

(1)				(2)			
16	8	1	9	2	10	15	7
10	2	7	15	8	16	9	1
3	13	12	6	11	5	4	14
5	11	14	4	13	8	6	12

(3)				(4)			
16	1	8	9	12	3	6	13
3	12	13	6	1	16	9	8
10	7	2	15	14	5	4	11
5	14	11	4	7	10	15	2

In the magic square No.1, first numbers in the first and second rows are exchanged mutually. Similarly, numbers in third row and fourth rows are exchanged and formed a row square, in that row square, the first and second column are exchanged mutually. Similarly, third and fourth column are exchanged then we get magic square (2).

In the magic square No.1, if the second row and third row are exchanged mutually and in the new magic square, thus formed, if the second and third column are mutually exchanged the magic square is obtained.

If we change the number in the magic square (3) as we did in square as well as in square No.1, the above the magic square (4) is obtained.

If we convert the 15 magic square $15 \times 4 = 60$ square as we did above, the total number of square we get in $432 + 60 = 492$ squares into 8 magic squares by turning the whole square repeatedly and upside down. The magic square No.1, is converted into 8 magic square as follows:

1				2			
16	3	2	13	16	9	5	4
9	6	7	12	3	6	10	15
5	10	11	8	2	7	11	14
4	15	14	1	13	12	8	1

3				4			
13	12	3	16	13	12	8	1
12	7	6	9	2	7	11	14
8	11	10	5	3	6	10	15
1	14	15	4	16	9	5	4

5				6			
1	8	12	13	1	14	15	4
14	11	7	2	8	11	10	5
15	10	6	3	12	7	6	9
4	5	9	14	13	2	3	16

7				8			
4	15	14	1	4	5	9	16
5	10	11	8	15	10	6	3
9	6	7	12	14	11	7	2
16	3	2	13	1	8	12	13

In this magic square No.1, if the whole square is turned such that the numbers in the first column come in the first row magic squares is obtained.

In the magic square No. 1, if the whole square is turned such that numbers in the fourth column come in the first column magic square (3) is obtained.

In this magic square (3), if the whole square is turned such that the numbers in the first column came in the first row, magic square (4) is obtained.

In the magic square (4), if the whole square is turned such that the numbers in the first column in the first row magic square (6) is obtained.

In the magic square (1), if the whole square is turned such that the numbers in the fourth row come in the first row magic square (7) is obtained.

In the magic square (7), if the whole square is turned such that the numbers in the first columns come in the row, magic square (8) is obtained. This means that the 492 magic square can be turned into $492 \times 8 = 3936$ magic square.

4. CONCLUSIONS

The construction of numerous magic squares of order 4 is presented in this paper. There are 3936 squares are constructed and possibility constructing the elaborated in this paper. This kind of exercise of need to be practiced with our kids and school children remove machine dependency also to improve the decision making and analytical ability for life problems. The further research in this process to explore to seek more possibilities of constructing fourth order magic square.

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