

Different Types of Magic Squares of Order 14

*Pdf file of 3354 magic squares of order 14
is available at author's sites:
<https://numbers-magic.com/?p=2640>*

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Abstract

*It is revised version of author's previous work [44]. It brings new ideas of construction of magic squares. This work is for the order 14. The new ideas used to bring these magic square are: **bordered magic rectangles, bordered double digits magic rectangles, cornered magic rectangles, striped magic rectangles**, etc. When the length and width are equal these becomes as magic squares. Another idea used is of algebraic formula $(a + b)^2$. Here we consider small blocks of magic squares and magic rectangles, such as a^2 , b^2 , $a \times b$ and $b \times a$. These are available as pdf file at author's site, whose links are given above. For previous works of orders 6, 8, 10 and 12 refer Taneja[3, 4, 44]*

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1 Introduction

In this work, we shall bring magic squares of orders 6, 8, 10 and 12. There are written in different styles and designs. Moreover, these are based on different kinds of new aspects of magic rectangles. These includes:

- (i) Bordered Magic Rectangles.
- (ii) Bordered Double Digits Magic Rectangles.
- (iii) Cornered Magic Rectangles.
- (iv) Striped Magic Rectangles.

(v) Algebraic Formula Type $(a + b)^2$.

The above items are not known in the literature of magic squares. These are author's recent ideas in construction of magic squares. Let's understand one by one the above 5-items.

1.1 Bordered Magic Rectangle

Bordered magic squares are well known in the literature. See below an example of **bordered magic square** of order 10.

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | | 505 |
| 91 | 84 | 86 | 98 | 18 | 16 | 14 | 4 | 2 | 92 | 505 |
| 13 | 26 | 20 | 80 | 82 | 69 | 31 | 71 | 25 | 88 | 505 |
| 11 | 23 | 64 | 62 | 35 | 68 | 36 | 38 | 78 | 90 | 505 |
| 7 | 24 | 34 | 49 | 54 | 43 | 56 | 67 | 77 | 94 | 505 |
| 1 | 29 | 40 | 44 | 55 | 50 | 53 | 61 | 72 | 100 | 505 |
| 89 | 79 | 42 | 58 | 45 | 52 | 47 | 59 | 22 | 12 | 505 |
| 93 | 74 | 60 | 51 | 48 | 57 | 46 | 41 | 27 | 8 | 505 |
| 95 | 73 | 63 | 39 | 66 | 33 | 65 | 37 | 28 | 6 | 505 |
| 96 | 76 | 81 | 21 | 19 | 32 | 70 | 30 | 75 | 5 | 505 |
| 9 | 17 | 15 | 3 | 83 | 85 | 87 | 97 | 99 | 10 | 505 |
| 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 |

Bordered magic rectangles are not very well known in the literature. See below two examples:

Example 1. Below are two examples of **bordered magic rectangle** of orders 6×10 and 8×10

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 56 | 2 | 14 | 49 | 8 | 6 | 54 | 58 | 48 | 305 | 7 | 4 | 9 | 80 | 78 | 69 | 65 | 14 | 68 | 11 | 405 |
| 57 | 43 | 16 | 24 | 20 | 17 | 46 | 38 | 40 | 4 | 305 | 76 | 26 | 19 | 63 | 17 | 60 | 54 | 61 | 24 | 5 | 405 |
| 1 | 19 | 32 | 31 | 35 | 25 | 33 | 27 | 42 | 60 | 305 | 8 | 23 | 51 | 35 | 48 | 29 | 31 | 49 | 58 | 73 | 405 |
| 50 | 39 | 29 | 30 | 26 | 36 | 28 | 34 | 22 | 11 | 305 | 75 | 53 | 34 | 42 | 40 | 37 | 43 | 47 | 28 | 6 | 405 |
| 52 | 21 | 45 | 37 | 41 | 44 | 15 | 23 | 18 | 9 | 305 | 2 | 59 | 45 | 39 | 41 | 44 | 38 | 36 | 22 | 79 | 405 |
| 13 | 5 | 59 | 47 | 12 | 53 | 55 | 7 | 3 | 51 | 305 | 15 | 25 | 32 | 46 | 33 | 52 | 50 | 30 | 56 | 66 | 405 |
| 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | | 71 | 57 | 62 | 18 | 64 | 21 | 27 | 20 | 55 | 10 | 405 |
| | | | | | | | | | | | 70 | 77 | 72 | 1 | 3 | 12 | 16 | 67 | 13 | 74 | 405 |
| | | | | | | | | | | | 324 | 324 | 324 | 324 | 324 | 324 | 324 | 324 | 324 | 324 | 324 |

These are known as single digit **bordered** magic rectangles. More **bordered magic rectangles** of similar kind can be constructed using H. White's [1] software. The idea of this work is to use similar kind of small **bordered magic rectangles** to bring magic squares. See below two examples of orders 6 and 10:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | 111 | | | | | | | 260 | | |
| 24 | 17 | 22 | 16 | 14 | 18 | 111 | 19 | 16 | 52 | 45 | 48 | 15 | 39 | 26 | 260 |
| 7 | 31 | 5 | 33 | 34 | 1 | 111 | 47 | 23 | 41 | 44 | 22 | 18 | 28 | 37 | 260 |
| 29 | 27 | 9 | 12 | 26 | 8 | 111 | 14 | 42 | 24 | 21 | 43 | 51 | 38 | 27 | 260 |
| 2 | 10 | 28 | 25 | 11 | 35 | 111 | 50 | 49 | 13 | 20 | 17 | 46 | 25 | 40 | 260 |
| 36 | 6 | 32 | 4 | 3 | 30 | 111 | 34 | 31 | 3 | 64 | 4 | 60 | 57 | 7 | 260 |
| 13 | 20 | 15 | 21 | 23 | 19 | 111 | 35 | 30 | 6 | 11 | 56 | 53 | 10 | 59 | 260 |
| 111 | 111 | 111 | 111 | 111 | 111 | 111 | 29 | 36 | 63 | 54 | 9 | 12 | 55 | 2 | 260 |
| | | | | | | | 32 | 33 | 58 | 1 | 61 | 5 | 8 | 62 | 260 |
| | | | | | | | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 |

1.2 Bordered Double Digits Magic Rectangles

Above we explained above the bordered magic rectangles are of single digit borders. Here we shall bring double digits bordered magic rectangles. See below few examples.

Example 2. Below is an example of *double digit bordered magic rectangle* of order 6×14 :

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 11 | 8 | 7 | 71 | 5 | 70 | 69 | 73 | 84 | 23 | 26 | 63 | 13 | 72 | 595 |
| 74 | 77 | 78 | 14 | 80 | 15 | 16 | 12 | 1 | 62 | 59 | 22 | 76 | 9 | 595 |
| 66 | 19 | 52 | 42 | 50 | 40 | 41 | 47 | 34 | 37 | 36 | 46 | 24 | 61 | 595 |
| 65 | 20 | 33 | 43 | 35 | 45 | 44 | 38 | 51 | 48 | 49 | 39 | 57 | 28 | 595 |
| 10 | 75 | 81 | 27 | 68 | 67 | 21 | 53 | 30 | 3 | 25 | 2 | 79 | 54 | 595 |
| 29 | 56 | 4 | 58 | 17 | 18 | 64 | 32 | 55 | 82 | 60 | 83 | 6 | 31 | 595 |
| 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |

The magic rectangle of width 2 are of equal sums. See below:

Based on same idea below are two different ways of writing magic square of order 8.

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | | 260 | | | | | | | | | 260 |
| 3 | 1 | 63 | 61 | 60 | 58 | 8 | 6 | 260 | 12 | 57 | 56 | 4 | 2 | 64 | 46 | 19 | 260 |
| 62 | 64 | 2 | 4 | 5 | 7 | 57 | 59 | 260 | 53 | 8 | 9 | 61 | 63 | 1 | 47 | 18 | 260 |
| 17 | 48 | 31 | 36 | 25 | 38 | 21 | 44 | 260 | 14 | 51 | 31 | 36 | 25 | 38 | 59 | 6 | 260 |
| 20 | 45 | 26 | 37 | 32 | 35 | 24 | 41 | 260 | 50 | 15 | 26 | 37 | 32 | 35 | 5 | 60 | 260 |
| 47 | 18 | 40 | 27 | 34 | 29 | 43 | 22 | 260 | 48 | 17 | 40 | 27 | 34 | 29 | 16 | 49 | 260 |
| 46 | 19 | 33 | 30 | 39 | 28 | 42 | 23 | 260 | 62 | 3 | 33 | 30 | 39 | 28 | 22 | 43 | 260 |
| 53 | 55 | 9 | 11 | 16 | 14 | 50 | 52 | 260 | 11 | 54 | 45 | 44 | 24 | 23 | 52 | 7 | 260 |
| 12 | 10 | 56 | 54 | 49 | 51 | 15 | 13 | 260 | 10 | 55 | 20 | 21 | 41 | 42 | 13 | 58 | 260 |
| 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 |

1.3 Cornered Magic Rectangles

Above we explained **bordered magic rectangles** in two different ways. One with single digits borders and another with double digit borders. Here we shall bring idea of cornered magic rectangles. We shall use same idea of equal sums double digits as in case of bordered double digits but in a little different aspect. See below two examples.

Example 4. Below is an example of *cornered magic rectangle* of order 6×10 :

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 32 | 33 | 31 | 27 | 35 | 25 | 17 | 44 | 51 | 10 | 305 |
| 29 | 28 | 30 | 34 | 26 | 36 | 39 | 22 | 12 | 49 | 305 |
| 16 | 23 | 21 | 18 | 37 | 42 | 46 | 41 | 50 | 11 | 305 |
| 45 | 38 | 40 | 43 | 24 | 19 | 20 | 15 | 2 | 59 | 305 |
| 58 | 1 | 13 | 55 | 4 | 9 | 8 | 56 | 54 | 47 | 305 |
| 3 | 60 | 48 | 6 | 57 | 52 | 53 | 5 | 14 | 7 | 305 |
| 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | 183 | |
| 32 | 33 | 31 | 27 | 35 | 25 | 17 | 44 | 244 | | |
| 29 | 28 | 30 | 34 | 26 | 36 | 39 | 22 | 244 | | |
| 16 | 23 | 21 | 18 | 37 | 42 | 46 | 41 | 244 | | |
| 45 | 38 | 40 | 43 | 24 | 19 | 20 | 15 | 244 | | |
| 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | | | |
| 32 | 33 | 31 | 27 | 35 | 25 | 183 | | | | |
| 29 | 28 | 30 | 34 | 26 | 36 | 183 | | | | |
| 61 | 61 | 61 | 61 | 61 | 61 | | | | | |

Example 5. Below is an example of cornered magic rectangle of order 10×18 :

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|
| 86 | 94 | 88 | 81 | 96 | 82 | 98 | 92 | 97 | 91 | 104 | 77 | 115 | 66 | 148 | 33 | 157 | 24 | 1629 |
| 95 | 87 | 93 | 100 | 85 | 99 | 83 | 89 | 84 | 90 | 74 | 107 | 62 | 119 | 34 | 147 | 168 | 13 | 1629 |
| 112 | 113 | 70 | 72 | 101 | 71 | 73 | 75 | 78 | 114 | 105 | 102 | 117 | 64 | 154 | 27 | 6 | 175 | 1629 |
| 69 | 68 | 111 | 109 | 80 | 110 | 108 | 106 | 103 | 67 | 79 | 76 | 128 | 53 | 31 | 150 | 22 | 159 | 1629 |
| 129 | 59 | 55 | 130 | 124 | 120 | 65 | 54 | 49 | 50 | 121 | 125 | 63 | 123 | 139 | 42 | 15 | 166 | 1629 |
| 52 | 122 | 126 | 51 | 57 | 61 | 116 | 127 | 132 | 131 | 60 | 56 | 58 | 118 | 48 | 133 | 176 | 5 | 1629 |
| 45 | 30 | 146 | 43 | 46 | 137 | 39 | 143 | 41 | 153 | 29 | 144 | 141 | 32 | 134 | 145 | 174 | 7 | 1629 |
| 136 | 151 | 35 | 138 | 135 | 44 | 142 | 38 | 140 | 28 | 152 | 37 | 40 | 149 | 36 | 47 | 17 | 164 | 1629 |
| 25 | 10 | 12 | 165 | 2 | 20 | 163 | 180 | 4 | 172 | 158 | 8 | 170 | 19 | 21 | 155 | 167 | 178 | 1629 |
| 156 | 171 | 169 | 16 | 179 | 161 | 18 | 1 | 177 | 9 | 23 | 173 | 11 | 162 | 160 | 26 | 3 | 14 | 1629 |
| 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | |
| 86 | 94 | 88 | 81 | 96 | 82 | 98 | 92 | 97 | 91 | 104 | 77 | 115 | 66 | 148 | 33 | 1448 | | |
| 95 | 87 | 93 | 100 | 85 | 99 | 83 | 89 | 84 | 90 | 74 | 107 | 62 | 119 | 34 | 147 | 1448 | | |
| 112 | 113 | 70 | 72 | 101 | 71 | 73 | 75 | 78 | 114 | 105 | 102 | 117 | 64 | 154 | 27 | 1448 | | |
| 69 | 68 | 111 | 109 | 80 | 110 | 108 | 106 | 103 | 67 | 79 | 76 | 128 | 53 | 31 | 150 | 1448 | | |
| 129 | 59 | 55 | 130 | 124 | 120 | 65 | 54 | 49 | 50 | 121 | 125 | 63 | 123 | 139 | 42 | 1448 | | |
| 52 | 122 | 126 | 51 | 57 | 61 | 116 | 127 | 132 | 131 | 60 | 56 | 58 | 118 | 48 | 133 | 1448 | | |
| 45 | 30 | 146 | 43 | 46 | 137 | 39 | 143 | 41 | 153 | 29 | 144 | 141 | 32 | 134 | 145 | 1448 | | |
| 136 | 151 | 35 | 138 | 135 | 44 | 142 | 38 | 140 | 28 | 152 | 37 | 40 | 149 | 36 | 47 | 1448 | | |
| 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | | | |
| 86 | 94 | 88 | 81 | 96 | 82 | 98 | 92 | 97 | 91 | 104 | 77 | 115 | 66 | 1267 | | | | |
| 95 | 87 | 93 | 100 | 85 | 99 | 83 | 89 | 84 | 90 | 74 | 107 | 62 | 119 | 1267 | | | | |
| 112 | 113 | 70 | 72 | 101 | 71 | 73 | 75 | 78 | 114 | 105 | 102 | 117 | 64 | 1267 | | | | |
| 69 | 68 | 111 | 109 | 80 | 110 | 108 | 106 | 103 | 67 | 79 | 76 | 128 | 53 | 1267 | | | | |
| 129 | 59 | 55 | 130 | 124 | 120 | 65 | 54 | 49 | 50 | 121 | 125 | 63 | 123 | 1267 | | | | |
| 52 | 122 | 126 | 51 | 57 | 61 | 116 | 127 | 132 | 131 | 60 | 56 | 58 | 118 | 1267 | | | | |
| 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | 543 | | | |
| 86 | 94 | 88 | 81 | 96 | 82 | 98 | 92 | 97 | 91 | 104 | 77 | 1086 | | | | | | |
| 95 | 87 | 93 | 100 | 85 | 99 | 83 | 89 | 84 | 90 | 74 | 107 | 1086 | | | | | | |
| 112 | 113 | 70 | 72 | 101 | 71 | 73 | 75 | 78 | 114 | 105 | 102 | 1086 | | | | | | |
| 69 | 68 | 111 | 109 | 80 | 110 | 108 | 106 | 103 | 67 | 79 | 76 | 1086 | | | | | | |
| 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | | | | | |
| 86 | 94 | 88 | 81 | 96 | 82 | 98 | 92 | 97 | 91 | 905 | | | | | | | | |
| 95 | 87 | 93 | 100 | 85 | 99 | 83 | 89 | 84 | 90 | 905 | | | | | | | | |
| 181 | 181 | 181 | 181 | 181 | 181 | 181 | 181 | 181 | 181 | | | | | | | | | |

From above examples, we observe that when we remove external double digits borders only in two-sides, still we are left with **cornered magic rectangles**. Sometimes these kinds of **cornered magic rectangles**, we call as **embedded** or **nested cornered magic rectangles**.

More studies on above three types of **magic rectangles** are available at [90]. To calculate these **magic rectangles** using software refer H. White's [1] download page

1.4 Striped Magic Rectangles

We observe from double digits magic rectangles that any order magic rectangles with width 2 are always magic rectangles, i.e., these are of magic rectangles of type 2×4 , 2×6 , 2×8 , etc. But this property is not true for the cornered magic rectangles. Below are few examples where we have cornered magic rectangles with the property that order multiple of two is always a magic rectangle. See below two examples.

Example 6. Below is an example of a *striped cornered magic rectangle* of order 6×14 :

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 52 | 47 | 40 | 37 | 42 | 36 | 41 | 50 | 34 | 46 | 58 | 27 | 12 | 73 | 595 |
| 33 | 38 | 45 | 48 | 43 | 49 | 44 | 35 | 51 | 39 | 60 | 25 | 74 | 11 | 595 |
| 26 | 66 | 32 | 64 | 65 | 31 | 22 | 28 | 61 | 30 | 29 | 56 | 4 | 81 | 595 |
| 59 | 19 | 53 | 21 | 20 | 54 | 63 | 57 | 24 | 55 | 23 | 62 | 78 | 7 | 595 |
| 71 | 69 | 72 | 5 | 6 | 67 | 70 | 3 | 68 | 2 | 1 | 76 | 77 | 8 | 595 |
| 14 | 16 | 13 | 80 | 79 | 18 | 15 | 82 | 17 | 83 | 84 | 9 | 10 | 75 | 595 |
| 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |

The sums are as follows:

| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|-----|-----|----|
| 71 | 69 | 72 | 5 | 6 | 67 | 70 | 3 | 68 | 2 | 1 | 76 | 510 | 12 | 73 | 85 | 58 | 27 | 85 |
| 14 | 16 | 13 | 80 | 79 | 18 | 15 | 82 | 17 | 83 | 84 | 9 | 510 | 74 | 11 | 85 | 60 | 25 | 85 |
| 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 4 | 81 | 85 | 29 | 56 | 85 |
| | | | | | | | | | | | | | 78 | 7 | 85 | 23 | 62 | 85 |
| | | | | | | | | | | | | | 77 | 8 | 85 | 170 | 170 | |
| 26 | 66 | 32 | 64 | 65 | 31 | 22 | 28 | 61 | 30 | 425 | 10 | 75 | 85 | | | | | |
| 59 | 19 | 53 | 21 | 20 | 54 | 63 | 57 | 24 | 55 | 425 | 255 | 255 | | | | | | |
| 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 52 | 47 | 40 | 37 | 42 | 36 | 41 | 50 | 34 | 46 | 425 | | | | | | | | |
| 33 | 38 | 45 | 48 | 43 | 49 | 44 | 35 | 51 | 39 | 425 | | | | | | | | |
| 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | | | | | | | | |

Example 7. Below is an example of another *striped cornered magic rectangle* of order 10×12 :

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 59 | 61 | 64 | 58 | 68 | 53 | 73 | 48 | 86 | 35 | 18 | 103 | 726 |
| 62 | 60 | 57 | 63 | 50 | 71 | 76 | 45 | 24 | 97 | 108 | 13 | 726 |
| 72 | 65 | 54 | 51 | 69 | 52 | 46 | 75 | 22 | 99 | 8 | 113 | 726 |
| 49 | 56 | 67 | 70 | 55 | 66 | 41 | 80 | 98 | 23 | 104 | 17 | 726 |
| 74 | 84 | 81 | 39 | 42 | 43 | 44 | 77 | 29 | 92 | 102 | 19 | 726 |
| 47 | 37 | 40 | 82 | 79 | 78 | 83 | 38 | 34 | 87 | 15 | 106 | 726 |
| 90 | 26 | 33 | 96 | 94 | 32 | 85 | 28 | 91 | 30 | 115 | 6 | 726 |
| 31 | 95 | 88 | 25 | 27 | 89 | 36 | 93 | 100 | 21 | 114 | 7 | 726 |
| 109 | 116 | 2 | 118 | 1 | 4 | 112 | 16 | 107 | 20 | 11 | 110 | 726 |
| 12 | 5 | 119 | 3 | 120 | 117 | 9 | 105 | 14 | 101 | 10 | 111 | 726 |
| 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | |

The sums are as follows:

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 109 | 116 | 2 | 118 | 1 | 4 | 112 | 16 | 107 | 20 | 605 | 18 | 103 | 121 | 86 | 35 | 121 | 73 | 48 | 121 | 68 | 53 | 121 | |
| 12 | 5 | 119 | 3 | 120 | 117 | 9 | 105 | 14 | 101 | 605 | 108 | 13 | 121 | 24 | 97 | 121 | 76 | 45 | 121 | 50 | 71 | 121 | |
| 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 8 | 113 | 121 | 22 | 99 | 121 | 46 | 75 | 121 | 69 | 52 | 121 | |
| | | | | | | | | | | | 104 | 17 | 121 | 98 | 23 | 121 | 41 | 80 | 121 | 55 | 66 | 121 | |
| 90 | 26 | 33 | 96 | 94 | 32 | 85 | 28 | 484 | | | 102 | 19 | 121 | 29 | 92 | 121 | 44 | 77 | 121 | 242 | 242 | | |
| 31 | 95 | 88 | 25 | 27 | 89 | 36 | 93 | 484 | | | 15 | 106 | 121 | 34 | 87 | 121 | 83 | 38 | 121 | | | | |
| 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 | | | 115 | 6 | 121 | 91 | 30 | 121 | 363 | 363 | | | | | |
| | | | | | | | | | | | 114 | 7 | 121 | 100 | 21 | 121 | | | | | | | |
| 74 | 84 | 81 | 39 | 42 | 43 | 363 | | | | | 11 | 110 | 121 | 484 | 484 | | | | | | | | |
| 47 | 37 | 40 | 82 | 79 | 78 | 363 | | | | | 10 | 111 | 121 | | | | | | | | | | |
| 121 | 121 | 121 | 121 | 121 | 121 | 121 | | | | | 605 | 605 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | 65 | 54 | 51 | 242 | | 59 | 61 | 64 | 58 | 242 | | | | | | | | | | | | | |
| 49 | 56 | 67 | 70 | 242 | | 62 | 60 | 57 | 63 | 242 | | | | | | | | | | | | | |
| 121 | 121 | 121 | 121 | | | 121 | 121 | 121 | 121 | | | | | | | | | | | | | | |

Based on above idea below are two examples of **striped magic squares**

2 Magic Squares of Order 14

In this section we have written 3354 magic squares of order 14. These are based on 5 items given above. Since there are 3354 magic squares of order 14, we have divided them in 10 parts. Below are details.

2.1 Part 1. General or Mixed Magic Squares

This part give some general magic square of order 14. Below are only 6 examples. The examples are in a pdf file attached below:

| 5 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 85 | 111 | 87 | 109 | 89 | 107 | 106 | 92 | 104 | 94 | 95 | 101 | 100 | 99 | 1379 |
| 82 | 83 | 113 | 116 | 79 | 118 | 128 | 69 | 149 | 48 | 170 | 27 | 19 | 178 | 1379 |
| 115 | 114 | 84 | 81 | 74 | 123 | 71 | 126 | 148 | 49 | 172 | 25 | 189 | 8 | 1379 |
| 117 | 124 | 75 | 78 | 120 | 77 | 133 | 64 | 144 | 53 | 40 | 157 | 12 | 185 | 1379 |
| 80 | 73 | 122 | 119 | 121 | 76 | 130 | 67 | 56 | 141 | 29 | 168 | 181 | 16 | 1379 |
| 62 | 65 | 127 | 134 | 131 | 72 | 68 | 129 | 137 | 60 | 33 | 164 | 4 | 193 | 1379 |
| 135 | 132 | 70 | 63 | 66 | 125 | 61 | 136 | 46 | 151 | 163 | 34 | 187 | 10 | 1379 |
| 139 | 45 | 147 | 142 | 54 | 59 | 150 | 52 | 51 | 146 | 153 | 44 | 13 | 184 | 1379 |
| 58 | 152 | 50 | 55 | 143 | 138 | 47 | 145 | 57 | 140 | 155 | 42 | 175 | 22 | 1379 |
| 28 | 35 | 161 | 166 | 160 | 26 | 41 | 158 | 43 | 167 | 32 | 165 | 176 | 21 | 1379 |
| 169 | 162 | 36 | 31 | 37 | 171 | 156 | 39 | 154 | 30 | 38 | 159 | 20 | 177 | 1379 |
| 180 | 192 | 186 | 23 | 1 | 6 | 24 | 183 | 182 | 7 | 3 | 195 | 18 | 179 | 1379 |
| 17 | 5 | 11 | 174 | 196 | 191 | 173 | 14 | 15 | 190 | 194 | 2 | 188 | 9 | 1379 |
| 112 | 86 | 110 | 88 | 108 | 90 | 91 | 105 | 93 | 103 | 102 | 96 | 97 | 98 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 8 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 155 | 192 | 164 | 32 | 184 | 168 | 43 | 182 | 22 | 10 | 28 | 2 | 19 | 178 | 1379 |
| 42 | 5 | 33 | 165 | 13 | 29 | 154 | 15 | 175 | 187 | 169 | 195 | 11 | 186 | 1379 |
| 180 | 17 | 152 | 65 | 68 | 57 | 131 | 139 | 50 | 126 | 67 | 130 | 177 | 20 | 1379 |
| 173 | 24 | 45 | 132 | 129 | 140 | 66 | 58 | 147 | 71 | 55 | 142 | 189 | 8 | 1379 |
| 25 | 172 | 138 | 59 | 81 | 115 | 114 | 84 | 80 | 117 | 62 | 135 | 158 | 39 | 1379 |
| 6 | 191 | 47 | 150 | 116 | 82 | 83 | 113 | 119 | 78 | 148 | 49 | 30 | 167 | 1379 |
| 159 | 38 | 136 | 61 | 73 | 123 | 122 | 76 | 118 | 79 | 134 | 63 | 166 | 31 | 1379 |
| 161 | 36 | 70 | 127 | 124 | 74 | 75 | 121 | 77 | 120 | 125 | 72 | 27 | 170 | 1379 |
| 37 | 160 | 146 | 51 | 48 | 64 | 144 | 60 | 128 | 151 | 141 | 52 | 23 | 174 | 1379 |
| 193 | 4 | 54 | 143 | 149 | 133 | 53 | 137 | 69 | 46 | 56 | 145 | 185 | 12 | 1379 |
| 44 | 153 | 41 | 26 | 163 | 18 | 181 | 176 | 3 | 1 | 162 | 188 | 183 | 40 | 1379 |
| 7 | 190 | 156 | 171 | 34 | 179 | 16 | 21 | 194 | 196 | 35 | 9 | 14 | 157 | 1379 |
| 85 | 111 | 99 | 109 | 89 | 107 | 106 | 92 | 104 | 94 | 95 | 101 | 87 | 100 | 1379 |
| 112 | 86 | 98 | 88 | 108 | 90 | 91 | 105 | 93 | 103 | 102 | 96 | 110 | 97 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 16 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 184 | 186 | 14 | 10 | 85 | 156 | 158 | 42 | 38 | 112 | 128 | 130 | 70 | 66 | 1379 |
| 13 | 11 | 183 | 187 | 111 | 41 | 39 | 155 | 159 | 86 | 69 | 67 | 127 | 131 | 1379 |
| 26 | 171 | 193 | 4 | 87 | 149 | 48 | 165 | 32 | 110 | 82 | 115 | 137 | 60 | 1379 |
| 25 | 172 | 8 | 189 | 109 | 53 | 144 | 36 | 161 | 88 | 81 | 116 | 64 | 133 | 1379 |
| 22 | 175 | 1 | 196 | 94 | 50 | 147 | 160 | 37 | 103 | 78 | 119 | 57 | 140 | 1379 |
| 174 | 23 | 188 | 9 | 107 | 54 | 143 | 29 | 168 | 90 | 118 | 79 | 132 | 65 | 1379 |
| 169 | 28 | 190 | 7 | 106 | 141 | 56 | 162 | 35 | 91 | 113 | 84 | 134 | 63 | 1379 |
| 177 | 20 | 12 | 185 | 92 | 146 | 51 | 40 | 157 | 105 | 123 | 74 | 62 | 135 | 1379 |
| 17 | 180 | 15 | 182 | 104 | 45 | 152 | 43 | 154 | 93 | 73 | 124 | 71 | 126 | 1379 |
| 170 | 27 | 192 | 5 | 89 | 142 | 55 | 164 | 33 | 108 | 114 | 83 | 136 | 61 | 1379 |
| 24 | 173 | 181 | 16 | 95 | 52 | 145 | 153 | 44 | 102 | 80 | 117 | 138 | 59 | 1379 |
| 179 | 18 | 2 | 195 | 101 | 151 | 46 | 30 | 167 | 96 | 121 | 76 | 58 | 139 | 1379 |
| 21 | 176 | 194 | 3 | 100 | 49 | 148 | 166 | 31 | 97 | 77 | 120 | 68 | 129 | 1379 |
| 178 | 19 | 6 | 191 | 99 | 150 | 47 | 34 | 163 | 98 | 122 | 75 | 125 | 72 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 23 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 63 | 123 | 136 | 132 | 67 | 70 | 15 | 182 | 8 | 9 | 181 | 183 | 19 | 191 | 1379 |
| 135 | 82 | 111 | 81 | 120 | 62 | 195 | 2 | 189 | 188 | 16 | 14 | 178 | 6 | 1379 |
| 64 | 78 | 107 | 90 | 119 | 133 | 4 | 193 | 150 | 43 | 156 | 45 | 166 | 31 | 1379 |
| 59 | 75 | 89 | 108 | 122 | 138 | 17 | 180 | 158 | 146 | 51 | 39 | 35 | 162 | 1379 |
| 68 | 117 | 103 | 94 | 80 | 129 | 30 | 167 | 44 | 49 | 148 | 153 | 3 | 194 | 1379 |
| 137 | 113 | 92 | 105 | 84 | 60 | 176 | 21 | 157 | 56 | 141 | 40 | 27 | 170 | 1379 |
| 128 | 114 | 99 | 98 | 83 | 69 | 192 | 5 | 155 | 142 | 55 | 42 | 18 | 179 | 1379 |
| 72 | 87 | 101 | 96 | 110 | 125 | 165 | 32 | 46 | 52 | 145 | 151 | 185 | 12 | 1379 |
| 131 | 112 | 106 | 91 | 85 | 66 | 29 | 168 | 48 | 53 | 144 | 149 | 190 | 7 | 1379 |
| 57 | 121 | 93 | 104 | 76 | 140 | 187 | 10 | 37 | 147 | 50 | 160 | 161 | 36 | 1379 |
| 139 | 118 | 100 | 97 | 79 | 58 | 1 | 196 | 38 | 143 | 54 | 159 | 174 | 23 | 1379 |
| 73 | 88 | 95 | 102 | 109 | 124 | 171 | 26 | 152 | 154 | 41 | 47 | 13 | 184 | 1379 |
| 126 | 77 | 86 | 116 | 115 | 71 | 34 | 22 | 177 | 169 | 25 | 164 | 186 | 11 | 1379 |
| 127 | 74 | 61 | 65 | 130 | 134 | 163 | 175 | 20 | 28 | 172 | 33 | 24 | 173 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 42 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 7 | 192 | 1 | 194 | 15 | 184 | 9 | 186 | 28 | 174 | 21 | 170 | 25 | 173 | 1379 |
| 2 | 193 | 8 | 191 | 10 | 185 | 16 | 183 | 171 | 164 | 166 | 29 | 35 | 26 | 1379 |
| 196 | 3 | 190 | 5 | 188 | 11 | 182 | 13 | 18 | 34 | 159 | 38 | 163 | 179 | 1379 |
| 189 | 6 | 195 | 4 | 181 | 14 | 187 | 12 | 175 | 36 | 158 | 39 | 161 | 22 | 1379 |
| 47 | 42 | 55 | 152 | 151 | 48 | 147 | 146 | 17 | 165 | 37 | 160 | 32 | 180 | 1379 |
| 44 | 66 | 63 | 135 | 65 | 129 | 133 | 153 | 178 | 30 | 40 | 157 | 167 | 19 | 1379 |
| 145 | 139 | 127 | 74 | 121 | 72 | 58 | 52 | 177 | 162 | 31 | 168 | 33 | 20 | 1379 |
| 141 | 130 | 75 | 118 | 79 | 122 | 67 | 56 | 24 | 23 | 176 | 27 | 172 | 169 | 1379 |
| 54 | 57 | 124 | 119 | 78 | 73 | 140 | 143 | 112 | 116 | 83 | 110 | 84 | 86 | 1379 |
| 49 | 136 | 69 | 77 | 120 | 128 | 61 | 148 | 108 | 97 | 102 | 91 | 104 | 89 | 1379 |
| 154 | 137 | 71 | 80 | 117 | 126 | 60 | 43 | 88 | 92 | 103 | 98 | 101 | 109 | 1379 |
| 156 | 59 | 125 | 123 | 76 | 70 | 138 | 41 | 90 | 106 | 93 | 100 | 95 | 107 | 1379 |
| 144 | 64 | 134 | 62 | 132 | 68 | 131 | 53 | 82 | 99 | 96 | 105 | 94 | 115 | 1379 |
| 51 | 155 | 142 | 45 | 46 | 149 | 50 | 150 | 111 | 81 | 114 | 87 | 113 | 85 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 63 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 7 | 192 | 1 | 194 | 15 | 184 | 9 | 186 | 24 | 173 | 26 | 33 | 168 | 167 | 1379 |
| 2 | 193 | 8 | 191 | 10 | 185 | 16 | 183 | 166 | 31 | 171 | 164 | 29 | 30 | 1379 |
| 196 | 3 | 190 | 5 | 188 | 11 | 182 | 13 | 28 | 169 | 159 | 38 | 19 | 178 | 1379 |
| 189 | 6 | 195 | 4 | 181 | 14 | 187 | 12 | 163 | 34 | 40 | 157 | 180 | 17 | 1379 |
| 62 | 135 | 129 | 64 | 48 | 49 | 150 | 151 | 35 | 162 | 158 | 39 | 20 | 177 | 1379 |
| 41 | 156 | 68 | 133 | 149 | 148 | 47 | 46 | 175 | 22 | 37 | 160 | 179 | 18 | 1379 |
| 154 | 43 | 124 | 126 | 69 | 75 | 138 | 59 | 161 | 176 | 25 | 32 | 170 | 27 | 1379 |
| 130 | 67 | 74 | 118 | 79 | 123 | 137 | 60 | 36 | 21 | 172 | 165 | 23 | 174 | 1379 |
| 61 | 136 | 125 | 119 | 78 | 72 | 63 | 134 | 102 | 95 | 113 | 82 | 116 | 83 | 1379 |
| 44 | 153 | 76 | 80 | 117 | 121 | 143 | 54 | 94 | 103 | 84 | 115 | 81 | 114 | 1379 |
| 155 | 42 | 70 | 77 | 120 | 127 | 145 | 52 | 97 | 100 | 85 | 112 | 107 | 90 | 1379 |
| 141 | 56 | 122 | 71 | 128 | 73 | 50 | 147 | 98 | 99 | 110 | 87 | 92 | 105 | 1379 |
| 58 | 45 | 132 | 146 | 66 | 144 | 55 | 142 | 96 | 101 | 111 | 86 | 106 | 91 | 1379 |
| 139 | 152 | 65 | 51 | 131 | 53 | 57 | 140 | 104 | 93 | 88 | 109 | 89 | 108 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

2.2 Part 2. Magic Squares of Order 6 in the Middle

This part give some magic square of order 14 written in different ways. All these magic squares magic square of order 6 is in the middle. There are different choices of magic squares of order 6. See below few examples:

| 66 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 7 | 185 | 188 | 2 | 8 | 193 | 10 | 6 | 194 | 192 | 25 | 176 | 166 | 27 | 1379 |
| 196 | 183 | 182 | 16 | 179 | 20 | 13 | 17 | 178 | 1 | 32 | 159 | 38 | 165 | 1379 |
| 186 | 14 | 15 | 181 | 18 | 177 | 184 | 180 | 19 | 11 | 29 | 37 | 160 | 168 | 1379 |
| 5 | 12 | 9 | 195 | 189 | 4 | 187 | 191 | 3 | 190 | 175 | 36 | 161 | 22 | 1379 |
| 67 | 136 | 126 | 65 | 112 | 110 | 83 | 116 | 84 | 86 | 169 | 163 | 34 | 28 | 1379 |
| 125 | 119 | 78 | 72 | 82 | 97 | 102 | 91 | 104 | 115 | 24 | 33 | 164 | 173 | 1379 |
| 128 | 80 | 117 | 69 | 88 | 92 | 103 | 98 | 101 | 109 | 167 | 162 | 35 | 30 | 1379 |
| 66 | 77 | 120 | 131 | 90 | 106 | 93 | 100 | 95 | 107 | 171 | 40 | 157 | 26 | 1379 |
| 68 | 118 | 79 | 129 | 108 | 99 | 96 | 105 | 94 | 89 | 23 | 158 | 39 | 174 | 1379 |
| 133 | 73 | 124 | 64 | 111 | 87 | 114 | 81 | 113 | 85 | 170 | 21 | 31 | 172 | 1379 |
| 62 | 122 | 75 | 135 | 150 | 52 | 49 | 151 | 149 | 44 | 147 | 155 | 43 | 45 | 1379 |
| 70 | 76 | 121 | 127 | 41 | 57 | 60 | 56 | 143 | 53 | 138 | 139 | 142 | 156 | 1379 |
| 134 | 123 | 74 | 63 | 51 | 140 | 137 | 141 | 54 | 144 | 59 | 58 | 55 | 146 | 1379 |
| 132 | 61 | 71 | 130 | 152 | 145 | 148 | 46 | 48 | 153 | 50 | 42 | 154 | 47 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 73 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 180 | 13 | 16 | 183 | 182 | 18 | 19 | 177 | 5 | 192 | 166 | 31 | 40 | 157 | 1379 |
| 17 | 184 | 181 | 14 | 15 | 179 | 178 | 20 | 190 | 7 | 165 | 32 | 158 | 39 | 1379 |
| 11 | 191 | 8 | 1 | 10 | 188 | 185 | 194 | 4 | 193 | 176 | 21 | 161 | 36 | 1379 |
| 186 | 6 | 189 | 196 | 187 | 9 | 12 | 3 | 195 | 2 | 24 | 173 | 35 | 162 | 1379 |
| 134 | 72 | 126 | 62 | 81 | 115 | 114 | 113 | 82 | 86 | 26 | 171 | 163 | 34 | 1379 |
| 63 | 125 | 71 | 135 | 110 | 88 | 108 | 89 | 91 | 105 | 29 | 168 | 160 | 37 | 1379 |
| 73 | 124 | 68 | 129 | 104 | 103 | 95 | 96 | 100 | 93 | 27 | 170 | 33 | 164 | 1379 |
| 76 | 121 | 132 | 65 | 98 | 94 | 101 | 102 | 97 | 99 | 175 | 22 | 38 | 159 | 1379 |
| 120 | 77 | 61 | 136 | 87 | 106 | 90 | 107 | 109 | 92 | 167 | 174 | 28 | 25 | 1379 |
| 122 | 75 | 133 | 64 | 111 | 85 | 83 | 84 | 112 | 116 | 30 | 23 | 169 | 172 | 1379 |
| 78 | 119 | 70 | 127 | 153 | 44 | 51 | 148 | 152 | 149 | 52 | 147 | 42 | 47 | 1379 |
| 123 | 74 | 66 | 131 | 46 | 151 | 146 | 49 | 45 | 48 | 145 | 50 | 155 | 150 | 1379 |
| 79 | 118 | 130 | 67 | 154 | 43 | 55 | 54 | 141 | 144 | 138 | 57 | 60 | 139 | 1379 |
| 117 | 80 | 128 | 69 | 41 | 156 | 142 | 143 | 56 | 53 | 59 | 140 | 137 | 58 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 90 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 120 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|
| 13 | 186 | 188 | 7 | 59 | 140 | 60 | 133 | 136 | 63 | 41 | 158 | 160 | 35 | 1379 |
| 6 | 169 | 28 | 191 | 62 | 67 | 129 | 132 | 66 | 135 | 34 | 50 | 147 | 163 | 1379 |
| 187 | 22 | 175 | 10 | 139 | 130 | 68 | 65 | 131 | 58 | 159 | 48 | 149 | 38 | 1379 |
| 185 | 172 | 25 | 12 | 134 | 57 | 137 | 64 | 61 | 138 | 157 | 144 | 53 | 40 | 1379 |
| 189 | 23 | 174 | 8 | 86 | 110 | 83 | 116 | 84 | 112 | 165 | 51 | 146 | 32 | 1379 |
| 182 | 26 | 171 | 15 | 115 | 97 | 102 | 91 | 104 | 82 | 154 | 54 | 143 | 43 | 1379 |
| 1 | 179 | 18 | 196 | 109 | 92 | 103 | 98 | 101 | 88 | 29 | 151 | 46 | 168 | 1379 |
| 3 | 173 | 24 | 194 | 107 | 106 | 93 | 100 | 95 | 90 | 31 | 145 | 52 | 166 | 1379 |
| 16 | 20 | 177 | 181 | 89 | 99 | 96 | 105 | 94 | 108 | 44 | 141 | 56 | 153 | 1379 |
| 5 | 178 | 19 | 192 | 85 | 87 | 114 | 81 | 113 | 111 | 33 | 45 | 152 | 164 | 1379 |
| 193 | 176 | 21 | 4 | 71 | 128 | 72 | 121 | 124 | 75 | 161 | 148 | 49 | 36 | 1379 |
| 195 | 17 | 180 | 2 | 74 | 79 | 117 | 120 | 78 | 123 | 167 | 55 | 142 | 30 | 1379 |
| 14 | 27 | 170 | 183 | 127 | 118 | 80 | 77 | 119 | 70 | 42 | 150 | 47 | 155 | 1379 |
| 190 | 11 | 9 | 184 | 122 | 69 | 125 | 76 | 73 | 126 | 162 | 39 | 37 | 156 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |
| 7 | 192 | 1 | 194 | 41 | 154 | 44 | 155 | 163 | 34 | 15 | 184 | 9 | 186 | 1379 |
| 2 | 193 | 8 | 191 | 156 | 43 | 153 | 42 | 38 | 159 | 10 | 185 | 16 | 183 | 1379 |
| 196 | 3 | 190 | 5 | 36 | 157 | 35 | 39 | 160 | 164 | 188 | 11 | 182 | 13 | 1379 |
| 189 | 6 | 195 | 4 | 161 | 40 | 162 | 158 | 33 | 37 | 181 | 14 | 187 | 12 | 1379 |
| 125 | 76 | 69 | 124 | 87 | 113 | 85 | 111 | 114 | 81 | 151 | 46 | 143 | 54 | 1379 |
| 72 | 121 | 73 | 128 | 109 | 107 | 89 | 92 | 106 | 88 | 48 | 149 | 53 | 144 | 1379 |
| 119 | 78 | 122 | 75 | 82 | 90 | 108 | 105 | 91 | 115 | 145 | 52 | 142 | 55 | 1379 |
| 118 | 79 | 127 | 70 | 116 | 84 | 112 | 86 | 83 | 110 | 147 | 50 | 56 | 141 | 1379 |
| 77 | 120 | 74 | 123 | 104 | 94 | 98 | 97 | 102 | 96 | 49 | 146 | 47 | 152 | 1379 |
| 80 | 117 | 126 | 71 | 93 | 103 | 99 | 100 | 95 | 101 | 51 | 148 | 150 | 45 | 1379 |
| 31 | 168 | 25 | 170 | 136 | 63 | 135 | 58 | 59 | 140 | 23 | 176 | 17 | 178 | 1379 |
| 26 | 169 | 32 | 167 | 134 | 61 | 62 | 139 | 138 | 57 | 18 | 177 | 24 | 175 | 1379 |
| 172 | 27 | 166 | 29 | 64 | 133 | 131 | 65 | 130 | 68 | 180 | 19 | 174 | 21 | 1379 |
| 165 | 30 | 171 | 28 | 60 | 137 | 66 | 132 | 67 | 129 | 173 | 22 | 179 | 20 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

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|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|
| 7 | 192 | 1 | 194 | 184 | 14 | 185 | 16 | 10 | 182 | 25 | 176 | 166 | 27 | 1379 |
| 2 | 193 | 8 | 191 | 186 | 20 | 17 | 179 | 178 | 11 | 32 | 159 | 38 | 165 | 1379 |
| 196 | 3 | 190 | 5 | 9 | 177 | 180 | 18 | 19 | 188 | 29 | 37 | 160 | 168 | 1379 |
| 189 | 6 | 195 | 4 | 15 | 183 | 12 | 181 | 187 | 13 | 175 | 36 | 161 | 22 | 1379 |
| 67 | 136 | 126 | 65 | 87 | 113 | 85 | 111 | 114 | 81 | 169 | 163 | 34 | 28 | 1379 |
| 125 | 119 | 78 | 72 | 109 | 107 | 89 | 92 | 106 | 88 | 24 | 33 | 164 | 173 | 1379 |
| 128 | 80 | 117 | 69 | 82 | 90 | 108 | 105 | 91 | 115 | 167 | 162 | 35 | 30 | 1379 |
| 66 | 77 | 120 | 131 | 116 | 84 | 112 | 86 | 83 | 110 | 171 | 40 | 157 | 26 | 1379 |
| 68 | 118 | 79 | 129 | 104 | 94 | 98 | 97 | 102 | 96 | 23 | 158 | 39 | 174 | 1379 |
| 133 | 73 | 124 | 64 | 93 | 103 | 99 | 100 | 95 | 101 | 170 | 21 | 31 | 172 | 1379 |
| 62 | 122 | 75 | 135 | 144 | 54 | 145 | 56 | 50 | 142 | 47 | 152 | 41 | 154 | 1379 |
| 70 | 76 | 121 | 127 | 146 | 60 | 57 | 139 | 138 | 51 | 42 | 153 | 48 | 151 | 1379 |
| 134 | 123 | 74 | 63 | 49 | 137 | 140 | 58 | 59 | 148 | 156 | 43 | 150 | 45 | 1379 |
| 132 | 61 | 71 | 130 | 55 | 143 | 52 | 141 | 147 | 53 | 149 | 46 | 155 | 44 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |
| 7 | 192 | 1 | 194 | 17 | 178 | 20 | 179 | 187 | 10 | 21 | 24 | 175 | 174 | 1379 |
| 2 | 193 | 8 | 191 | 180 | 19 | 177 | 18 | 14 | 183 | 176 | 173 | 22 | 23 | 1379 |
| 196 | 3 | 190 | 5 | 12 | 181 | 11 | 15 | 184 | 188 | 25 | 172 | 33 | 164 | 1379 |
| 189 | 6 | 195 | 4 | 185 | 16 | 186 | 182 | 9 | 13 | 30 | 167 | 163 | 34 | 1379 |
| 73 | 124 | 126 | 71 | 91 | 106 | 86 | 111 | 83 | 114 | 171 | 26 | 35 | 162 | 1379 |
| 123 | 74 | 131 | 66 | 108 | 89 | 109 | 88 | 116 | 81 | 169 | 28 | 161 | 36 | 1379 |
| 75 | 122 | 67 | 130 | 90 | 107 | 112 | 85 | 82 | 115 | 168 | 29 | 160 | 37 | 1379 |
| 121 | 76 | 129 | 68 | 105 | 92 | 87 | 110 | 113 | 84 | 27 | 170 | 38 | 159 | 1379 |
| 120 | 77 | 128 | 69 | 101 | 93 | 100 | 99 | 95 | 103 | 166 | 31 | 158 | 39 | 1379 |
| 78 | 119 | 70 | 127 | 96 | 104 | 97 | 98 | 102 | 94 | 32 | 165 | 40 | 157 | 1379 |
| 118 | 79 | 72 | 125 | 144 | 55 | 143 | 50 | 51 | 148 | 47 | 152 | 41 | 154 | 1379 |
| 80 | 117 | 65 | 132 | 142 | 53 | 54 | 147 | 146 | 49 | 42 | 153 | 48 | 151 | 1379 |
| 61 | 64 | 134 | 135 | 56 | 141 | 139 | 57 | 138 | 60 | 156 | 43 | 150 | 45 | 1379 |
| 136 | 133 | 63 | 62 | 52 | 145 | 58 | 140 | 59 | 137 | 149 | 46 | 155 | 44 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

2.3 Part 3. $(a + b)^2$ -Type, where a=8 and b=6

This part give some magic square of order 14 based on the algebraic formula $(a + b)^2$. Here a=8 and b=6. Since there are many possibilities of writing magic squares of orders 8 and 6, this give different magic squares of order 14. The complete pdf file is attached. Moreover, the magic rectangle of type $(a + b)$ or $(b + a)$ are also taken in different forms. See below few examples:

| 142 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 74 | 68 | 128 | 130 | 117 | 119 | 79 | 73 | 12 | 190 | 5 | 186 | 9 | 189 | 1379 |
| 71 | 112 | 110 | 83 | 116 | 84 | 86 | 126 | 193 | 180 | 182 | 13 | 19 | 4 | 1379 |
| 72 | 82 | 97 | 102 | 91 | 104 | 115 | 125 | 2 | 18 | 174 | 23 | 179 | 195 | 1379 |
| 77 | 88 | 92 | 103 | 98 | 101 | 109 | 120 | 191 | 181 | 21 | 176 | 16 | 6 | 1379 |
| 127 | 90 | 106 | 93 | 100 | 95 | 107 | 70 | 1 | 20 | 175 | 22 | 177 | 196 | 1379 |
| 122 | 108 | 99 | 96 | 105 | 94 | 89 | 75 | 194 | 14 | 24 | 173 | 183 | 3 | 1379 |
| 121 | 111 | 87 | 114 | 81 | 113 | 85 | 76 | 187 | 178 | 15 | 184 | 17 | 10 | 1379 |
| 124 | 129 | 69 | 67 | 80 | 78 | 118 | 123 | 8 | 7 | 192 | 11 | 188 | 185 | 1379 |
| 36 | 169 | 26 | 163 | 25 | 167 | 170 | 32 | 49 | 147 | 146 | 145 | 50 | 54 | 1379 |
| 166 | 156 | 42 | 157 | 44 | 38 | 154 | 31 | 142 | 56 | 140 | 57 | 59 | 137 | 1379 |
| 29 | 158 | 48 | 151 | 45 | 150 | 39 | 168 | 136 | 135 | 63 | 64 | 132 | 61 | 1379 |
| 162 | 37 | 149 | 46 | 152 | 47 | 160 | 35 | 66 | 62 | 133 | 134 | 65 | 131 | 1379 |
| 33 | 43 | 155 | 40 | 153 | 159 | 41 | 164 | 55 | 138 | 58 | 139 | 141 | 60 | 1379 |
| 165 | 28 | 171 | 34 | 172 | 30 | 27 | 161 | 143 | 53 | 51 | 52 | 144 | 148 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 179 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 69 | 67 | 129 | 127 | 126 | 124 | 74 | 72 | 12 | 190 | 5 | 186 | 9 | 189 | 1379 |
| 128 | 130 | 68 | 70 | 71 | 73 | 123 | 125 | 193 | 178 | 15 | 184 | 17 | 4 | 1379 |
| 83 | 114 | 97 | 102 | 91 | 104 | 87 | 110 | 2 | 18 | 174 | 23 | 179 | 195 | 1379 |
| 86 | 111 | 92 | 103 | 98 | 101 | 90 | 107 | 191 | 181 | 24 | 173 | 16 | 6 | 1379 |
| 113 | 84 | 106 | 93 | 100 | 95 | 109 | 88 | 1 | 14 | 175 | 22 | 183 | 196 | 1379 |
| 112 | 85 | 99 | 96 | 105 | 94 | 108 | 89 | 194 | 20 | 21 | 176 | 177 | 3 | 1379 |
| 119 | 121 | 75 | 77 | 82 | 80 | 116 | 118 | 187 | 180 | 182 | 13 | 19 | 10 | 1379 |
| 78 | 76 | 122 | 120 | 115 | 117 | 81 | 79 | 8 | 7 | 192 | 11 | 188 | 185 | 1379 |
| 36 | 169 | 26 | 163 | 25 | 167 | 170 | 32 | 54 | 142 | 51 | 148 | 52 | 144 | 1379 |
| 166 | 156 | 42 | 157 | 44 | 38 | 154 | 31 | 147 | 65 | 134 | 59 | 136 | 50 | 1379 |
| 29 | 158 | 48 | 151 | 45 | 150 | 39 | 168 | 141 | 60 | 135 | 66 | 133 | 56 | 1379 |
| 162 | 37 | 149 | 46 | 152 | 47 | 160 | 35 | 139 | 138 | 61 | 132 | 63 | 58 | 1379 |
| 33 | 43 | 155 | 40 | 153 | 159 | 41 | 164 | 57 | 131 | 64 | 137 | 62 | 140 | 1379 |
| 165 | 28 | 171 | 34 | 172 | 30 | 27 | 161 | 53 | 55 | 146 | 49 | 145 | 143 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 218 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 67 | 130 | 77 | 120 | 83 | 114 | 91 | 106 | 12 | 190 | 5 | 186 | 9 | 189 | 1379 |
| 69 | 128 | 121 | 76 | 111 | 86 | 105 | 92 | 193 | 180 | 182 | 13 | 19 | 4 | 1379 |
| 129 | 68 | 75 | 122 | 88 | 109 | 100 | 97 | 2 | 18 | 175 | 22 | 179 | 195 | 1379 |
| 127 | 70 | 82 | 115 | 110 | 87 | 103 | 94 | 191 | 181 | 24 | 173 | 16 | 6 | 1379 |
| 126 | 71 | 118 | 79 | 108 | 89 | 98 | 99 | 1 | 14 | 174 | 23 | 183 | 196 | 1379 |
| 124 | 73 | 80 | 117 | 90 | 107 | 96 | 101 | 187 | 20 | 21 | 176 | 177 | 10 | 1379 |
| 72 | 125 | 116 | 81 | 113 | 84 | 93 | 104 | 194 | 178 | 15 | 184 | 17 | 3 | 1379 |
| 74 | 123 | 119 | 78 | 85 | 112 | 102 | 95 | 8 | 7 | 192 | 11 | 188 | 185 | 1379 |
| 36 | 169 | 26 | 163 | 25 | 167 | 170 | 32 | 54 | 144 | 52 | 51 | 148 | 142 | 1379 |
| 166 | 156 | 42 | 157 | 44 | 38 | 154 | 31 | 53 | 143 | 145 | 146 | 49 | 55 | 1379 |
| 29 | 158 | 48 | 150 | 45 | 151 | 39 | 168 | 141 | 56 | 65 | 134 | 59 | 136 | 1379 |
| 162 | 37 | 149 | 47 | 152 | 46 | 160 | 35 | 139 | 58 | 60 | 135 | 66 | 133 | 1379 |
| 33 | 43 | 155 | 40 | 153 | 159 | 41 | 164 | 147 | 50 | 138 | 61 | 132 | 63 | 1379 |
| 165 | 28 | 171 | 34 | 172 | 30 | 27 | 161 | 57 | 140 | 131 | 64 | 137 | 62 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 297 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 125 | 74 | 113 | 78 | 116 | 85 | 111 | 86 | 19 | 178 | 183 | 184 | 17 | 10 | 1379 |
| 72 | 123 | 84 | 119 | 81 | 112 | 75 | 122 | 182 | 15 | 14 | 13 | 180 | 187 | 1379 |
| 76 | 121 | 109 | 90 | 108 | 87 | 82 | 115 | 191 | 6 | 175 | 22 | 3 | 194 | 1379 |
| 83 | 114 | 88 | 107 | 89 | 110 | 126 | 71 | 179 | 18 | 174 | 23 | 196 | 1 | 1379 |
| 118 | 79 | 69 | 130 | 73 | 129 | 120 | 70 | 8 | 189 | 21 | 176 | 4 | 193 | 1379 |
| 117 | 80 | 128 | 67 | 124 | 68 | 77 | 127 | 12 | 185 | 24 | 173 | 195 | 2 | 1379 |
| 102 | 98 | 93 | 103 | 100 | 96 | 91 | 105 | 9 | 16 | 177 | 192 | 186 | 11 | 1379 |
| 95 | 99 | 104 | 94 | 97 | 101 | 106 | 92 | 188 | 181 | 20 | 5 | 7 | 190 | 1379 |
| 32 | 167 | 36 | 158 | 155 | 43 | 33 | 164 | 54 | 142 | 51 | 148 | 52 | 144 | 1379 |
| 165 | 30 | 161 | 39 | 42 | 154 | 40 | 157 | 147 | 65 | 134 | 59 | 136 | 50 | 1379 |
| 34 | 163 | 48 | 151 | 150 | 45 | 153 | 44 | 141 | 60 | 135 | 66 | 133 | 56 | 1379 |
| 41 | 156 | 149 | 46 | 47 | 152 | 168 | 29 | 139 | 138 | 61 | 132 | 63 | 58 | 1379 |
| 160 | 37 | 27 | 172 | 28 | 171 | 162 | 31 | 57 | 131 | 64 | 137 | 62 | 140 | 1379 |
| 159 | 38 | 170 | 25 | 169 | 26 | 35 | 166 | 53 | 55 | 146 | 49 | 145 | 143 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 370 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 88 | 109 | 79 | 118 | 86 | 111 | 78 | 119 | 3 | 194 | 16 | 181 | 24 | 173 | 1379 |
| 110 | 87 | 117 | 80 | 112 | 85 | 120 | 77 | 195 | 2 | 13 | 184 | 175 | 22 | 1379 |
| 89 | 108 | 116 | 81 | 113 | 84 | 121 | 76 | 190 | 7 | 182 | 15 | 21 | 176 | 1379 |
| 107 | 90 | 82 | 115 | 83 | 114 | 75 | 122 | 193 | 4 | 183 | 14 | 174 | 23 | 1379 |
| 69 | 67 | 129 | 127 | 126 | 124 | 72 | 74 | 8 | 189 | 17 | 179 | 178 | 20 | 1379 |
| 128 | 130 | 68 | 70 | 71 | 73 | 125 | 123 | 1 | 196 | 180 | 18 | 19 | 177 | 1379 |
| 103 | 93 | 98 | 102 | 100 | 96 | 91 | 105 | 192 | 5 | 9 | 187 | 186 | 12 | 1379 |
| 94 | 104 | 99 | 95 | 97 | 101 | 106 | 92 | 6 | 191 | 188 | 10 | 11 | 185 | 1379 |
| 25 | 168 | 30 | 169 | 171 | 27 | 166 | 32 | 49 | 147 | 146 | 145 | 50 | 54 | 1379 |
| 172 | 29 | 167 | 28 | 26 | 170 | 31 | 165 | 142 | 56 | 140 | 57 | 59 | 137 | 1379 |
| 40 | 159 | 158 | 37 | 41 | 156 | 33 | 164 | 136 | 135 | 63 | 64 | 132 | 61 | 1379 |
| 157 | 38 | 39 | 160 | 155 | 42 | 163 | 34 | 66 | 62 | 133 | 134 | 65 | 131 | 1379 |
| 45 | 151 | 150 | 48 | 154 | 43 | 162 | 35 | 55 | 138 | 58 | 139 | 141 | 60 | 1379 |
| 152 | 46 | 47 | 149 | 44 | 153 | 36 | 161 | 143 | 53 | 51 | 52 | 144 | 148 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 567 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 71 | 70 | 128 | 125 | 68 | 129 | 60 | 137 | 1 | 196 | 16 | 181 | 175 | 22 | 1379 |
| 126 | 127 | 69 | 72 | 130 | 67 | 138 | 59 | 192 | 5 | 183 | 14 | 24 | 173 | 1379 |
| 61 | 134 | 135 | 64 | 131 | 66 | 139 | 58 | 3 | 194 | 13 | 184 | 21 | 176 | 1379 |
| 136 | 63 | 62 | 133 | 65 | 132 | 57 | 140 | 190 | 7 | 182 | 15 | 174 | 23 | 1379 |
| 51 | 49 | 147 | 145 | 144 | 142 | 54 | 56 | 8 | 189 | 17 | 179 | 178 | 20 | 1379 |
| 146 | 148 | 50 | 52 | 53 | 55 | 143 | 141 | 195 | 2 | 180 | 18 | 19 | 177 | 1379 |
| 121 | 75 | 80 | 120 | 118 | 78 | 73 | 123 | 6 | 191 | 9 | 187 | 186 | 12 | 1379 |
| 76 | 122 | 117 | 77 | 79 | 119 | 124 | 74 | 193 | 4 | 188 | 10 | 11 | 185 | 1379 |
| 25 | 171 | 27 | 169 | 168 | 30 | 166 | 32 | 94 | 103 | 84 | 115 | 81 | 114 | 1379 |
| 172 | 26 | 170 | 28 | 29 | 167 | 31 | 165 | 102 | 95 | 113 | 82 | 116 | 83 | 1379 |
| 37 | 159 | 158 | 40 | 41 | 156 | 33 | 164 | 98 | 99 | 111 | 86 | 92 | 105 | 1379 |
| 160 | 38 | 39 | 157 | 155 | 42 | 163 | 34 | 97 | 100 | 110 | 87 | 107 | 90 | 1379 |
| 150 | 151 | 45 | 48 | 154 | 43 | 162 | 35 | 104 | 93 | 88 | 109 | 89 | 108 | 1379 |
| 47 | 46 | 152 | 149 | 44 | 153 | 36 | 161 | 96 | 101 | 85 | 112 | 106 | 91 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

2.4 Part 4. $(a + b)^2$ –Type Closed Form I

This part give magic squares of order 14 based on the algebraic formula $(a + b)^2$. Here it is applied in little different way. We have taken in three different ways a magic rectangle of order 6×14 . Also different forms of magic rectangles of order 6×8 are taken. Different types of magic squares of order 8 are considered to bring magic squares of order 14. See below few examples.

| 584 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 171 | 25 | 32 | 27 | 167 | 169 | 142 | 55 | 12 | 190 | 5 | 186 | 9 | 189 | 1379 |
| 161 | 43 | 153 | 159 | 39 | 36 | 56 | 141 | 193 | 180 | 182 | 13 | 19 | 4 | 1379 |
| 162 | 155 | 46 | 151 | 42 | 35 | 51 | 146 | 187 | 20 | 174 | 23 | 177 | 10 | 1379 |
| 168 | 41 | 149 | 48 | 156 | 29 | 145 | 52 | 2 | 181 | 24 | 173 | 16 | 195 | 1379 |
| 34 | 37 | 152 | 45 | 160 | 163 | 144 | 53 | 191 | 18 | 175 | 22 | 179 | 6 | 1379 |
| 31 | 157 | 47 | 150 | 40 | 166 | 54 | 143 | 194 | 14 | 21 | 176 | 183 | 3 | 1379 |
| 33 | 158 | 44 | 38 | 154 | 164 | 49 | 148 | 1 | 178 | 15 | 184 | 17 | 196 | 1379 |
| 28 | 172 | 165 | 170 | 30 | 26 | 147 | 50 | 8 | 7 | 192 | 11 | 188 | 185 | 1379 |
| 127 | 139 | 64 | 59 | 126 | 57 | 68 | 72 | 128 | 131 | 73 | 135 | 137 | 63 | 1379 |
| 74 | 82 | 78 | 75 | 113 | 88 | 114 | 121 | 112 | 118 | 87 | 117 | 77 | 123 | 1379 |
| 61 | 111 | 99 | 95 | 103 | 101 | 93 | 106 | 100 | 92 | 107 | 89 | 86 | 136 | 1379 |
| 65 | 81 | 98 | 102 | 94 | 96 | 104 | 91 | 97 | 105 | 90 | 108 | 116 | 132 | 1379 |
| 130 | 120 | 119 | 122 | 84 | 109 | 83 | 76 | 85 | 79 | 110 | 80 | 115 | 67 | 1379 |
| 134 | 58 | 133 | 138 | 71 | 140 | 129 | 125 | 69 | 66 | 124 | 62 | 60 | 70 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 620 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 152 | 149 | 47 | 46 | 27 | 170 | 145 | 52 | 8 | 189 | 184 | 183 | 10 | 17 | 1379 |
| 45 | 48 | 150 | 151 | 25 | 172 | 51 | 146 | 182 | 15 | 13 | 14 | 187 | 180 | 1379 |
| 37 | 159 | 158 | 40 | 171 | 26 | 56 | 141 | 19 | 178 | 174 | 23 | 3 | 194 | 1379 |
| 160 | 38 | 39 | 157 | 169 | 28 | 144 | 53 | 12 | 185 | 24 | 173 | 196 | 1 | 1379 |
| 44 | 154 | 155 | 41 | 168 | 29 | 142 | 55 | 179 | 18 | 175 | 22 | 4 | 193 | 1379 |
| 153 | 43 | 42 | 156 | 166 | 31 | 54 | 143 | 191 | 6 | 21 | 176 | 195 | 2 | 1379 |
| 36 | 162 | 163 | 33 | 30 | 167 | 49 | 148 | 9 | 16 | 177 | 192 | 186 | 11 | 1379 |
| 161 | 35 | 34 | 164 | 32 | 165 | 147 | 50 | 188 | 181 | 20 | 5 | 7 | 190 | 1379 |
| 127 | 139 | 64 | 59 | 128 | 72 | 68 | 57 | 73 | 131 | 126 | 135 | 137 | 63 | 1379 |
| 74 | 82 | 78 | 75 | 87 | 113 | 114 | 121 | 112 | 118 | 88 | 117 | 77 | 123 | 1379 |
| 61 | 111 | 89 | 103 | 101 | 95 | 100 | 106 | 107 | 93 | 92 | 99 | 86 | 136 | 1379 |
| 65 | 81 | 108 | 94 | 96 | 102 | 97 | 91 | 90 | 104 | 105 | 98 | 116 | 132 | 1379 |
| 130 | 120 | 119 | 122 | 110 | 84 | 83 | 76 | 85 | 79 | 109 | 80 | 115 | 67 | 1379 |
| 134 | 58 | 133 | 138 | 69 | 125 | 129 | 140 | 124 | 66 | 71 | 62 | 60 | 70 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 678 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 668 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 32 | 159 | 170 | 172 | 26 | 37 | 161 | 31 | 192 | 5 | 13 | 184 | 21 | 176 | 1379 | 167 | 30 | 34 | 41 | 160 | 159 | 147 | 50 | 8 | 189 | 183 | 184 | 10 | 17 | 1379 |
| 29 | 154 | 152 | 41 | 158 | 42 | 44 | 168 | 195 | 2 | 183 | 14 | 175 | 22 | 1379 | 32 | 165 | 163 | 156 | 37 | 38 | 56 | 141 | 182 | 15 | 14 | 13 | 187 | 180 | 1379 |
| 163 | 40 | 55 | 144 | 49 | 146 | 157 | 34 | 3 | 194 | 182 | 15 | 174 | 23 | 1379 | 155 | 42 | 151 | 46 | 27 | 170 | 51 | 146 | 12 | 185 | 24 | 173 | 3 | 194 | 1379 |
| 35 | 46 | 50 | 145 | 56 | 143 | 151 | 162 | 193 | 4 | 16 | 181 | 24 | 173 | 1379 | 36 | 161 | 48 | 149 | 172 | 25 | 145 | 52 | 191 | 6 | 21 | 176 | 196 | 1 | 1379 |
| 169 | 48 | 148 | 51 | 142 | 53 | 149 | 28 | 1 | 196 | 17 | 179 | 178 | 20 | 1379 | 158 | 39 | 150 | 47 | 31 | 166 | 142 | 55 | 179 | 18 | 175 | 22 | 4 | 193 | 1379 |
| 164 | 150 | 141 | 54 | 147 | 52 | 47 | 33 | 6 | 191 | 180 | 18 | 19 | 177 | 1379 | 43 | 154 | 45 | 152 | 171 | 26 | 54 | 143 | 19 | 178 | 174 | 23 | 195 | 2 | 1379 |
| 30 | 153 | 45 | 156 | 39 | 155 | 43 | 167 | 190 | 7 | 9 | 187 | 186 | 12 | 1379 | 153 | 33 | 40 | 168 | 162 | 35 | 49 | 148 | 9 | 16 | 177 | 192 | 186 | 11 | 1379 |
| 166 | 38 | 27 | 25 | 171 | 160 | 36 | 165 | 8 | 189 | 188 | 10 | 11 | 185 | 1379 | 44 | 164 | 157 | 29 | 28 | 169 | 144 | 53 | 188 | 181 | 20 | 5 | 7 | 190 | 1379 |
| 126 | 61 | 63 | 127 | 67 | 64 | 125 | 129 | 140 | 79 | 82 | 119 | 69 | 128 | 1379 | 126 | 129 | 67 | 127 | 64 | 119 | 125 | 61 | 140 | 79 | 63 | 82 | 69 | 128 | 1379 |
| 71 | 136 | 134 | 70 | 130 | 133 | 72 | 68 | 57 | 118 | 115 | 78 | 132 | 65 | 1379 | 71 | 68 | 130 | 70 | 133 | 78 | 72 | 136 | 57 | 118 | 134 | 115 | 132 | 65 | 1379 |
| 122 | 75 | 108 | 93 | 106 | 96 | 97 | 103 | 98 | 90 | 92 | 102 | 80 | 117 | 1379 | 122 | 75 | 103 | 90 | 102 | 96 | 108 | 98 | 97 | 93 | 106 | 92 | 80 | 117 | 1379 |
| 121 | 76 | 89 | 104 | 91 | 101 | 100 | 94 | 99 | 107 | 105 | 95 | 113 | 84 | 1379 | 121 | 76 | 94 | 107 | 95 | 101 | 89 | 99 | 100 | 104 | 91 | 105 | 113 | 84 | 1379 |
| 66 | 131 | 137 | 83 | 124 | 123 | 77 | 109 | 86 | 135 | 81 | 58 | 59 | 110 | 1379 | 66 | 131 | 110 | 83 | 124 | 123 | 77 | 109 | 86 | 135 | 81 | 58 | 59 | 137 | 1379 |
| 85 | 112 | 60 | 114 | 73 | 74 | 120 | 88 | 111 | 62 | 116 | 139 | 138 | 87 | 1379 | 85 | 112 | 87 | 114 | 73 | 74 | 120 | 88 | 111 | 62 | 116 | 139 | 138 | 60 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| 713 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 727 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 142 | 171 | 25 | 32 | 27 | 167 | 169 | 55 | 8 | 189 | 10 | 184 | 17 | 183 | 1379 | 44 | 152 | 42 | 158 | 41 | 154 | 37 | 160 | 8 | 189 | 10 | 183 | 17 | 184 | 1379 |
| 56 | 161 | 43 | 153 | 159 | 39 | 36 | 141 | 182 | 15 | 187 | 13 | 180 | 14 | 1379 | 157 | 55 | 144 | 49 | 146 | 40 | 25 | 172 | 182 | 15 | 187 | 14 | 180 | 13 | 1379 |
| 51 | 162 | 37 | 46 | 151 | 160 | 35 | 146 | 12 | 185 | 175 | 22 | 3 | 194 | 1379 | 151 | 50 | 145 | 56 | 143 | 46 | 162 | 35 | 12 | 185 | 174 | 23 | 3 | 194 | 1379 |
| 145 | 31 | 41 | 149 | 48 | 156 | 166 | 52 | 179 | 18 | 174 | 23 | 196 | 1 | 1379 | 149 | 148 | 51 | 142 | 53 | 48 | 33 | 164 | 179 | 18 | 175 | 22 | 196 | 1 | 1379 |
| 144 | 34 | 155 | 152 | 45 | 42 | 163 | 53 | 191 | 6 | 24 | 173 | 4 | 193 | 1379 | 47 | 141 | 54 | 147 | 52 | 150 | 31 | 166 | 191 | 6 | 24 | 173 | 4 | 193 | 1379 |
| 54 | 168 | 157 | 47 | 150 | 40 | 29 | 143 | 19 | 178 | 21 | 176 | 195 | 2 | 1379 | 43 | 45 | 155 | 39 | 156 | 153 | 161 | 36 | 19 | 178 | 21 | 176 | 195 | 2 | 1379 |
| 49 | 33 | 158 | 44 | 38 | 154 | 164 | 148 | 9 | 16 | 177 | 192 | 186 | 11 | 1379 | 34 | 32 | 170 | 159 | 30 | 169 | 168 | 26 | 9 | 16 | 177 | 192 | 186 | 11 | 1379 |
| 147 | 28 | 172 | 165 | 170 | 30 | 26 | 50 | 188 | 181 | 20 | 5 | 7 | 190 | 1379 | 163 | 165 | 27 | 38 | 167 | 28 | 171 | 29 | 188 | 181 | 20 | 5 | 7 | 190 | 1379 |
| 133 | 64 | 139 | 71 | 69 | 138 | 66 | 140 | 68 | 73 | 137 | 74 | 72 | 135 | 1379 | 133 | 64 | 139 | 71 | 69 | 138 | 66 | 140 | 68 | 73 | 137 | 74 | 72 | 135 | 1379 |
| 65 | 132 | 58 | 126 | 128 | 59 | 131 | 57 | 129 | 124 | 60 | 123 | 125 | 62 | 1379 | 65 | 132 | 58 | 126 | 128 | 59 | 131 | 57 | 129 | 124 | 60 | 123 | 125 | 62 | 1379 |
| 127 | 70 | 86 | 111 | 78 | 110 | 77 | 115 | 113 | 75 | 114 | 118 | 109 | 76 | 1379 | 127 | 70 | 112 | 85 | 78 | 110 | 77 | 115 | 113 | 75 | 114 | 118 | 109 | 76 | 1379 |
| 63 | 134 | 116 | 81 | 119 | 87 | 120 | 82 | 84 | 122 | 83 | 79 | 88 | 121 | 1379 | 63 | 134 | 116 | 81 | 119 | 87 | 120 | 82 | 84 | 122 | 83 | 79 | 88 | 121 | 1379 |
| 136 | 61 | 80 | 117 | 94 | 96 | 102 | 97 | 92 | 106 | 89 | 104 | 107 | 98 | 1379 | 136 | 61 | 80 | 117 | 94 | 96 | 102 | 97 | 92 | 106 | 89 | 104 | 107 | 98 | 1379 |
| 67 | 130 | 112 | 85 | 103 | 101 | 95 | 100 | 105 | 91 | 108 | 93 | 90 | 99 | 1379 | 67 | 130 | 86 | 111 | 103 | 101 | 95 | 100 | 105 | 91 | 108 | 93 | 90 | 99 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

2.5 Part 5. $(a + b)^2$ –Type Closed Form II

This part is very much similar to previous part. Here instead of considering magic rectangles of order 6×14 , we have considered two different magic rectangles of order 6×10 and 6×4 covering the space of magic rectangles of order 6×14 . The rest of work is similar to previous part. See below few examples.

| 759 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 44 | 37 | 159 | 157 | 156 | 154 | 42 | 39 | 3 | 196 | 4 | 189 | 192 | 7 | 1379 |
| 153 | 160 | 38 | 40 | 41 | 43 | 155 | 158 | 6 | 11 | 10 | 185 | 188 | 191 | 1379 |
| 53 | 144 | 61 | 136 | 65 | 132 | 57 | 140 | 195 | 186 | 187 | 12 | 9 | 2 | 1379 |
| 56 | 141 | 135 | 62 | 131 | 66 | 60 | 137 | 190 | 1 | 193 | 8 | 5 | 194 | 1379 |
| 143 | 54 | 134 | 63 | 130 | 67 | 139 | 58 | 78 | 125 | 69 | 118 | 120 | 81 | 1379 |
| 142 | 55 | 64 | 133 | 68 | 129 | 138 | 59 | 76 | 108 | 110 | 90 | 86 | 121 | 1379 |
| 45 | 52 | 47 | 148 | 149 | 50 | 151 | 146 | 70 | 84 | 100 | 97 | 113 | 127 | 1379 |
| 152 | 145 | 150 | 49 | 48 | 147 | 46 | 51 | 124 | 92 | 99 | 98 | 105 | 73 | 1379 |
| 24 | 181 | 14 | 182 | 179 | 13 | 175 | 20 | 82 | 88 | 103 | 94 | 109 | 115 | 1379 |
| 178 | 168 | 30 | 32 | 169 | 26 | 166 | 19 | 117 | 106 | 101 | 96 | 91 | 80 | 1379 |
| 17 | 170 | 163 | 162 | 33 | 36 | 27 | 180 | 74 | 114 | 93 | 104 | 83 | 123 | 1379 |
| 174 | 25 | 34 | 35 | 164 | 161 | 172 | 23 | 122 | 85 | 95 | 102 | 112 | 75 | 1379 |
| 21 | 31 | 167 | 165 | 28 | 171 | 29 | 176 | 126 | 111 | 87 | 107 | 89 | 71 | 1379 |
| 177 | 16 | 183 | 15 | 18 | 184 | 22 | 173 | 116 | 72 | 128 | 79 | 77 | 119 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 798 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 155 | 44 | 143 | 48 | 146 | 55 | 141 | 56 | 3 | 189 | 4 | 196 | 192 | 7 | 1379 |
| 42 | 153 | 54 | 149 | 51 | 142 | 45 | 152 | 6 | 10 | 188 | 185 | 11 | 191 | 1379 |
| 46 | 151 | 139 | 60 | 138 | 57 | 52 | 145 | 195 | 187 | 9 | 12 | 186 | 2 | 1379 |
| 53 | 144 | 58 | 137 | 59 | 140 | 156 | 41 | 190 | 8 | 193 | 1 | 5 | 194 | 1379 |
| 148 | 49 | 39 | 160 | 43 | 159 | 150 | 40 | 78 | 69 | 125 | 118 | 120 | 81 | 1379 |
| 147 | 50 | 158 | 37 | 154 | 38 | 47 | 157 | 74 | 108 | 110 | 90 | 86 | 123 | 1379 |
| 132 | 68 | 63 | 133 | 130 | 66 | 61 | 135 | 117 | 84 | 100 | 97 | 113 | 80 | 1379 |
| 65 | 129 | 134 | 64 | 67 | 131 | 136 | 62 | 124 | 92 | 99 | 98 | 105 | 73 | 1379 |
| 20 | 170 | 31 | 167 | 24 | 179 | 21 | 176 | 82 | 88 | 103 | 94 | 109 | 115 | 1379 |
| 177 | 27 | 166 | 30 | 173 | 18 | 28 | 169 | 76 | 106 | 101 | 96 | 91 | 121 | 1379 |
| 22 | 175 | 36 | 33 | 163 | 162 | 165 | 32 | 70 | 114 | 93 | 104 | 83 | 127 | 1379 |
| 29 | 168 | 161 | 164 | 34 | 35 | 180 | 17 | 122 | 85 | 95 | 102 | 112 | 75 | 1379 |
| 172 | 25 | 15 | 184 | 16 | 183 | 174 | 19 | 126 | 111 | 87 | 107 | 89 | 71 | 1379 |
| 171 | 26 | 182 | 13 | 181 | 14 | 23 | 178 | 116 | 128 | 72 | 79 | 77 | 119 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 844 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 159 | 149 | 150 | 43 | 156 | 46 | 45 | 40 | 3 | 4 | 189 | 196 | 192 | 7 | 1379 |
| 37 | 55 | 53 | 49 | 143 | 145 | 146 | 160 | 6 | 11 | 185 | 10 | 188 | 191 | 1379 |
| 44 | 141 | 58 | 140 | 137 | 59 | 56 | 153 | 195 | 186 | 12 | 187 | 9 | 2 | 1379 |
| 39 | 147 | 139 | 57 | 60 | 138 | 50 | 158 | 190 | 193 | 8 | 1 | 5 | 194 | 1379 |
| 155 | 51 | 144 | 148 | 54 | 52 | 142 | 42 | 71 | 126 | 116 | 106 | 84 | 88 | 1379 |
| 157 | 48 | 47 | 154 | 41 | 151 | 152 | 38 | 69 | 128 | 81 | 91 | 113 | 109 | 1379 |
| 61 | 68 | 63 | 133 | 130 | 66 | 132 | 135 | 127 | 70 | 97 | 100 | 77 | 120 | 1379 |
| 136 | 129 | 134 | 64 | 67 | 131 | 65 | 62 | 92 | 105 | 102 | 95 | 82 | 115 | 1379 |
| 20 | 179 | 24 | 167 | 31 | 170 | 21 | 176 | 124 | 73 | 98 | 99 | 114 | 83 | 1379 |
| 177 | 18 | 173 | 30 | 166 | 27 | 28 | 169 | 107 | 90 | 96 | 101 | 111 | 86 | 1379 |
| 172 | 25 | 162 | 33 | 163 | 36 | 165 | 32 | 119 | 78 | 104 | 93 | 76 | 121 | 1379 |
| 171 | 26 | 35 | 164 | 34 | 161 | 180 | 17 | 79 | 118 | 94 | 103 | 117 | 80 | 1379 |
| 29 | 168 | 15 | 184 | 16 | 183 | 174 | 19 | 125 | 110 | 74 | 85 | 122 | 75 | 1379 |
| 22 | 175 | 182 | 13 | 181 | 14 | 23 | 178 | 72 | 87 | 123 | 112 | 89 | 108 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 870 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 159 | 149 | 150 | 43 | 156 | 46 | 45 | 40 | 5 | 192 | 9 | 12 | 187 | 186 | 1379 |
| 37 | 55 | 53 | 49 | 143 | 145 | 146 | 160 | 191 | 6 | 188 | 185 | 10 | 11 | 1379 |
| 44 | 141 | 58 | 140 | 137 | 59 | 56 | 153 | 190 | 7 | 4 | 1 | 194 | 195 | 1379 |
| 39 | 147 | 139 | 57 | 60 | 138 | 50 | 158 | 8 | 189 | 193 | 196 | 3 | 2 | 1379 |
| 155 | 51 | 144 | 148 | 54 | 52 | 142 | 42 | 71 | 126 | 116 | 106 | 84 | 88 | 1379 |
| 157 | 48 | 47 | 154 | 41 | 151 | 152 | 38 | 69 | 128 | 81 | 91 | 113 | 109 | 1379 |
| 61 | 68 | 63 | 133 | 130 | 66 | 132 | 135 | 127 | 70 | 97 | 100 | 77 | 120 | 1379 |
| 136 | 129 | 134 | 64 | 67 | 131 | 65 | 62 | 92 | 105 | 102 | 95 | 82 | 115 | 1379 |
| 20 | 183 | 15 | 13 | 181 | 178 | 180 | 18 | 124 | 73 | 98 | 99 | 114 | 83 | 1379 |
| 177 | 14 | 182 | 184 | 16 | 19 | 17 | 179 | 107 | 90 | 96 | 101 | 111 | 86 | 1379 |
| 170 | 171 | 25 | 28 | 29 | 168 | 21 | 176 | 119 | 78 | 104 | 93 | 76 | 121 | 1379 |
| 27 | 26 | 172 | 169 | 167 | 30 | 175 | 22 | 79 | 118 | 94 | 103 | 117 | 80 | 1379 |
| 33 | 36 | 163 | 162 | 166 | 31 | 174 | 23 | 125 | 110 | 74 | 85 | 122 | 75 | 1379 |
| 164 | 161 | 34 | 35 | 32 | 165 | 24 | 173 | 72 | 87 | 123 | 112 | 89 | 108 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 902 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 932 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 155 | 44 | 143 | 48 | 146 | 55 | 141 | 56 | 5 | 192 | 186 | 12 | 187 | 9 | 1379 | 58 | 139 | 49 | 148 | 56 | 141 | 48 | 149 | 99 | 98 | 194 | 3 | 9 | 188 | 1379 |
| 42 | 153 | 54 | 149 | 51 | 142 | 45 | 152 | 191 | 6 | 11 | 185 | 10 | 188 | 1379 | 140 | 57 | 147 | 50 | 142 | 55 | 150 | 47 | 100 | 97 | 195 | 2 | 187 | 10 | 1379 |
| 46 | 151 | 139 | 60 | 138 | 57 | 52 | 145 | 190 | 7 | 1 | 4 | 194 | 195 | 1379 | 59 | 138 | 146 | 51 | 143 | 54 | 151 | 46 | 95 | 102 | 1 | 196 | 12 | 185 | 1379 |
| 53 | 144 | 58 | 137 | 59 | 140 | 156 | 41 | 8 | 189 | 196 | 193 | 3 | 2 | 1379 | 137 | 60 | 52 | 145 | 53 | 144 | 45 | 152 | 101 | 96 | 4 | 193 | 186 | 11 | 1379 |
| 148 | 49 | 39 | 160 | 43 | 159 | 150 | 40 | 103 | 93 | 95 | 101 | 100 | 99 | 1379 | 39 | 37 | 159 | 156 | 157 | 154 | 42 | 44 | 93 | 104 | 5 | 191 | 190 | 8 | 1379 |
| 147 | 50 | 158 | 37 | 154 | 38 | 47 | 157 | 94 | 104 | 102 | 96 | 97 | 98 | 1379 | 158 | 160 | 38 | 41 | 40 | 43 | 155 | 153 | 103 | 94 | 192 | 6 | 7 | 189 | 1379 |
| 132 | 68 | 63 | 133 | 130 | 66 | 61 | 135 | 69 | 128 | 77 | 119 | 118 | 80 | 1379 | 133 | 63 | 68 | 132 | 130 | 66 | 61 | 135 | 122 | 75 | 77 | 119 | 118 | 80 | 1379 |
| 65 | 129 | 134 | 64 | 67 | 131 | 136 | 62 | 127 | 70 | 120 | 78 | 79 | 117 | 1379 | 64 | 134 | 129 | 65 | 67 | 131 | 136 | 62 | 71 | 126 | 120 | 78 | 79 | 117 | 1379 |
| 13 | 183 | 18 | 181 | 180 | 15 | 178 | 20 | 74 | 123 | 85 | 111 | 110 | 88 | 1379 | 20 | 170 | 179 | 167 | 24 | 31 | 21 | 176 | 76 | 121 | 85 | 111 | 110 | 88 | 1379 |
| 184 | 14 | 179 | 16 | 17 | 182 | 19 | 177 | 124 | 73 | 112 | 86 | 87 | 109 | 1379 | 177 | 27 | 18 | 30 | 173 | 166 | 28 | 169 | 69 | 128 | 112 | 86 | 87 | 109 | 1379 |
| 170 | 28 | 25 | 171 | 29 | 168 | 21 | 176 | 125 | 72 | 114 | 83 | 92 | 105 | 1379 | 22 | 175 | 162 | 33 | 163 | 36 | 165 | 32 | 125 | 72 | 115 | 82 | 92 | 105 | 1379 |
| 27 | 169 | 172 | 26 | 167 | 30 | 175 | 22 | 71 | 126 | 81 | 116 | 107 | 90 | 1379 | 171 | 26 | 35 | 164 | 34 | 161 | 180 | 17 | 74 | 123 | 81 | 116 | 106 | 91 | 1379 |
| 33 | 163 | 162 | 36 | 166 | 31 | 174 | 23 | 122 | 75 | 84 | 113 | 106 | 91 | 1379 | 172 | 25 | 15 | 184 | 16 | 183 | 174 | 19 | 124 | 73 | 84 | 113 | 107 | 90 | 1379 |
| 164 | 34 | 35 | 161 | 32 | 165 | 24 | 173 | 76 | 121 | 115 | 82 | 89 | 108 | 1379 | 29 | 168 | 182 | 13 | 181 | 14 | 23 | 178 | 127 | 70 | 114 | 83 | 89 | 108 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

2.6 Part 6. Double Digits Embedded With Magic Squares of Order 10

This part is based on double digit magic squares. To bring magic squares of order 14, we have embedded it with magic squares of order 10. The idea of double digits magic square is given above in a reference list. See below few examples.

| 943 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 955 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 | 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 |
| 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 | 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 |
| 37 | 160 | 89 | 108 | 81 | 116 | 69 | 128 | 141 | 56 | 61 | 136 | 183 | 14 | 1379 | 37 | 160 | 96 | 107 | 91 | 105 | 93 | 103 | 102 | 89 | 100 | 99 | 183 | 14 | 1379 |
| 159 | 38 | 106 | 91 | 115 | 82 | 127 | 70 | 140 | 57 | 135 | 62 | 181 | 16 | 1379 | 159 | 38 | 55 | 146 | 140 | 54 | 145 | 56 | 58 | 50 | 137 | 144 | 181 | 16 | 1379 |
| 39 | 158 | 107 | 90 | 84 | 113 | 71 | 126 | 55 | 142 | 63 | 134 | 180 | 17 | 1379 | 39 | 158 | 148 | 131 | 68 | 61 | 135 | 65 | 134 | 64 | 130 | 49 | 180 | 17 | 1379 |
| 157 | 40 | 92 | 105 | 114 | 83 | 124 | 73 | 60 | 137 | 133 | 64 | 179 | 18 | 1379 | 157 | 40 | 138 | 66 | 129 | 136 | 62 | 132 | 63 | 133 | 67 | 59 | 179 | 18 | 1379 |
| 156 | 41 | 85 | 111 | 110 | 88 | 125 | 72 | 138 | 59 | 132 | 65 | 19 | 178 | 1379 | 156 | 41 | 53 | 51 | 57 | 143 | 52 | 141 | 139 | 147 | 60 | 142 | 19 | 178 | 1379 |
| 155 | 42 | 112 | 86 | 87 | 109 | 74 | 123 | 58 | 139 | 66 | 131 | 20 | 177 | 1379 | 155 | 42 | 75 | 117 | 120 | 74 | 76 | 125 | 78 | 70 | 126 | 124 | 20 | 177 | 1379 |
| 43 | 154 | 77 | 119 | 118 | 80 | 122 | 75 | 143 | 54 | 130 | 67 | 21 | 176 | 1379 | 43 | 154 | 128 | 111 | 88 | 115 | 84 | 81 | 110 | 114 | 85 | 69 | 21 | 176 | 1379 |
| 44 | 153 | 120 | 78 | 79 | 117 | 76 | 121 | 53 | 144 | 68 | 129 | 175 | 22 | 1379 | 44 | 153 | 118 | 86 | 109 | 82 | 113 | 116 | 87 | 83 | 112 | 79 | 175 | 22 | 1379 |
| 45 | 152 | 93 | 103 | 95 | 101 | 100 | 99 | 49 | 147 | 52 | 146 | 23 | 174 | 1379 | 45 | 152 | 73 | 80 | 77 | 123 | 121 | 72 | 119 | 127 | 71 | 122 | 23 | 174 | 1379 |
| 47 | 150 | 104 | 94 | 102 | 96 | 97 | 98 | 148 | 50 | 145 | 51 | 173 | 24 | 1379 | 47 | 150 | 101 | 90 | 106 | 92 | 104 | 94 | 95 | 108 | 97 | 98 | 173 | 24 | 1379 |
| 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 | 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 |
| 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 | 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| 965 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 970 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 | 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 19 | 178 | 1379 |
| 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 | 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 |
| 37 | 160 | 52 | 146 | 49 | 147 | 96 | 101 | 69 | 127 | 126 | 72 | 183 | 14 | 1379 | 37 | 160 | 75 | 126 | 69 | 124 | 98 | 99 | 81 | 88 | 115 | 110 | 183 | 14 | 1379 |
| 159 | 38 | 145 | 51 | 148 | 50 | 107 | 90 | 128 | 70 | 71 | 125 | 181 | 16 | 1379 | 159 | 38 | 121 | 77 | 120 | 76 | 97 | 100 | 113 | 107 | 90 | 84 | 181 | 16 | 1379 |
| 39 | 158 | 142 | 56 | 143 | 53 | 91 | 106 | 73 | 123 | 122 | 76 | 180 | 17 | 1379 | 39 | 158 | 127 | 118 | 79 | 70 | 102 | 95 | 85 | 92 | 105 | 112 | 180 | 17 | 1379 |
| 157 | 40 | 55 | 141 | 54 | 144 | 99 | 98 | 124 | 74 | 75 | 121 | 179 | 18 | 1379 | 157 | 40 | 123 | 80 | 117 | 74 | 96 | 101 | 111 | 89 | 108 | 86 | 179 | 18 | 1379 |
| 156 | 41 | 61 | 135 | 134 | 64 | 105 | 92 | 81 | 115 | 114 | 84 | 19 | 178 | 1379 | 156 | 41 | 72 | 119 | 78 | 125 | 104 | 93 | 114 | 106 | 91 | 83 | 13 | 184 | 1379 |
| 155 | 42 | 136 | 62 | 63 | 133 | 89 | 108 | 116 | 82 | 83 | 113 | 20 | 177 | 1379 | 155 | 42 | 73 | 71 | 128 | 122 | 94 | 103 | 87 | 109 | 82 | 116 | 20 | 177 | 1379 |
| 43 | 154 | 65 | 131 | 130 | 68 | 102 | 95 | 80 | 118 | 77 | 119 | 21 | 176 | 1379 | 43 | 154 | 55 | 56 | 54 | 146 | 145 | 58 | 137 | 50 | 140 | 144 | 21 | 176 | 1379 |
| 44 | 153 | 132 | 66 | 67 | 129 | 103 | 94 | 117 | 79 | 120 | 78 | 175 | 22 | 1379 | 44 | 153 | 148 | 130 | 135 | 131 | 68 | 134 | 65 | 61 | 64 | 49 | 175 | 22 | 1379 |
| 45 | 152 | 57 | 139 | 138 | 60 | 100 | 97 | 110 | 88 | 111 | 85 | 23 | 174 | 1379 | 45 | 152 | 138 | 67 | 62 | 66 | 129 | 63 | 132 | 136 | 133 | 59 | 23 | 174 | 1379 |
| 47 | 150 | 140 | 58 | 59 | 137 | 93 | 104 | 87 | 109 | 86 | 112 | 173 | 24 | 1379 | 47 | 150 | 53 | 141 | 143 | 51 | 52 | 139 | 60 | 147 | 57 | 142 | 173 | 24 | 1379 |
| 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 | 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 |
| 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 | 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| 984 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 1033 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 | 1 | 3 | 195 | 193 | 192 | 191 | 7 | 8 | 9 | 187 | 11 | 185 | 13 | 184 | 1379 |
| 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 15 | 182 | 1379 | 196 | 194 | 2 | 4 | 5 | 6 | 190 | 189 | 188 | 10 | 186 | 12 | 23 | 174 | 1379 |
| 37 | 160 | 86 | 110 | 84 | 116 | 83 | 112 | 69 | 128 | 77 | 120 | 183 | 14 | 1379 | 37 | 160 | 106 | 91 | 81 | 116 | 96 | 101 | 127 | 70 | 118 | 79 | 183 | 14 | 1379 |
| 159 | 38 | 115 | 97 | 102 | 91 | 104 | 82 | 127 | 70 | 118 | 79 | 181 | 16 | 1379 | 159 | 38 | 89 | 108 | 115 | 82 | 97 | 100 | 69 | 128 | 80 | 117 | 181 | 16 | 1379 |
| 39 | 158 | 109 | 92 | 103 | 98 | 101 | 88 | 126 | 71 | 119 | 78 | 180 | 17 | 1379 | 39 | 158 | 107 | 90 | 114 | 83 | 102 | 95 | 126 | 71 | 119 | 78 | 180 | 17 | 1379 |
| 157 | 40 | 107 | 106 | 93 | 100 | 95 | 90 | 72 | 125 | 80 | 117 | 179 | 18 | 1379 | 157 | 40 | 92 | 105 | 84 | 113 | 94 | 103 | 72 | 125 | 77 | 120 | 179 | 18 | 1379 |
| 156 | 41 | 89 | 99 | 96 | 105 | 94 | 108 | 73 | 123 | 122 | 76 | 19 | 178 | 1379 | 156 | 41 | 85 | 111 | 110 | 88 | 104 | 93 | 73 | 123 | 122 | 76 | 19 | 178 | 1379 |
| 155 | 42 | 85 | 87 | 113 | 81 | 114 | 111 | 124 | 74 | 75 | 121 | 20 | 177 | 1379 | 155 | 42 | 112 | 86 | 87 | 109 | 98 | 99 | 124 | 74 | 75 | 121 | 20 | 177 | 1379 |
| 43 | 154 | 57 | 139 | 138 | 60 | 61 | 136 | 55 | 144 | 49 | 146 | 21 | 176 | 1379 | 43 | 154 | 52 | 145 | 60 | 53 | 55 | 58 | 143 | 140 | 141 | 138 | 21 | 176 | 1379 |
| 44 | 153 | 140 | 58 | 59 | 137 | 135 | 62 | 50 | 145 | 56 | 143 | 175 | 22 | 1379 | 44 | 153 | 147 | 50 | 137 | 144 | 142 | 139 | 54 | 57 | 56 | 59 | 175 | 22 | 1379 |
| 45 | 152 | 65 | 131 | 130 | 68 | 134 | 63 | 148 | 51 | 142 | 53 | 23 | 174 | 1379 | 45 | 152 | 49 | 148 | 66 | 135 | 61 | 133 | 132 | 63 | 68 | 130 | 15 | 182 | 1379 |
| 47 | 150 | 132 | 66 | 67 | 129 | 64 | 133 | 141 | 54 | 147 | 52 | 173 | 24 | 1379 | 47 | 150 | 146 | 51 | 131 | 62 | 136 | 64 | 65 | 134 | 129 | 67 | 173 | 24 | 1379 |
| 151 | 46 | 25 | 171 | 27 | 169 | 168 | 167 | 31 | 32 | 33 | 35 | 163 | 161 | 1379 | 151 | 46 | 25 | 171 | 27 | 163 | 168 | 167 | 31 | 32 | 33 | 35 | 169 | 161 | 1379 |
| 149 | 48 | 172 | 26 | 170 | 28 | 29 | 30 | 166 | 165 | 164 | 162 | 34 | 36 | 1379 | 149 | 48 | 172 | 26 | 170 | 34 | 29 | 30 | 166 | 165 | 164 | 162 | 28 | 36 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

2.7 Part 7. Cornered Magic Squares

This part brings cornered magic squares of order 14. These are of nested type. It allows us to write magic squares up to order 14 in the beginning. It is done after some adjustment. More details on cornered magic squares are given in a reference list given in the beginning of the work. See below few examples.

| 1130 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 91 | 106 | 86 | 111 | 83 | 114 | 77 | 120 | 132 | 65 | 169 | 28 | 192 | 5 | 1379 |
| 108 | 89 | 109 | 88 | 116 | 81 | 117 | 80 | 66 | 131 | 149 | 48 | 183 | 14 | 1379 |
| 90 | 107 | 112 | 85 | 82 | 115 | 130 | 67 | 60 | 137 | 159 | 38 | 13 | 184 | 1379 |
| 105 | 92 | 87 | 110 | 113 | 84 | 123 | 74 | 134 | 63 | 45 | 152 | 171 | 26 | 1379 |
| 101 | 93 | 100 | 99 | 95 | 103 | 72 | 125 | 51 | 146 | 158 | 39 | 178 | 19 | 1379 |
| 96 | 104 | 97 | 98 | 102 | 94 | 69 | 128 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 |
| 79 | 70 | 68 | 126 | 122 | 78 | 124 | 121 | 61 | 136 | 164 | 33 | 7 | 190 | 1379 |
| 118 | 127 | 129 | 71 | 75 | 119 | 76 | 73 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 |
| 49 | 64 | 50 | 62 | 145 | 54 | 140 | 138 | 142 | 141 | 42 | 155 | 25 | 172 | 1379 |
| 148 | 133 | 147 | 135 | 52 | 143 | 57 | 59 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 |
| 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 189 | 8 | 1379 |
| 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 |
| 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 1155 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 88 | 109 | 79 | 118 | 86 | 111 | 78 | 119 | 132 | 65 | 158 | 39 | 192 | 5 | 1379 |
| 110 | 87 | 117 | 80 | 112 | 85 | 120 | 77 | 51 | 146 | 149 | 48 | 189 | 8 | 1379 |
| 89 | 108 | 116 | 81 | 113 | 84 | 121 | 76 | 60 | 137 | 164 | 33 | 13 | 184 | 1379 |
| 107 | 90 | 82 | 115 | 83 | 114 | 75 | 122 | 134 | 63 | 42 | 155 | 183 | 14 | 1379 |
| 69 | 67 | 129 | 127 | 126 | 124 | 72 | 74 | 66 | 131 | 159 | 38 | 178 | 19 | 1379 |
| 128 | 130 | 68 | 70 | 71 | 73 | 125 | 123 | 139 | 58 | 150 | 47 | 11 | 186 | 1379 |
| 103 | 93 | 98 | 102 | 100 | 96 | 91 | 105 | 61 | 136 | 169 | 28 | 7 | 190 | 1379 |
| 94 | 104 | 99 | 95 | 97 | 101 | 106 | 92 | 144 | 53 | 40 | 157 | 23 | 174 | 1379 |
| 49 | 64 | 54 | 62 | 138 | 50 | 145 | 140 | 142 | 141 | 45 | 152 | 25 | 172 | 1379 |
| 148 | 133 | 143 | 135 | 59 | 147 | 52 | 57 | 56 | 55 | 31 | 166 | 17 | 180 | 1379 |
| 46 | 27 | 35 | 168 | 167 | 153 | 163 | 41 | 160 | 36 | 32 | 154 | 171 | 26 | 1379 |
| 151 | 170 | 162 | 29 | 30 | 44 | 34 | 156 | 37 | 161 | 43 | 165 | 182 | 15 | 1379 |
| 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 1172 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 30 | 27 | 169 | 168 | 31 | 165 | 164 | 34 | 35 | 38 | 160 | 161 | 189 | 8 | 1379 |
| 167 | 170 | 28 | 29 | 166 | 32 | 33 | 163 | 162 | 159 | 37 | 36 | 178 | 19 | 1379 |
| 63 | 134 | 73 | 126 | 67 | 128 | 81 | 118 | 75 | 120 | 153 | 44 | 13 | 184 | 1379 |
| 133 | 64 | 68 | 127 | 74 | 125 | 76 | 119 | 82 | 117 | 156 | 41 | 171 | 26 | 1379 |
| 132 | 65 | 130 | 69 | 124 | 71 | 122 | 77 | 116 | 79 | 157 | 40 | 192 | 5 | 1379 |
| 66 | 131 | 123 | 72 | 129 | 70 | 115 | 80 | 121 | 78 | 42 | 155 | 11 | 186 | 1379 |
| 59 | 138 | 89 | 110 | 83 | 112 | 97 | 102 | 91 | 104 | 43 | 154 | 7 | 190 | 1379 |
| 137 | 60 | 84 | 111 | 90 | 109 | 92 | 103 | 98 | 101 | 39 | 158 | 23 | 174 | 1379 |
| 136 | 61 | 114 | 85 | 108 | 87 | 106 | 93 | 100 | 95 | 152 | 45 | 25 | 172 | 1379 |
| 62 | 135 | 107 | 88 | 113 | 86 | 99 | 96 | 105 | 94 | 46 | 151 | 17 | 180 | 1379 |
| 141 | 140 | 58 | 55 | 51 | 145 | 144 | 54 | 148 | 149 | 47 | 50 | 183 | 14 | 1379 |
| 56 | 57 | 139 | 142 | 146 | 52 | 53 | 143 | 49 | 48 | 150 | 147 | 182 | 15 | 1379 |
| 187 | 195 | 16 | 1 | 177 | 194 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| 10 | 2 | 181 | 196 | 20 | 3 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 1422 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 149 | 48 | 53 | 166 | 145 | 30 | 68 | 128 | 65 | 134 | 66 | 130 | 192 | 5 | 1379 |
| 168 | 29 | 144 | 31 | 52 | 167 | 133 | 79 | 120 | 73 | 122 | 64 | 171 | 26 | 1379 |
| 148 | 49 | 58 | 139 | 38 | 159 | 127 | 74 | 121 | 80 | 119 | 70 | 13 | 184 | 1379 |
| 43 | 154 | 140 | 57 | 33 | 164 | 125 | 124 | 75 | 118 | 77 | 72 | 182 | 15 | 1379 |
| 34 | 163 | 61 | 136 | 146 | 51 | 71 | 117 | 78 | 123 | 76 | 126 | 178 | 19 | 1379 |
| 39 | 158 | 138 | 59 | 45 | 152 | 67 | 69 | 132 | 63 | 131 | 129 | 11 | 186 | 1379 |
| 46 | 151 | 60 | 137 | 47 | 150 | 94 | 103 | 84 | 115 | 81 | 114 | 7 | 190 | 1379 |
| 160 | 37 | 141 | 56 | 153 | 44 | 102 | 95 | 113 | 82 | 116 | 83 | 23 | 174 | 1379 |
| 156 | 41 | 135 | 62 | 35 | 162 | 98 | 99 | 110 | 87 | 92 | 105 | 25 | 172 | 1379 |
| 42 | 155 | 55 | 142 | 170 | 27 | 97 | 100 | 85 | 112 | 107 | 90 | 17 | 180 | 1379 |
| 147 | 165 | 28 | 54 | 161 | 36 | 104 | 93 | 88 | 109 | 89 | 108 | 189 | 8 | 1379 |
| 50 | 32 | 169 | 143 | 157 | 40 | 96 | 101 | 111 | 86 | 106 | 91 | 183 | 14 | 1379 |
| 177 | 21 | 12 | 194 | 175 | 195 | 6 | 16 | 24 | 1 | 4 | 187 | 179 | 188 | 1379 |
| 20 | 176 | 185 | 3 | 22 | 2 | 191 | 181 | 173 | 196 | 193 | 10 | 9 | 18 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 1607 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 1684 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78 | 120 | 121 | 75 | 74 | 124 | 125 | 71 | 55 | 140 | 141 | 58 | 171 | 26 | 1379 | 159 | 152 | 150 | 167 | 169 | 48 | 46 | 44 | 31 | 29 | 27 | 160 | 192 | 5 | 1379 |
| 119 | 77 | 76 | 122 | 123 | 73 | 72 | 126 | 142 | 57 | 56 | 139 | 192 | 5 | 1379 | 43 | 144 | 69 | 120 | 61 | 68 | 66 | 122 | 139 | 141 | 55 | 154 | 183 | 14 | 1379 |
| 93 | 103 | 106 | 92 | 79 | 117 | 116 | 82 | 165 | 31 | 164 | 34 | 13 | 184 | 1379 | 40 | 53 | 128 | 77 | 136 | 129 | 131 | 75 | 58 | 56 | 142 | 157 | 13 | 184 | 1379 |
| 104 | 94 | 91 | 105 | 118 | 80 | 81 | 115 | 32 | 166 | 33 | 163 | 183 | 14 | 1379 | 34 | 133 | 64 | 102 | 97 | 98 | 96 | 94 | 104 | 130 | 67 | 163 | 182 | 15 | 1379 |
| 67 | 129 | 128 | 70 | 109 | 87 | 90 | 108 | 27 | 169 | 168 | 30 | 178 | 19 | 1379 | 39 | 52 | 145 | 107 | 90 | 84 | 113 | 88 | 109 | 140 | 57 | 158 | 178 | 19 | 1379 |
| 130 | 68 | 69 | 127 | 88 | 110 | 107 | 89 | 170 | 28 | 29 | 167 | 11 | 186 | 1379 | 32 | 78 | 119 | 92 | 105 | 114 | 83 | 111 | 86 | 73 | 124 | 165 | 11 | 186 | 1379 |
| 86 | 112 | 113 | 83 | 97 | 99 | 102 | 96 | 35 | 161 | 160 | 38 | 7 | 190 | 1379 | 155 | 54 | 143 | 89 | 108 | 115 | 82 | 85 | 112 | 49 | 148 | 42 | 7 | 190 | 1379 |
| 111 | 85 | 84 | 114 | 100 | 98 | 95 | 101 | 162 | 36 | 37 | 159 | 23 | 174 | 1379 | 156 | 127 | 70 | 106 | 91 | 81 | 116 | 110 | 87 | 76 | 121 | 41 | 23 | 174 | 1379 |
| 39 | 158 | 50 | 147 | 152 | 45 | 51 | 146 | 136 | 61 | 63 | 134 | 25 | 172 | 1379 | 161 | 147 | 50 | 95 | 100 | 99 | 101 | 103 | 93 | 123 | 74 | 36 | 25 | 172 | 1379 |
| 157 | 40 | 149 | 48 | 43 | 154 | 145 | 52 | 137 | 60 | 66 | 131 | 17 | 180 | 1379 | 162 | 51 | 137 | 65 | 72 | 126 | 135 | 118 | 80 | 63 | 138 | 35 | 17 | 180 | 1379 |
| 42 | 155 | 47 | 150 | 153 | 44 | 144 | 53 | 59 | 138 | 133 | 64 | 189 | 8 | 1379 | 164 | 146 | 60 | 132 | 125 | 71 | 62 | 79 | 117 | 134 | 59 | 33 | 189 | 8 | 1379 |
| 156 | 41 | 148 | 49 | 46 | 151 | 54 | 143 | 62 | 135 | 132 | 65 | 182 | 15 | 1379 | 37 | 45 | 47 | 30 | 28 | 149 | 151 | 153 | 166 | 168 | 170 | 38 | 171 | 26 | 1379 |
| 194 | 175 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 187 | 179 | 188 | 1379 | 194 | 187 | 16 | 1 | 177 | 195 | 6 | 21 | 24 | 12 | 4 | 175 | 179 | 188 | 1379 |
| 3 | 22 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 10 | 9 | 18 | 1379 | 3 | 10 | 181 | 196 | 20 | 2 | 191 | 176 | 173 | 185 | 193 | 22 | 9 | 18 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

2.8 Part 8. $(a + b)^2$ -Type, where $a = 10$ and $b = 4$

This part give some magic square of order 14 based on the algebraic formula $(a + b)^2$. Here $a = 10$ and $b = 4$. It is written in two different way. One call as open form, where we have used magic square of order 4 at the corner. The other two are magic rectangles of order 4×10 . Since we have many magic squares of order 10. Replacing different forms of magic square of order 10, we get magic square of order 14. See below few examples.

| 1818 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | 1899 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96 | 107 | 91 | 105 | 93 | 103 | 102 | 89 | 99 | 100 | 35 | 168 | 158 | 33 | 1379 | 144 | 69 | 120 | 61 | 68 | 66 | 122 | 139 | 141 | 55 | 35 | 168 | 158 | 33 | 1379 |
| 128 | 129 | 72 | 134 | 143 | 56 | 51 | 75 | 59 | 138 | 157 | 150 | 47 | 40 | 1379 | 53 | 128 | 77 | 136 | 129 | 131 | 75 | 58 | 56 | 142 | 166 | 48 | 149 | 31 | 1379 |
| 69 | 68 | 125 | 63 | 54 | 141 | 146 | 122 | 65 | 132 | 160 | 45 | 152 | 37 | 1379 | 133 | 64 | 86 | 110 | 84 | 116 | 83 | 112 | 130 | 67 | 165 | 151 | 46 | 32 | 1379 |
| 62 | 135 | 119 | 77 | 116 | 83 | 79 | 117 | 140 | 57 | 38 | 155 | 42 | 159 | 1379 | 52 | 145 | 115 | 97 | 102 | 91 | 104 | 82 | 49 | 148 | 157 | 44 | 153 | 40 | 1379 |
| 142 | 55 | 82 | 86 | 87 | 112 | 109 | 115 | 123 | 74 | 34 | 154 | 43 | 163 | 1379 | 78 | 119 | 109 | 92 | 103 | 98 | 101 | 88 | 73 | 124 | 36 | 150 | 47 | 161 | 1379 |
| 60 | 137 | 113 | 111 | 110 | 85 | 88 | 84 | 131 | 66 | 165 | 48 | 149 | 32 | 1379 | 54 | 143 | 107 | 106 | 93 | 100 | 95 | 90 | 140 | 57 | 160 | 41 | 156 | 37 | 1379 |
| 52 | 145 | 80 | 120 | 81 | 114 | 118 | 78 | 73 | 124 | 166 | 151 | 46 | 31 | 1379 | 127 | 70 | 89 | 99 | 96 | 105 | 94 | 108 | 76 | 121 | 38 | 155 | 42 | 159 | 1379 |
| 127 | 70 | 133 | 136 | 71 | 139 | 53 | 50 | 76 | 130 | 30 | 41 | 156 | 167 | 1379 | 147 | 50 | 85 | 87 | 113 | 81 | 114 | 111 | 123 | 74 | 30 | 45 | 152 | 167 | 1379 |
| 148 | 49 | 64 | 61 | 126 | 58 | 144 | 147 | 121 | 67 | 36 | 44 | 153 | 161 | 1379 | 51 | 137 | 65 | 72 | 126 | 80 | 118 | 135 | 63 | 138 | 34 | 154 | 43 | 163 | 1379 |
| 101 | 90 | 106 | 92 | 104 | 94 | 95 | 108 | 98 | 97 | 164 | 29 | 39 | 162 | 1379 | 146 | 60 | 132 | 125 | 71 | 117 | 79 | 62 | 134 | 59 | 164 | 29 | 39 | 162 | 1379 |
| 184 | 177 | 180 | 186 | 16 | 185 | 18 | 10 | 14 | 15 | 7 | 192 | 1 | 194 | 1379 | 15 | 177 | 180 | 185 | 16 | 14 | 18 | 10 | 186 | 184 | 7 | 192 | 1 | 194 | 1379 |
| 9 | 21 | 174 | 170 | 28 | 171 | 175 | 25 | 24 | 188 | 2 | 193 | 8 | 191 | 1379 | 188 | 171 | 28 | 24 | 175 | 21 | 170 | 25 | 174 | 9 | 2 | 193 | 8 | 191 | 1379 |
| 19 | 176 | 23 | 27 | 169 | 26 | 22 | 172 | 173 | 178 | 196 | 3 | 190 | 5 | 1379 | 178 | 26 | 169 | 173 | 22 | 176 | 27 | 172 | 23 | 19 | 196 | 3 | 190 | 5 | 1379 |
| 182 | 20 | 17 | 11 | 181 | 12 | 179 | 187 | 183 | 13 | 189 | 6 | 195 | 4 | 1379 | 13 | 20 | 17 | 12 | 181 | 183 | 179 | 187 | 11 | 182 | 189 | 6 | 195 | 4 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | |

| 1876 | 14x14 Inder J. Taneja https://numbers-magic.com/ @IJTANEJA ©IJT | | | | | | | | | | | | | 1379 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96 | 97 | 98 | 104 | 94 | 102 | 124 | 69 | 126 | 75 | 162 | 29 | 39 | 164 | 1379 |
| 106 | 91 | 84 | 113 | 110 | 87 | 74 | 80 | 117 | 123 | 40 | 150 | 47 | 157 | 1379 |
| 92 | 105 | 115 | 82 | 88 | 109 | 76 | 77 | 120 | 121 | 37 | 154 | 43 | 160 | 1379 |
| 89 | 108 | 114 | 83 | 85 | 112 | 125 | 119 | 78 | 72 | 167 | 44 | 153 | 30 | 1379 |
| 107 | 90 | 81 | 116 | 111 | 86 | 70 | 118 | 79 | 127 | 161 | 48 | 149 | 36 | 1379 |
| 101 | 100 | 99 | 93 | 103 | 95 | 122 | 128 | 71 | 73 | 32 | 41 | 156 | 165 | 1379 |
| 144 | 58 | 54 | 137 | 56 | 145 | 140 | 50 | 146 | 55 | 159 | 155 | 42 | 38 | 1379 |
| 49 | 61 | 68 | 64 | 65 | 131 | 135 | 134 | 130 | 148 | 31 | 45 | 152 | 166 | 1379 |
| 59 | 136 | 129 | 133 | 132 | 66 | 62 | 63 | 67 | 138 | 163 | 151 | 46 | 34 | 1379 |
| 142 | 139 | 143 | 60 | 141 | 52 | 57 | 147 | 51 | 53 | 33 | 168 | 158 | 35 | 1379 |
| 13 | 20 | 17 | 187 | 181 | 183 | 179 | 12 | 11 | 182 | 7 | 192 | 1 | 194 | 1379 |
| 188 | 170 | 28 | 25 | 175 | 21 | 171 | 24 | 174 | 9 | 2 | 193 | 8 | 191 | 1379 |
| 178 | 27 | 169 | 172 | 22 | 176 | 26 | 173 | 23 | 19 | 196 | 3 | 190 | 5 | 1379 |
| 15 | 177 | 180 | 10 | 16 | 14 | 18 | 185 | 186 | 184 | 189 | 6 | 195 | 4 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 1997 | 14x14 Inder J. Taneja https://numbers-magic.com/ @IJTANEJA ©IJT | | | | | | | | | | | | | 1379 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 61 | 130 | 63 | 133 | 135 | 68 | 132 | 66 | 49 | 148 | 40 | 157 | 150 | 47 | 1379 |
| 136 | 67 | 134 | 64 | 62 | 129 | 65 | 131 | 147 | 50 | 158 | 39 | 155 | 42 | 1379 |
| 55 | 143 | 53 | 58 | 140 | 60 | 138 | 141 | 146 | 51 | 33 | 164 | 43 | 154 | 1379 |
| 142 | 54 | 144 | 139 | 57 | 137 | 59 | 56 | 52 | 145 | 163 | 34 | 41 | 156 | 1379 |
| 69 | 128 | 118 | 78 | 121 | 75 | 123 | 80 | 73 | 120 | 160 | 37 | 152 | 45 | 1379 |
| 72 | 125 | 79 | 119 | 76 | 122 | 74 | 117 | 124 | 77 | 35 | 162 | 46 | 151 | 1379 |
| 126 | 71 | 81 | 112 | 86 | 110 | 113 | 83 | 115 | 88 | 161 | 36 | 153 | 44 | 1379 |
| 127 | 70 | 116 | 85 | 111 | 87 | 84 | 114 | 82 | 109 | 38 | 159 | 48 | 149 | 1379 |
| 96 | 107 | 99 | 103 | 100 | 105 | 102 | 89 | 91 | 93 | 29 | 167 | 166 | 32 | 1379 |
| 101 | 90 | 98 | 94 | 97 | 92 | 95 | 108 | 106 | 104 | 168 | 30 | 31 | 165 | 1379 |
| 13 | 183 | 181 | 178 | 15 | 18 | 180 | 20 | 9 | 188 | 7 | 192 | 1 | 194 | 1379 |
| 184 | 14 | 16 | 19 | 182 | 179 | 17 | 177 | 187 | 10 | 2 | 193 | 8 | 191 | 1379 |
| 175 | 21 | 23 | 173 | 172 | 26 | 170 | 28 | 186 | 11 | 196 | 3 | 190 | 5 | 1379 |
| 22 | 176 | 174 | 24 | 25 | 171 | 27 | 169 | 12 | 185 | 189 | 6 | 195 | 4 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2120 | 14x14 Inder J. Taneja https://numbers-magic.com/ @IJTANEJA ©IJT | | | | | | | | | | | | | 1379 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 139 | 134 | 64 | 132 | 50 | 62 | 66 | 146 | 52 | 140 | 40 | 157 | 43 | 154 | 1379 |
| 61 | 74 | 68 | 128 | 130 | 117 | 79 | 119 | 73 | 136 | 160 | 37 | 46 | 151 | 1379 |
| 144 | 127 | 112 | 110 | 83 | 116 | 84 | 86 | 70 | 53 | 33 | 164 | 155 | 42 | 1379 |
| 59 | 72 | 82 | 97 | 102 | 91 | 104 | 115 | 125 | 138 | 163 | 34 | 152 | 45 | 1379 |
| 137 | 77 | 88 | 92 | 103 | 98 | 101 | 109 | 120 | 60 | 161 | 36 | 153 | 44 | 1379 |
| 49 | 71 | 90 | 106 | 93 | 100 | 95 | 107 | 126 | 148 | 38 | 159 | 48 | 149 | 1379 |
| 141 | 122 | 108 | 99 | 96 | 105 | 94 | 89 | 75 | 56 | 158 | 39 | 150 | 47 | 1379 |
| 55 | 121 | 111 | 87 | 114 | 81 | 113 | 85 | 76 | 142 | 35 | 162 | 41 | 156 | 1379 |
| 143 | 124 | 129 | 69 | 67 | 80 | 118 | 78 | 123 | 54 | 29 | 167 | 166 | 32 | 1379 |
| 57 | 63 | 133 | 65 | 147 | 135 | 131 | 51 | 145 | 58 | 168 | 30 | 31 | 165 | 1379 |
| 13 | 183 | 181 | 178 | 15 | 18 | 180 | 20 | 9 | 188 | 7 | 192 | 1 | 194 | 1379 |
| 184 | 14 | 16 | 19 | 182 | 179 | 17 | 177 | 187 | 10 | 2 | 193 | 8 | 191 | 1379 |
| 175 | 21 | 23 | 173 | 172 | 26 | 170 | 28 | 186 | 11 | 196 | 3 | 190 | 5 | 1379 |
| 22 | 176 | 174 | 24 | 25 | 171 | 27 | 169 | 12 | 185 | 189 | 6 | 195 | 4 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2131 | 14x14 Inder J. Taneja https://numbers-magic.com/ @IJTANEJA ©IJT | | | | | | | | | | | | | 1379 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 139 | 62 | 134 | 146 | 132 | 64 | 66 | 52 | 50 | 140 | 40 | 157 | 43 | 154 | 1379 |
| 61 | 129 | 126 | 76 | 75 | 120 | 119 | 73 | 70 | 136 | 161 | 36 | 46 | 151 | 1379 |
| 59 | 67 | 85 | 113 | 83 | 79 | 115 | 116 | 130 | 138 | 33 | 164 | 155 | 42 | 1379 |
| 55 | 74 | 111 | 89 | 107 | 110 | 88 | 86 | 123 | 142 | 163 | 34 | 152 | 45 | 1379 |
| 49 | 69 | 117 | 108 | 90 | 87 | 109 | 80 | 128 | 148 | 160 | 37 | 153 | 44 | 1379 |
| 137 | 125 | 81 | 84 | 114 | 118 | 82 | 112 | 72 | 60 | 38 | 159 | 48 | 149 | 1379 |
| 141 | 127 | 71 | 121 | 122 | 77 | 78 | 124 | 68 | 56 | 158 | 39 | 150 | 47 | 1379 |
| 143 | 103 | 98 | 102 | 100 | 96 | 105 | 93 | 91 | 54 | 35 | 162 | 41 | 156 | 1379 |
| 144 | 94 | 99 | 95 | 97 | 101 | 92 | 104 | 106 | 53 | 29 | 167 | 166 | 32 | 1379 |
| 57 | 135 | 63 | 51 | 65 | 133 | 131 | 145 | 147 | 58 | 168 | 30 | 31 | 165 | 1379 |
| 13 | 183 | 181 | 178 | 15 | 18 | 180 | 20 | 9 | 188 | 7 | 192 | 1 | 194 | 1379 |
| 184 | 14 | 16 | 19 | 182 | 179 | 17 | 177 | 187 | 10 | 2 | 193 | 8 | 191 | 1379 |
| 175 | 21 | 23 | 173 | 172 | 26 | 170 | 28 | 186 | 11 | 196 | 3 | 190 | 5 | 1379 |
| 22 | 176 | 174 | 24 | 25 | 171 | 27 | 169 | 12 | 185 | 189 | 6 | 195 | 4 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

2.9 Part 9. $(a + b)^2$ -Type, where $a = 10$ and $b = 4$ Closed Form

This part give some magic square of order 14 based on the algebraic formula $(a + b)^2$. Here $a = 10$. Instead considering $b = 4$, we have considered directly the magic rectangles of order 4×10 . Two of them are complete magic rectangles of order 4×10 and the third is combination of magic rectangles of orders 4×10 and 4×4 . Since we have many magic squares of order 10. Replacing different forms of magic square of order 10, we get magic square of order 14. See below few examples.

| 2262 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 85 | 82 | 118 | 111 | 114 | 81 | 105 | 92 | 66 | 131 | 35 | 168 | 158 | 33 | 1379 |
| 113 | 89 | 107 | 110 | 88 | 84 | 94 | 103 | 53 | 144 | 157 | 154 | 43 | 40 | 1379 |
| 80 | 108 | 90 | 87 | 109 | 117 | 104 | 93 | 136 | 61 | 160 | 44 | 153 | 37 | 1379 |
| 116 | 115 | 79 | 86 | 83 | 112 | 91 | 106 | 147 | 50 | 34 | 151 | 46 | 163 | 1379 |
| 100 | 97 | 69 | 130 | 70 | 126 | 123 | 73 | 142 | 55 | 166 | 41 | 156 | 31 | 1379 |
| 101 | 96 | 129 | 77 | 122 | 119 | 76 | 68 | 143 | 54 | 165 | 155 | 42 | 32 | 1379 |
| 95 | 102 | 72 | 120 | 75 | 78 | 121 | 125 | 58 | 139 | 38 | 150 | 47 | 159 | 1379 |
| 98 | 99 | 124 | 67 | 127 | 71 | 74 | 128 | 56 | 141 | 30 | 45 | 152 | 167 | 1379 |
| 63 | 132 | 60 | 138 | 57 | 146 | 145 | 133 | 49 | 62 | 36 | 48 | 149 | 161 | 1379 |
| 134 | 65 | 137 | 59 | 140 | 51 | 52 | 64 | 135 | 148 | 164 | 29 | 39 | 162 | 1379 |
| 13 | 6 | 187 | 182 | 189 | 195 | 193 | 3 | 16 | 5 | 14 | 185 | 1 | 190 | 1379 |
| 186 | 20 | 176 | 26 | 23 | 172 | 169 | 173 | 17 | 27 | 22 | 178 | 179 | 11 | 1379 |
| 188 | 177 | 21 | 171 | 174 | 25 | 28 | 24 | 180 | 170 | 175 | 19 | 18 | 9 | 1379 |
| 7 | 191 | 10 | 15 | 8 | 2 | 4 | 194 | 181 | 192 | 183 | 12 | 196 | 184 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2284 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 139 | 134 | 64 | 132 | 52 | 62 | 66 | 146 | 50 | 140 | 33 | 168 | 158 | 35 | 1379 |
| 61 | 91 | 106 | 86 | 111 | 113 | 84 | 119 | 78 | 136 | 40 | 44 | 153 | 157 | 1379 |
| 137 | 108 | 89 | 109 | 88 | 116 | 81 | 67 | 130 | 60 | 167 | 48 | 149 | 30 | 1379 |
| 59 | 90 | 107 | 112 | 85 | 82 | 115 | 73 | 124 | 138 | 37 | 154 | 43 | 160 | 1379 |
| 141 | 105 | 92 | 87 | 110 | 83 | 114 | 75 | 122 | 56 | 161 | 151 | 46 | 36 | 1379 |
| 49 | 99 | 100 | 101 | 93 | 95 | 103 | 120 | 77 | 148 | 32 | 41 | 156 | 165 | 1379 |
| 144 | 98 | 97 | 96 | 104 | 102 | 94 | 79 | 118 | 53 | 159 | 155 | 42 | 38 | 1379 |
| 55 | 76 | 74 | 128 | 72 | 117 | 127 | 126 | 68 | 142 | 31 | 45 | 152 | 166 | 1379 |
| 143 | 121 | 123 | 69 | 125 | 80 | 70 | 129 | 71 | 54 | 163 | 150 | 47 | 34 | 1379 |
| 57 | 63 | 133 | 65 | 145 | 135 | 131 | 51 | 147 | 58 | 162 | 29 | 39 | 164 | 1379 |
| 13 | 6 | 187 | 182 | 189 | 195 | 193 | 3 | 16 | 5 | 14 | 185 | 1 | 190 | 1379 |
| 186 | 20 | 176 | 26 | 23 | 172 | 169 | 173 | 17 | 27 | 22 | 178 | 179 | 11 | 1379 |
| 188 | 177 | 21 | 171 | 174 | 25 | 28 | 24 | 180 | 170 | 175 | 19 | 18 | 9 | 1379 |
| 7 | 191 | 10 | 15 | 8 | 2 | 4 | 194 | 181 | 192 | 183 | 12 | 196 | 184 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2330 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 85 | 111 | 110 | 88 | 81 | 116 | 123 | 74 | 134 | 63 | 33 | 164 | 41 | 156 | 1379 |
| 112 | 86 | 87 | 109 | 115 | 82 | 73 | 124 | 64 | 133 | 163 | 34 | 150 | 47 | 1379 |
| 80 | 118 | 77 | 119 | 114 | 83 | 122 | 75 | 136 | 61 | 35 | 162 | 43 | 154 | 1379 |
| 117 | 79 | 120 | 78 | 84 | 113 | 76 | 121 | 137 | 60 | 160 | 37 | 155 | 42 | 1379 |
| 65 | 70 | 67 | 129 | 126 | 128 | 131 | 72 | 62 | 135 | 158 | 39 | 152 | 45 | 1379 |
| 132 | 127 | 130 | 68 | 71 | 69 | 66 | 125 | 59 | 138 | 38 | 159 | 46 | 151 | 1379 |
| 51 | 145 | 49 | 147 | 144 | 54 | 142 | 56 | 57 | 140 | 161 | 36 | 153 | 44 | 1379 |
| 146 | 52 | 148 | 50 | 53 | 143 | 55 | 141 | 139 | 58 | 40 | 157 | 48 | 149 | 1379 |
| 93 | 107 | 96 | 99 | 91 | 103 | 102 | 100 | 89 | 105 | 29 | 167 | 166 | 32 | 1379 |
| 104 | 90 | 101 | 98 | 106 | 94 | 95 | 97 | 108 | 92 | 168 | 30 | 31 | 165 | 1379 |
| 12 | 193 | 195 | 189 | 5 | 184 | 14 | 181 | 11 | 188 | 7 | 3 | 1 | 196 | 1379 |
| 185 | 4 | 2 | 8 | 192 | 13 | 183 | 16 | 186 | 9 | 190 | 194 | 15 | 182 | 1379 |
| 173 | 22 | 23 | 21 | 26 | 177 | 180 | 178 | 25 | 169 | 18 | 170 | 187 | 10 | 1379 |
| 24 | 175 | 174 | 176 | 171 | 20 | 17 | 19 | 172 | 28 | 179 | 27 | 191 | 6 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2339 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 63 | 134 | 58 | 139 | 96 | 101 | 121 | 76 | 88 | 109 | 33 | 164 | 41 | 156 | 1379 |
| 135 | 62 | 53 | 144 | 107 | 90 | 80 | 117 | 83 | 114 | 163 | 34 | 48 | 149 | 1379 |
| 61 | 136 | 138 | 59 | 91 | 106 | 78 | 119 | 86 | 111 | 35 | 162 | 155 | 42 | 1379 |
| 133 | 64 | 60 | 137 | 105 | 92 | 73 | 124 | 113 | 84 | 161 | 36 | 153 | 44 | 1379 |
| 132 | 65 | 140 | 57 | 99 | 98 | 123 | 74 | 81 | 116 | 160 | 37 | 152 | 45 | 1379 |
| 68 | 129 | 141 | 56 | 102 | 95 | 75 | 122 | 110 | 87 | 38 | 159 | 46 | 151 | 1379 |
| 130 | 67 | 143 | 54 | 103 | 94 | 118 | 79 | 115 | 82 | 158 | 39 | 150 | 47 | 1379 |
| 66 | 131 | 55 | 142 | 89 | 108 | 120 | 77 | 112 | 85 | 40 | 157 | 43 | 154 | 1379 |
| 52 | 147 | 146 | 49 | 100 | 97 | 69 | 72 | 126 | 127 | 29 | 167 | 166 | 32 | 1379 |
| 145 | 50 | 51 | 148 | 93 | 104 | 128 | 125 | 71 | 70 | 168 | 30 | 31 | 165 | 1379 |
| 12 | 193 | 195 | 189 | 5 | 184 | 14 | 181 | 11 | 188 | 7 | 3 | 1 | 196 | 1379 |
| 185 | 4 | 2 | 8 | 192 | 13 | 183 | 16 | 186 | 9 | 190 | 194 | 15 | 182 | 1379 |
| 173 | 22 | 23 | 21 | 26 | 177 | 180 | 178 | 25 | 169 | 18 | 170 | 187 | 10 | 1379 |
| 24 | 175 | 174 | 176 | 171 | 20 | 17 | 19 | 172 | 28 | 179 | 27 | 191 | 6 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2499 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 55 | 146 | 140 | 56 | 145 | 54 | 58 | 50 | 137 | 144 | 40 | 157 | 150 | 47 | 1379 |
| 148 | 131 | 61 | 65 | 135 | 68 | 134 | 64 | 130 | 49 | 158 | 39 | 155 | 42 | 1379 |
| 138 | 66 | 136 | 132 | 62 | 129 | 63 | 133 | 67 | 59 | 33 | 164 | 43 | 154 | 1379 |
| 53 | 51 | 57 | 141 | 52 | 143 | 139 | 147 | 60 | 142 | 163 | 34 | 41 | 156 | 1379 |
| 75 | 70 | 120 | 74 | 76 | 125 | 78 | 117 | 126 | 124 | 160 | 37 | 152 | 45 | 1379 |
| 128 | 111 | 81 | 115 | 84 | 88 | 110 | 114 | 85 | 69 | 35 | 162 | 46 | 151 | 1379 |
| 118 | 86 | 116 | 82 | 113 | 109 | 87 | 83 | 112 | 79 | 161 | 36 | 153 | 44 | 1379 |
| 73 | 127 | 77 | 123 | 121 | 72 | 119 | 80 | 71 | 122 | 38 | 159 | 48 | 149 | 1379 |
| 96 | 107 | 91 | 103 | 100 | 105 | 102 | 93 | 89 | 99 | 29 | 167 | 166 | 32 | 1379 |
| 101 | 90 | 106 | 94 | 97 | 92 | 95 | 104 | 108 | 98 | 168 | 30 | 31 | 165 | 1379 |
| 13 | 183 | 181 | 178 | 15 | 18 | 180 | 20 | 9 | 188 | 5 | 192 | 1 | 196 | 1379 |
| 184 | 14 | 16 | 19 | 182 | 179 | 17 | 177 | 187 | 10 | 191 | 6 | 195 | 2 | 1379 |
| 175 | 21 | 23 | 173 | 172 | 26 | 170 | 28 | 186 | 11 | 190 | 7 | 194 | 3 | 1379 |
| 22 | 176 | 174 | 24 | 25 | 171 | 27 | 169 | 12 | 185 | 8 | 189 | 4 | 193 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2605 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 139 | 62 | 134 | 146 | 132 | 64 | 66 | 52 | 50 | 140 | 40 | 157 | 43 | 154 | 1379 |
| 61 | 100 | 98 | 93 | 103 | 102 | 96 | 91 | 105 | 136 | 163 | 34 | 46 | 151 | 1379 |
| 59 | 129 | 119 | 120 | 73 | 76 | 126 | 75 | 70 | 138 | 35 | 162 | 155 | 42 | 1379 |
| 55 | 67 | 85 | 83 | 79 | 113 | 115 | 116 | 130 | 142 | 161 | 36 | 152 | 45 | 1379 |
| 49 | 74 | 111 | 88 | 107 | 110 | 89 | 86 | 123 | 148 | 160 | 37 | 153 | 44 | 1379 |
| 137 | 69 | 117 | 109 | 90 | 87 | 108 | 80 | 128 | 60 | 38 | 159 | 48 | 149 | 1379 |
| 141 | 125 | 81 | 114 | 118 | 84 | 82 | 112 | 72 | 56 | 158 | 39 | 150 | 47 | 1379 |
| 143 | 127 | 78 | 77 | 124 | 121 | 71 | 122 | 68 | 54 | 33 | 164 | 41 | 156 | 1379 |
| 144 | 97 | 99 | 104 | 94 | 95 | 101 | 106 | 92 | 53 | 29 | 167 | 166 | 32 | 1379 |
| 57 | 135 | 63 | 51 | 65 | 133 | 131 | 145 | 147 | 58 | 168 | 30 | 31 | 165 | 1379 |
| 13 | 183 | 181 | 178 | 15 | 18 | 180 | 20 | 9 | 188 | 191 | 6 | 1 | 196 | 1379 |
| 184 | 14 | 16 | 19 | 182 | 179 | 17 | 177 | 187 | 10 | 5 | 192 | 195 | 2 | 1379 |
| 175 | 21 | 23 | 173 | 172 | 26 | 170 | 28 | 186 | 11 | 190 | 7 | 4 | 193 | 1379 |
| 22 | 176 | 174 | 24 | 25 | 171 | 27 | 169 | 12 | 185 | 8 | 189 | 194 | 3 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

2.10 Part 10. Bordered Magic Squares: Embedded with Magic Squares of Order 12

This part is very much similar to double digits bordered magic squares. Here instead of border of double digits, we have single digit border. The inner part is replaced by magic squares of order 12. See below few examples.

| 2828 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | 88 | 109 | 79 | 118 | 86 | 111 | 78 | 119 | 51 | 146 | 59 | 138 | 178 | 1379 |
| 17 | 110 | 87 | 117 | 80 | 112 | 85 | 120 | 77 | 54 | 143 | 62 | 135 | 180 | 1379 |
| 15 | 89 | 108 | 116 | 81 | 113 | 84 | 121 | 76 | 145 | 52 | 137 | 60 | 182 | 1379 |
| 11 | 107 | 90 | 82 | 115 | 83 | 114 | 75 | 122 | 144 | 53 | 136 | 61 | 186 | 1379 |
| 9 | 69 | 67 | 129 | 127 | 126 | 124 | 72 | 74 | 55 | 141 | 140 | 58 | 188 | 1379 |
| 1 | 128 | 130 | 68 | 70 | 71 | 73 | 125 | 123 | 142 | 56 | 57 | 139 | 196 | 1379 |
| 179 | 103 | 93 | 98 | 102 | 100 | 96 | 91 | 105 | 43 | 153 | 152 | 46 | 18 | 1379 |
| 181 | 94 | 104 | 99 | 95 | 97 | 101 | 106 | 92 | 154 | 44 | 45 | 151 | 16 | 1379 |
| 185 | 132 | 65 | 31 | 166 | 27 | 169 | 168 | 30 | 157 | 40 | 50 | 147 | 12 | 1379 |
| 187 | 133 | 64 | 34 | 163 | 170 | 28 | 29 | 167 | 156 | 41 | 47 | 150 | 10 | 1379 |
| 189 | 66 | 131 | 164 | 33 | 35 | 161 | 160 | 38 | 39 | 158 | 148 | 49 | 8 | 1379 |
| 190 | 63 | 134 | 165 | 32 | 162 | 36 | 37 | 159 | 42 | 155 | 149 | 48 | 7 | 1379 |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 2912 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | 74 | 68 | 130 | 117 | 128 | 79 | 119 | 73 | 140 | 58 | 141 | 55 | 178 | 1379 |
| 17 | 71 | 91 | 108 | 90 | 105 | 83 | 114 | 126 | 57 | 139 | 56 | 142 | 180 | 1379 |
| 15 | 77 | 106 | 89 | 107 | 92 | 116 | 81 | 120 | 165 | 31 | 164 | 34 | 182 | 1379 |
| 11 | 127 | 86 | 109 | 112 | 87 | 82 | 115 | 70 | 32 | 166 | 33 | 163 | 186 | 1379 |
| 9 | 72 | 111 | 88 | 85 | 110 | 113 | 84 | 125 | 27 | 170 | 35 | 162 | 188 | 1379 |
| 1 | 122 | 101 | 93 | 100 | 99 | 95 | 103 | 75 | 169 | 28 | 161 | 36 | 196 | 1379 |
| 179 | 121 | 96 | 104 | 97 | 98 | 102 | 94 | 76 | 168 | 29 | 160 | 37 | 18 | 1379 |
| 181 | 124 | 129 | 67 | 80 | 69 | 118 | 78 | 123 | 30 | 167 | 38 | 159 | 16 | 1379 |
| 185 | 157 | 40 | 50 | 147 | 43 | 153 | 152 | 46 | 65 | 134 | 59 | 136 | 12 | 1379 |
| 187 | 42 | 155 | 148 | 49 | 154 | 44 | 45 | 151 | 60 | 135 | 66 | 133 | 10 | 1379 |
| 189 | 39 | 158 | 47 | 150 | 51 | 145 | 144 | 54 | 138 | 61 | 132 | 63 | 8 | 1379 |
| 190 | 156 | 41 | 149 | 48 | 146 | 52 | 53 | 143 | 131 | 64 | 137 | 62 | 7 | 1379 |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

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|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | 30 | 27 | 169 | 168 | 31 | 165 | 164 | 34 | 35 | 38 | 160 | 161 | 178 | 1379 |
| 17 | 167 | 170 | 28 | 29 | 166 | 32 | 33 | 163 | 162 | 159 | 37 | 36 | 180 | 1379 |
| 15 | 63 | 134 | 67 | 130 | 77 | 120 | 83 | 114 | 91 | 106 | 39 | 158 | 182 | 1379 |
| 11 | 133 | 64 | 69 | 128 | 121 | 76 | 111 | 86 | 105 | 92 | 157 | 40 | 186 | 1379 |
| 9 | 132 | 65 | 129 | 68 | 75 | 122 | 88 | 109 | 100 | 97 | 156 | 41 | 188 | 1379 |
| 1 | 66 | 131 | 127 | 70 | 82 | 115 | 110 | 87 | 103 | 94 | 42 | 155 | 196 | 1379 |
| 179 | 59 | 138 | 126 | 71 | 118 | 79 | 108 | 89 | 98 | 99 | 43 | 154 | 18 | 1379 |
| 181 | 137 | 60 | 124 | 73 | 80 | 117 | 90 | 107 | 96 | 101 | 153 | 44 | 16 | 1379 |
| 185 | 136 | 61 | 72 | 125 | 116 | 81 | 113 | 84 | 93 | 104 | 152 | 45 | 12 | 1379 |
| 187 | 62 | 135 | 74 | 123 | 119 | 78 | 85 | 112 | 102 | 95 | 46 | 151 | 10 | 1379 |
| 189 | 141 | 140 | 58 | 55 | 51 | 145 | 144 | 54 | 148 | 149 | 47 | 50 | 8 | 1379 |
| 190 | 56 | 57 | 139 | 142 | 146 | 52 | 53 | 143 | 49 | 48 | 150 | 147 | 7 | 1379 |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

| 3015 | 14x14 | Inder J. Taneja | https://numbers-magic.com/ | @IJTANEJA | ©IJT | 1379 | | | | | | | | |
|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | 63 | 134 | 58 | 139 | 96 | 101 | 121 | 76 | 88 | 109 | 47 | 150 | 178 | 1379 |
| 17 | 135 | 62 | 53 | 144 | 107 | 90 | 80 | 117 | 83 | 114 | 35 | 162 | 180 | 1379 |
| 15 | 61 | 136 | 138 | 59 | 91 | 106 | 78 | 119 | 86 | 111 | 44 | 153 | 182 | 1379 |
| 11 | 133 | 64 | 60 | 137 | 105 | 92 | 73 | 124 | 115 | 82 | 167 | 30 | 186 | 1379 |
| 9 | 132 | 65 | 140 | 57 | 99 | 98 | 123 | 74 | 112 | 85 | 152 | 45 | 188 | 1379 |
| 1 | 68 | 129 | 141 | 56 | 102 | 95 | 75 | 122 | 110 | 87 | 166 | 31 | 196 | 1379 |
| 179 | 130 | 67 | 143 | 54 | 103 | 94 | 118 | 79 | 113 | 84 | 160 | 37 | 18 | 1379 |
| 181 | 66 | 131 | 55 | 142 | 89 | 108 | 120 | 77 | 81 | 116 | 161 | 36 | 16 | 1379 |
| 185 | 52 | 147 | 146 | 49 | 100 | 97 | 69 | 72 | 126 | 127 | 149 | 48 | 12 | 1379 |
| 187 | 145 | 50 | 51 | 148 | 93 | 104 | 128 | 125 | 71 | 70 | 40 | 157 | 10 | 1379 |
| 189 | 27 | 169 | 154 | 163 | 159 | 42 | 156 | 33 | 46 | 39 | 29 | 165 | 8 | 1379 |
| 190 | 170 | 28 | 43 | 34 | 38 | 155 | 41 | 164 | 151 | 158 | 32 | 168 | 7 | 1379 |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

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|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | 159 | 150 | 152 | 167 | 169 | 48 | 46 | 44 | 31 | 29 | 27 | 160 | 178 | 1379 |
| 17 | 43 | 94 | 87 | 109 | 82 | 116 | 103 | 124 | 126 | 69 | 75 | 154 | 180 | 1379 |
| 15 | 40 | 97 | 111 | 107 | 90 | 86 | 100 | 125 | 118 | 79 | 72 | 157 | 182 | 1379 |
| 11 | 39 | 102 | 85 | 89 | 108 | 112 | 95 | 74 | 77 | 120 | 123 | 158 | 186 | 1379 |
| 9 | 34 | 96 | 114 | 92 | 105 | 83 | 101 | 70 | 80 | 117 | 127 | 163 | 188 | 1379 |
| 1 | 32 | 104 | 113 | 106 | 91 | 84 | 93 | 76 | 119 | 78 | 121 | 165 | 196 | 1379 |
| 179 | 155 | 98 | 81 | 88 | 115 | 110 | 99 | 122 | 71 | 128 | 73 | 42 | 18 | 1379 |
| 181 | 156 | 49 | 148 | 60 | 53 | 55 | 58 | 143 | 141 | 140 | 138 | 41 | 16 | 1379 |
| 185 | 161 | 147 | 50 | 137 | 144 | 142 | 139 | 54 | 56 | 57 | 59 | 36 | 12 | 1379 |
| 187 | 162 | 52 | 145 | 66 | 135 | 130 | 133 | 132 | 63 | 68 | 61 | 35 | 10 | 1379 |
| 189 | 164 | 146 | 51 | 131 | 62 | 67 | 64 | 65 | 134 | 129 | 136 | 33 | 8 | 1379 |
| 190 | 37 | 47 | 45 | 30 | 28 | 149 | 151 | 153 | 166 | 168 | 170 | 38 | 7 | 1379 |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

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|------|-------|-----------------|---|-----------|------|------|------|------|------|------|------|------|------|------|
| 183 | 172 | 174 | 176 | 192 | 194 | 26 | 24 | 22 | 20 | 6 | 4 | 2 | 184 | 1379 |
| 19 | 159 | 150 | 152 | 167 | 169 | 48 | 46 | 44 | 31 | 29 | 27 | 160 | 178 | 1379 |
| 17 | 43 | 51 | 49 | 147 | 145 | 144 | 54 | 142 | 56 | 57 | 140 | 154 | 180 | 1379 |
| 15 | 40 | 146 | 148 | 50 | 52 | 53 | 143 | 55 | 141 | 59 | 138 | 157 | 182 | 1379 |
| 11 | 39 | 73 | 124 | 81 | 115 | 114 | 113 | 82 | 86 | 139 | 58 | 158 | 186 | 1379 |
| 9 | 34 | 123 | 74 | 110 | 88 | 108 | 89 | 91 | 105 | 137 | 60 | 163 | 188 | 1379 |
| 1 | 32 | 75 | 122 | 104 | 103 | 95 | 96 | 100 | 93 | 136 | 61 | 165 | 196 | 1379 |
| 179 | 155 | 121 | 76 | 98 | 94 | 101 | 102 | 97 | 99 | 62 | 135 | 42 | 18 | 1379 |
| 181 | 156 | 120 | 77 | 87 | 106 | 90 | 107 | 109 | 92 | 134 | 63 | 41 | 16 | 1379 |
| 185 | 161 | 118 | 79 | 111 | 85 | 83 | 84 | 112 | 116 | 64 | 133 | 36 | 12 | 1379 |
| 187 | 162 | 80 | 117 | 65 | 131 | 67 | 129 | 72 | 70 | 126 | 128 | 35 | 10 | 1379 |
| 189 | 164 | 78 | 119 | 132 | 66 | 130 | 68 | 125 | 127 | 71 | 69 | 33 | 8 | 1379 |
| 190 | 37 | 47 | 45 | 30 | 28 | 149 | 151 | 153 | 166 | 168 | 170 | 38 | 7 | 1379 |
| 13 | 25 | 23 | 21 | 5 | 3 | 171 | 173 | 175 | 177 | 191 | 193 | 195 | 14 | 1379 |
| 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 | 1379 |

3 Author's Contribution to Magic Squares and Recreation Numbers

For author's contribution to **magic squares** and **recreation numbers** please see the links below:

- Inder J. Taneja, Magic Squares, <https://inderjtaneja.com/2019/06/27/publications-magic-squares/>
- Inder J. Taneja, Recreation of Numbers, <https://inderjtaneja.com/2019/06/27/publications-recreation-of-numbers/>

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