17 | 135 | 665 | 2275 | 5733 | 11011 | 16445 | 19305 | 17875 | 13013 | 7371 | 3185 | 1015 | 225 | 31 | 2 |

# The Φ-interval between 2 parallel Φ-Slendro sequences

© by Eru Wilson (dated Dec 19, 1995)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | ① | ② | ③ | | | | | | |
| | | | | | | | | | | | | | | | | | | 9 | 12 | 16 | 21 | 28 | 37 | 49 |
| | | | | | | | | | | | | | | | A | B | T | C | $A_1$ | | | | | |
| 0 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 7 | 9 | 12 | 16 | 21 | 28 | 37 | 49 | 65 | 86 | 114 | 151 | 200 | 265 | | |
| 0 | 2 | 1 | 2 | 3 | 3 | 5 | 6 | 8 | 11 | 14 | 19 | 25 | 33 | 44 | 58 | 77 | 102 | 135 | 179 | 237 | 314 | | | |
| | | | | | | | | | | | | | D | E | F | $E_1$ | | | | | | | | |

| | | |
|---|---|---|
| 151 | 179 | |
| 200 | 237 | |
| 265 | 314 | |
| 351 | 416 | 1.185185185 |
| 465 | 551 | 1.184946237 |
| 616 | 730 | 1.185064935 |
| 816 | 967 | 1.185049020 |
| 1,081 | 1,281 | 1.185013876 |
| 1,432 | 1,697 | 1.185055866 |
| 1,897 | 2,248 | 1.185028993 |
| 2,513 | 2,978 | 1.185037803 |
| 3,329 | 3,945 | 1.185040553 |
| 4,410 | 5,226 | 1.185034014 |
| 5,842 | 6,923 | 1.185039370 |
| 7,739 | 9,171 | 1.185036826 |
| 10,252 | 12,149 | 1.185037066 |
| 13,581 | 16,094 | 1.185037921 |
| 17,991 | 21,320 | 1.185036963 |
| 23,833 | 28,243 | 1.185037553 |
| 31,572 | 37,414 | 1.185037375 |
| 41,824 | 49,563 | 1.185037299 ← |
| 55,405 | 65,657 | 1.185037451 |
| 73,396 | 86,977 | 1.185037332 |
| 97,229 | 115,220 | 1.185037386 |
| 128,801 | 152,634 | 1.185037383 |
| 170,625 | 202,197 | 1.185037363 |
| 226,030 | 267,854 | 1.185037384 |
| 299,426 | 354,831 | 1.185037372 |
| 396,655 | 470,051 | 1.185037375 |

| | | |
|---|---|---|
| (396,655 | 470,051 | 1.185037375) |
| 525,456 | 622,685 | 1.185037377 |
| 696,081 | 824,882 | 1.18503737352 |
| 922,111 | 1,092,736 | 1.18503737619 |
| 1,221,537 | 1,447,567 | 1.18503737504 |
| 1,618,192 | 1,917,618 | 1.18503737505 |
| 2,143,648 | 2,540,303 | 1.18503737554 |
| 2,839,729 | 3,365,185 | 1.18503737505 |
| 3,761,840 | 4,457,921 | 1.18503737533 |
| 4,983,377 | 5,905,488 | 1.18503737526 |
| 6,601,569 | 7,823,106 | 1.18503737521 |
| 8,745,217 | 10,363,409 | 1.18503737529 |
| 11,584,946 | 13,728,594 | 1.18503737523 |
| 15,346,786 | 18,186,515 | 1.18503737525 |
| 20,330,163 | 24,092,003 | 1.18503737525 |
| 26,931,732 | 31,915,109 | 1.18503737524 |
| 35,676,949 | 42,278,518 | 1.18503737525 |
| 47,261,895 | 56,007,112 | 1.18503737525 |
| 62,608,681 | 74,193,627 | 1.18503737525 |

| | | |
|---|---|---|
| 1/x pattern | | Log2 .24493256 1434 |
| 4 | .082 | 0/1 |
| 12 | .083 | |
| 11 | .954 | |
| 1 | .047 | |
| 21 | .201 | |
| 4 | .962 | |
| 1 | .039 | |
| 25 | .376 | |

1/1 1/2 1/3 1/4 1/5 2/9 3/13 4/17 5/21 6/27 7/29 8/33 9/37 10/41 11/45 12/49 13/53 25/102