

5 x 5 MAGIC SQUARE

		1		
			2	

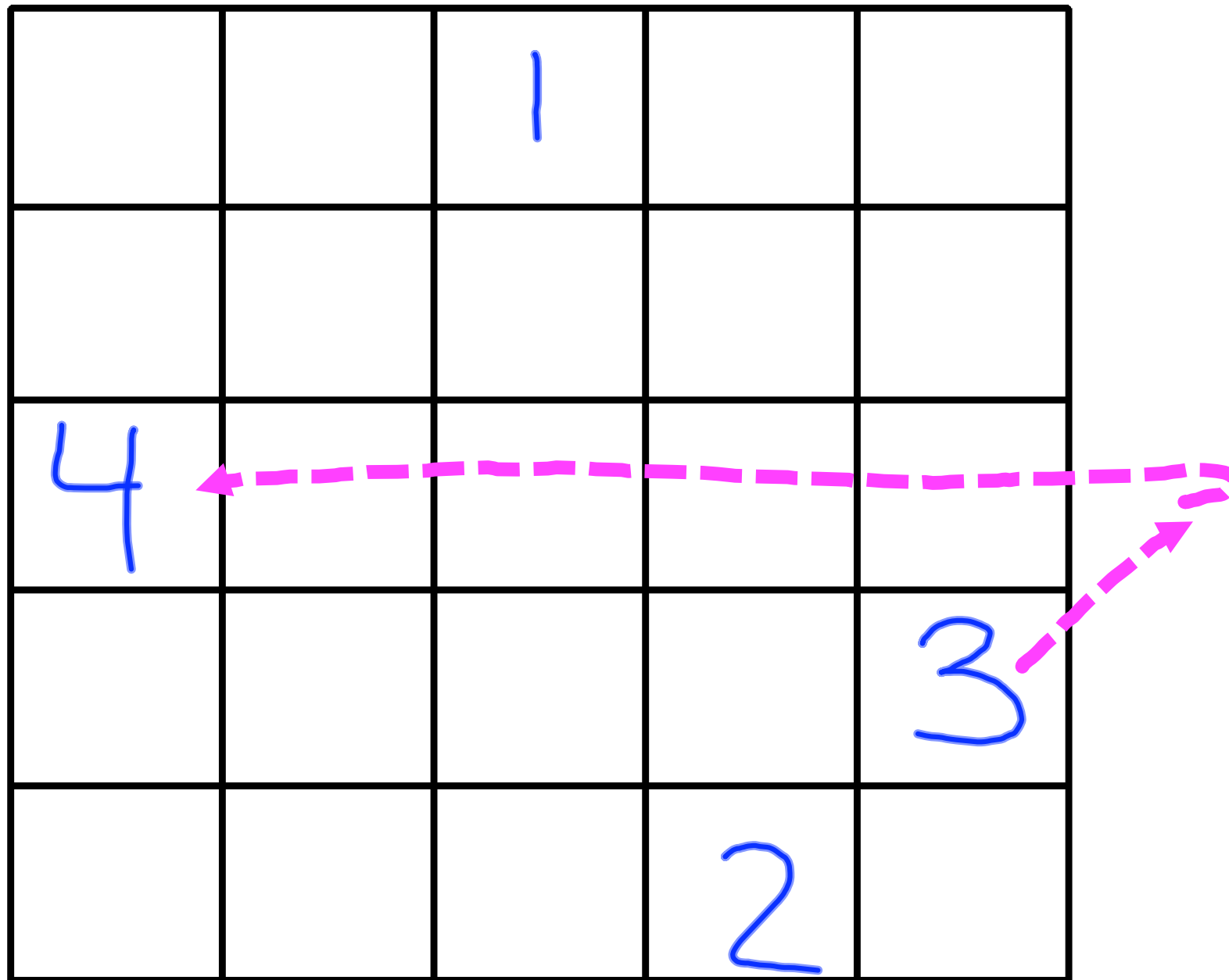
Process
for
odd
ordered
magic
squares
3x3
5x5
7x7
etc.

5 x 5 MAGIC SQUARE

		1		
				3
			2	

5 x 5 MAGIC SQUARE

		1		
4				
				3
			2	



A 5x5 magic square grid is shown. The numbers 1, 2, 3, and 4 are handwritten in blue ink in the following positions: 1 is in the top row, third column; 2 is in the bottom row, fourth column; 3 is in the fourth row, fifth column; and 4 is in the third row, first column. A pink dashed arrow points from the cell containing '3' to the cell containing '4'.

5 x 5 MAGIC SQUARE

		1		
	5			
4				
				3
			2	

5 x 5 MAGIC SQUARE

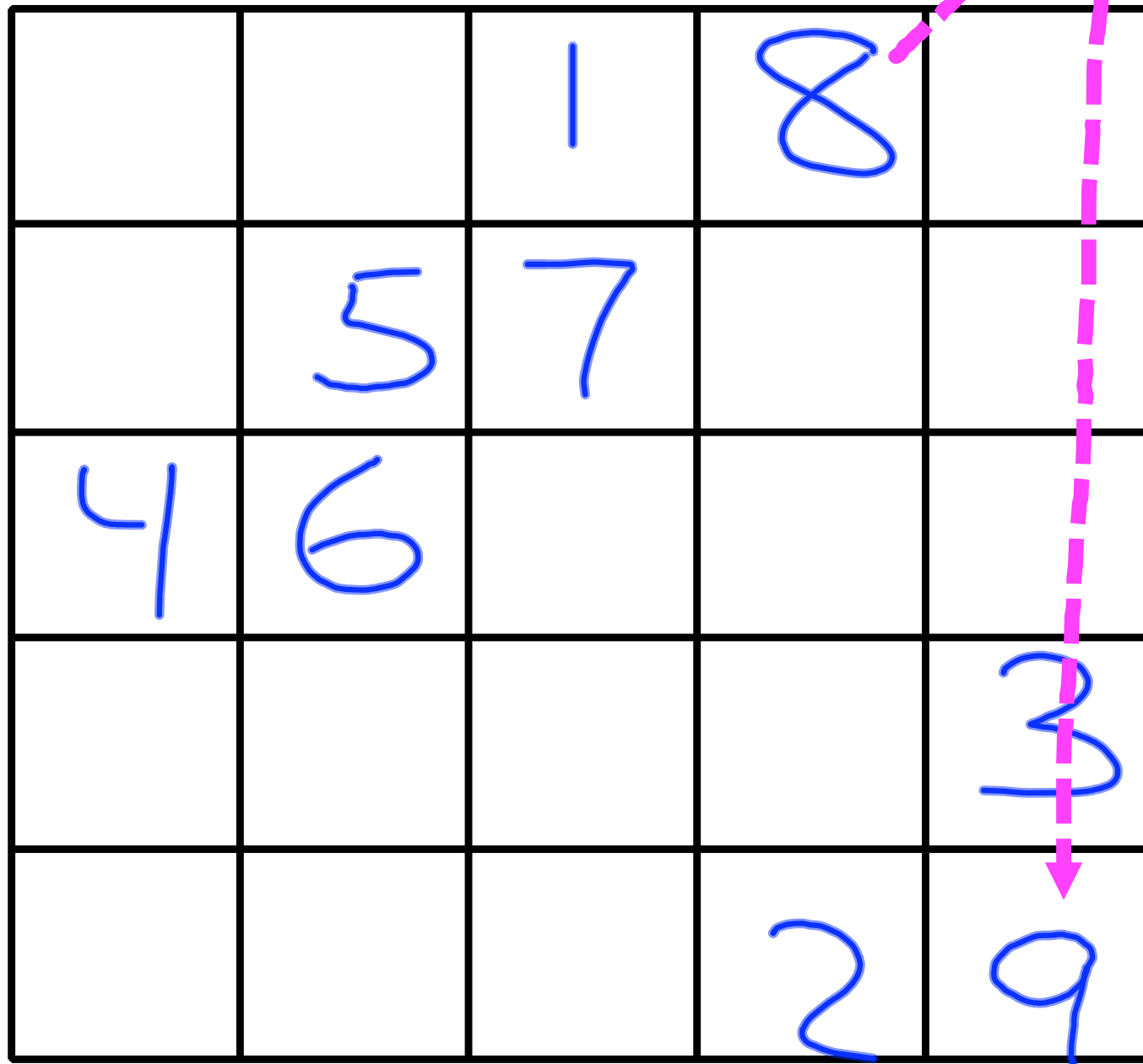
		1		
	5			
4	6			
				3
			2	

5 x 5 MAGIC SQUARE

		1	8	
	5	7		
4	6			
				3
			2	

5 x 5 MAGIC SQUARE

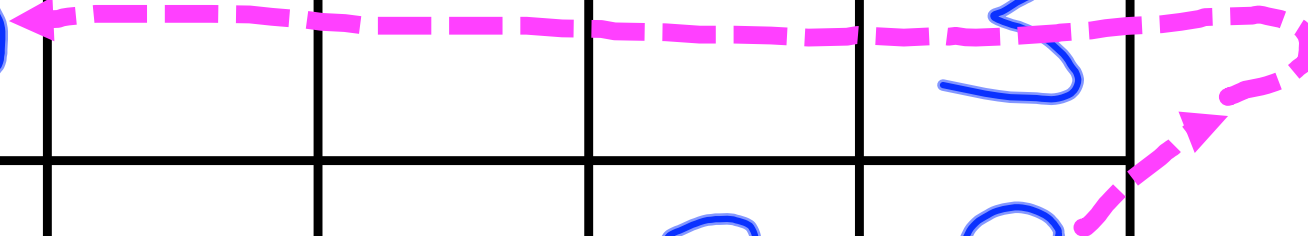
		1	8	
	5	7		
4	6			
				3
			2	9



A 5x5 magic square grid with handwritten numbers in blue. The numbers are: Row 1: (1,3)=1, (1,4)=8; Row 2: (2,2)=5, (2,3)=7; Row 3: (3,1)=4, (3,2)=6; Row 4: (4,5)=3; Row 5: (5,4)=2, (5,5)=9. A pink dashed arrow starts at the cell containing '8' (row 1, column 4), moves diagonally up and to the right, then vertically down, ending at the cell containing '9' (row 5, column 5).

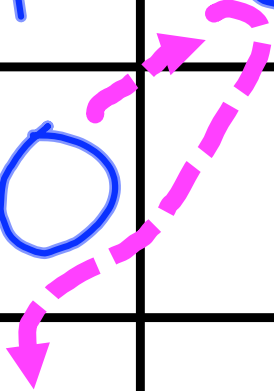
5 x 5 MAGIC SQUARE

		1	8	
	5	7		
4	6			
10				3
			2	9



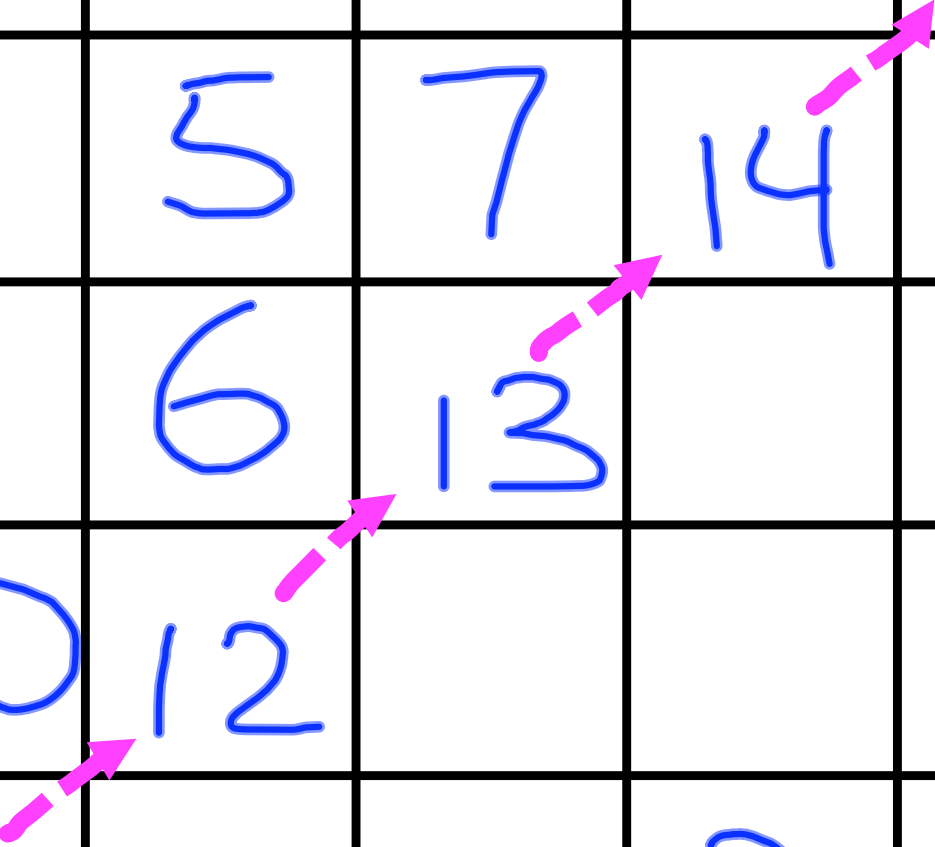
5 x 5 MAGIC SQUARE

		1	8	
	5	7		
4	6			
10				3
11			2	9



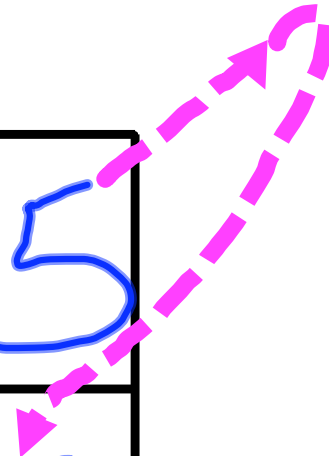
5 x 5 MAGIC SQUARE

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



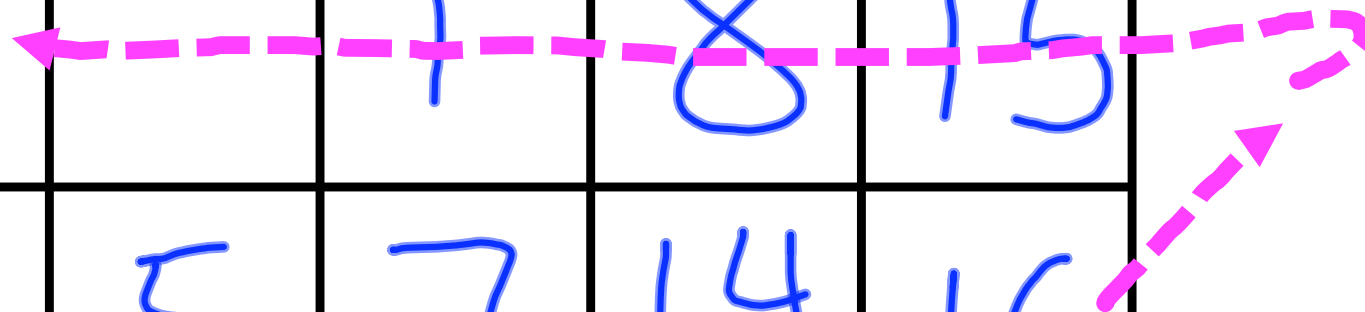
5 x 5 MAGIC SQUARE

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

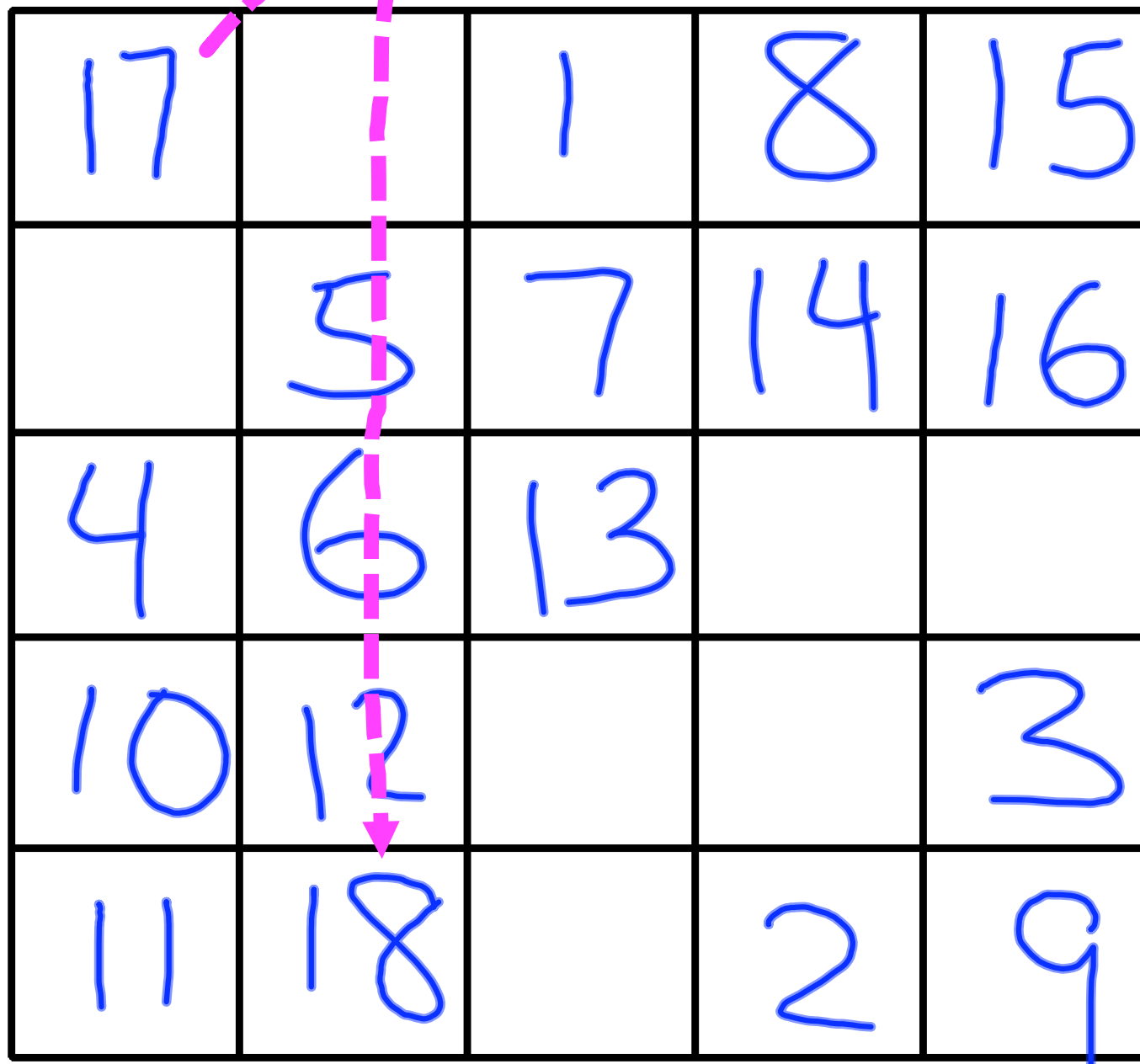


5 x 5 MAGIC SQUARE

17		1	8	15
	5	7	14	16
4	6	13		
10	12			3
11			2	9



5 x 5 MAGIC SQUARE



17		1	8	15
	5	7	14	16
4	6	13		
10	12			3
11	18		2	9

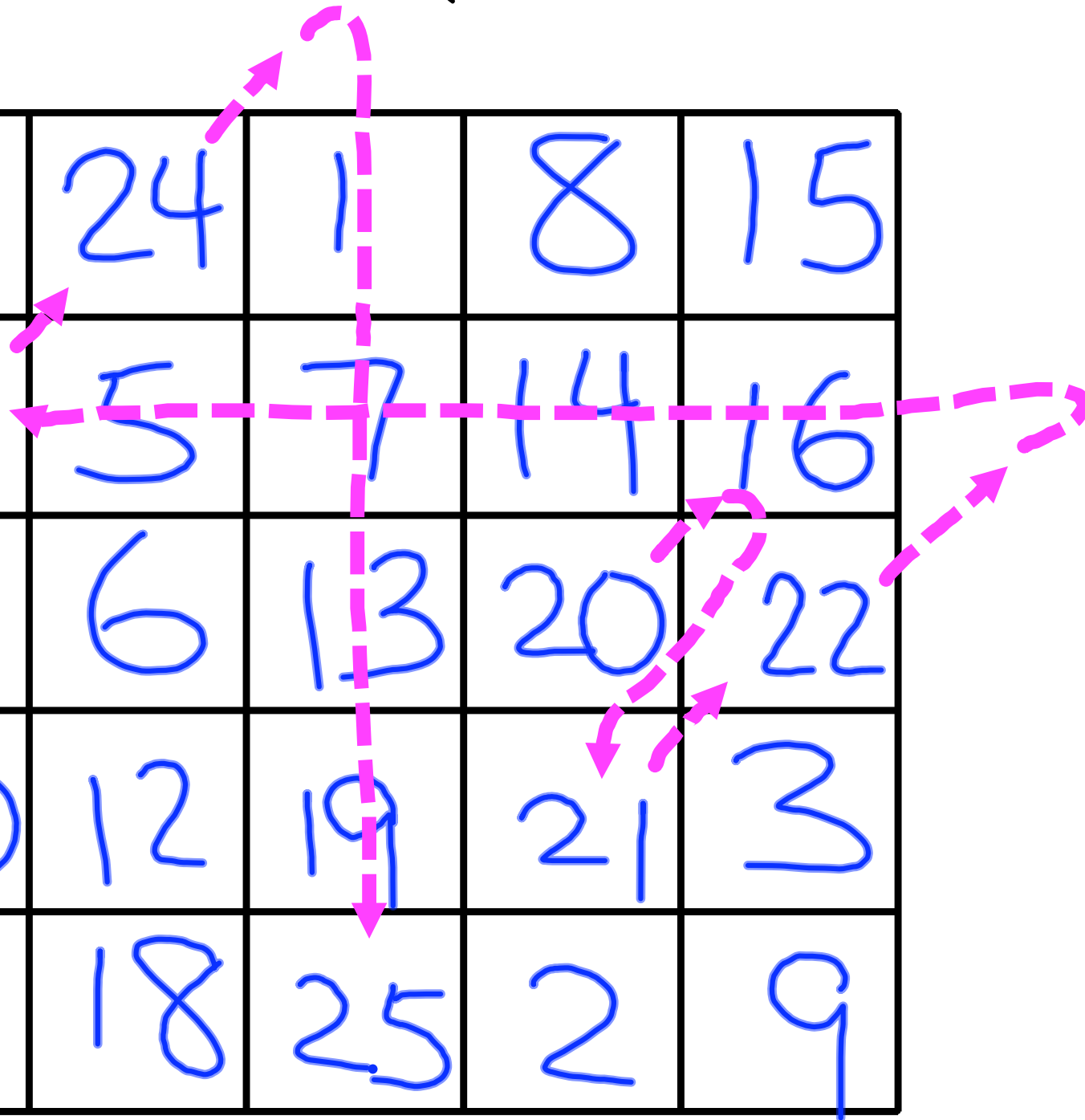
5 x 5 MAGIC SQUARE

17		1	8	15
	5	7	14	16
4	6	13	20	
10	12	19		3
11	18		2	9

Two pink dashed arrows are drawn on the grid. The first arrow starts at the cell containing '18' (row 5, column 2) and points to the cell containing '19' (row 4, column 3). The second arrow starts at the cell containing '19' (row 4, column 3) and points to the cell containing '20' (row 3, column 4).

5 x 5 MAGIC SQUARE

17	24	1	8	15
23	5	7	14	16
4	6	13	20	22
10	12	19	21	3
11	18	25	2	9



5 x 5 MAGIC SQUARE

17	24	1	8	15
23	5	7	14	16
4	6	13	20	22
10	12	19	21	3
11	18	25	2	9

5 x 5 MAGIC SQUARE

17	24	1	8	15
23	5	7	14	16
4	6	13	20	22
10	12	19	21	3
11	18	25	2	9

TEST
for
magic

total
65
all
12
ways

Formula for total
of $n \times n$ grid

$$\frac{n(n^2 + 1)}{2} = \frac{5(5^2 + 1)}{2}$$

$$\frac{5(25 + 1)}{2}$$

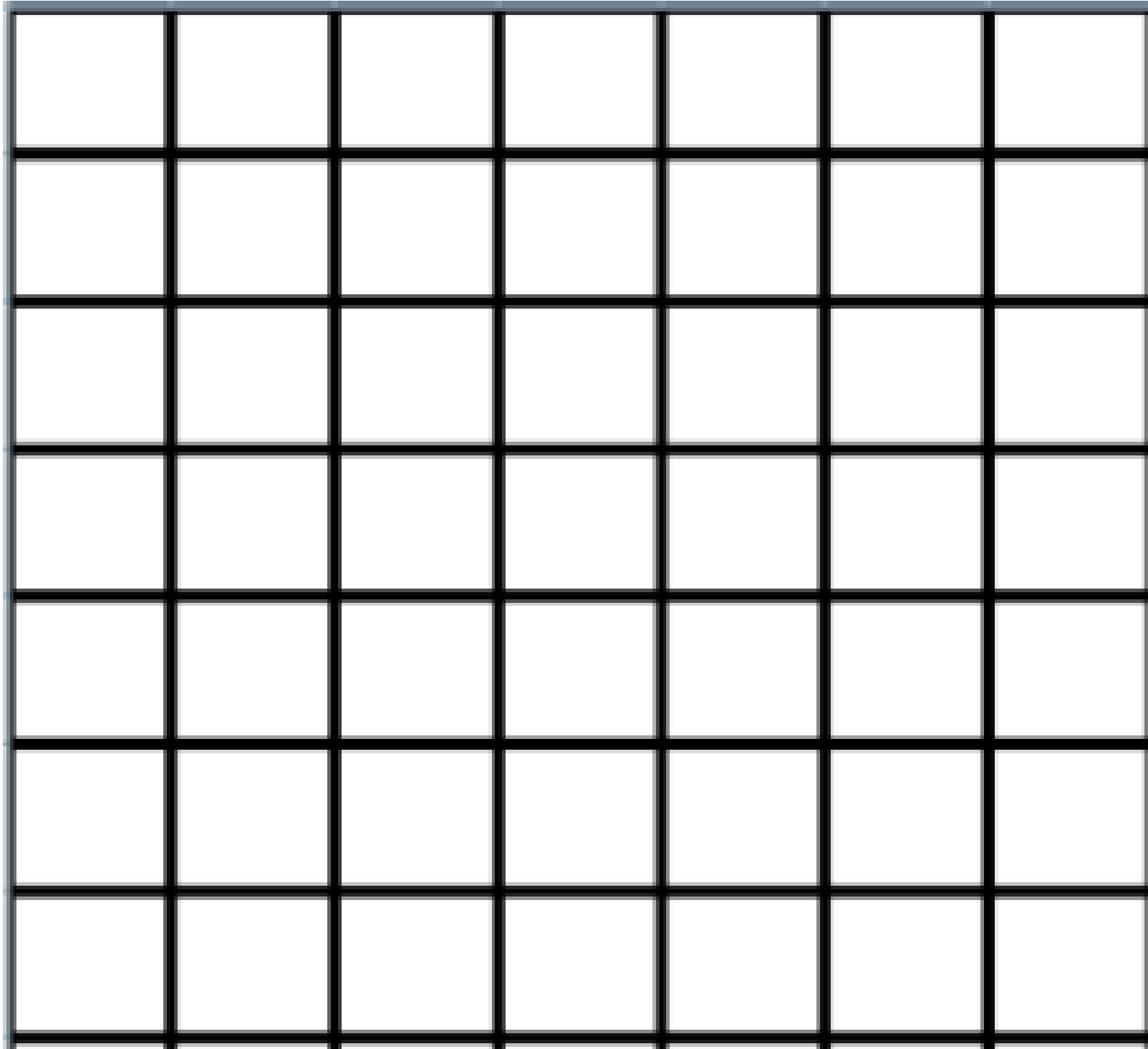
$$\textcircled{65} = \frac{130}{2} = \frac{5(26)}{2}$$

5 x 5 MAGIC SQUARE

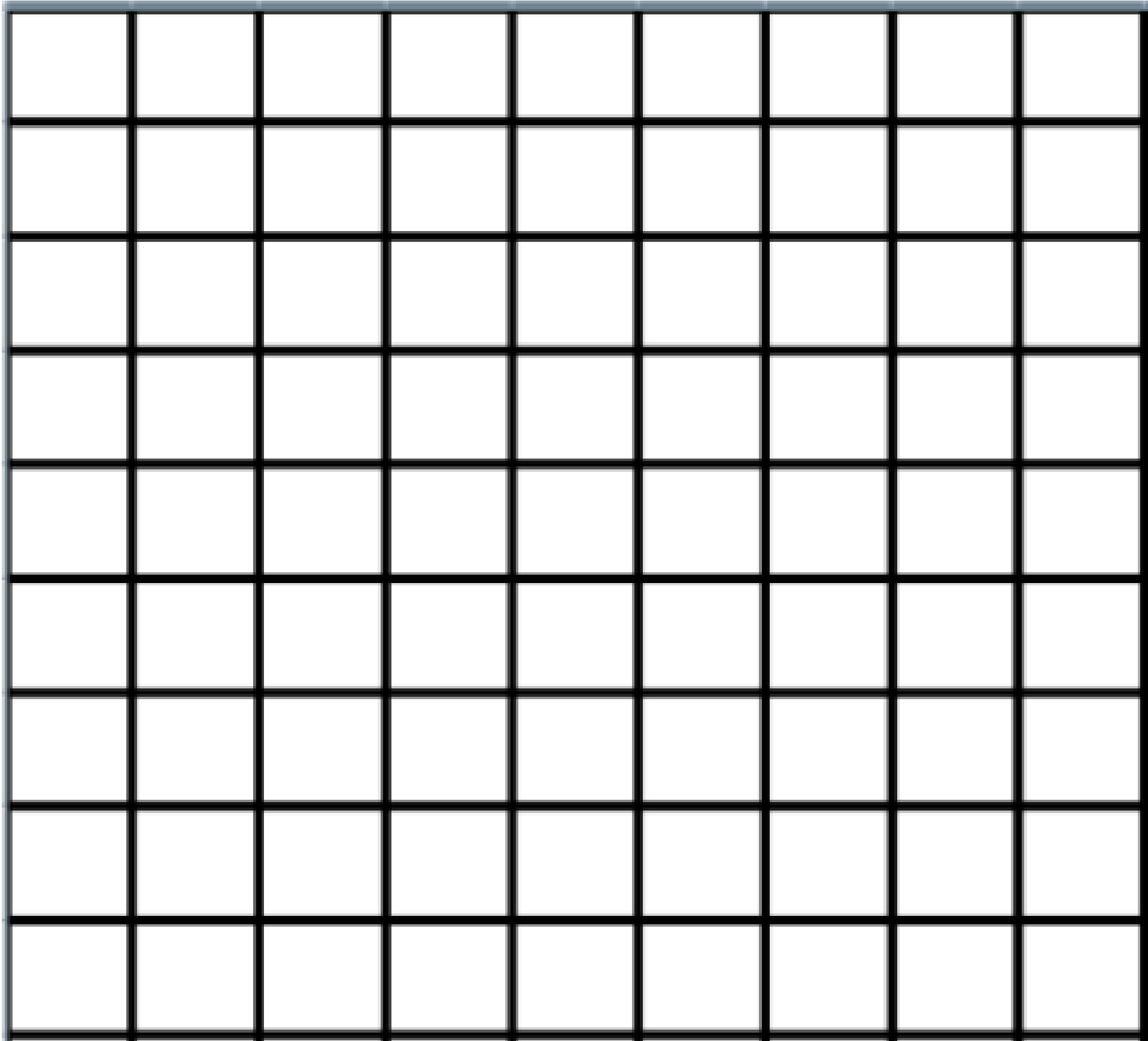
NOW
try
on
your
own

5 x 5 MAGIC SQUARE

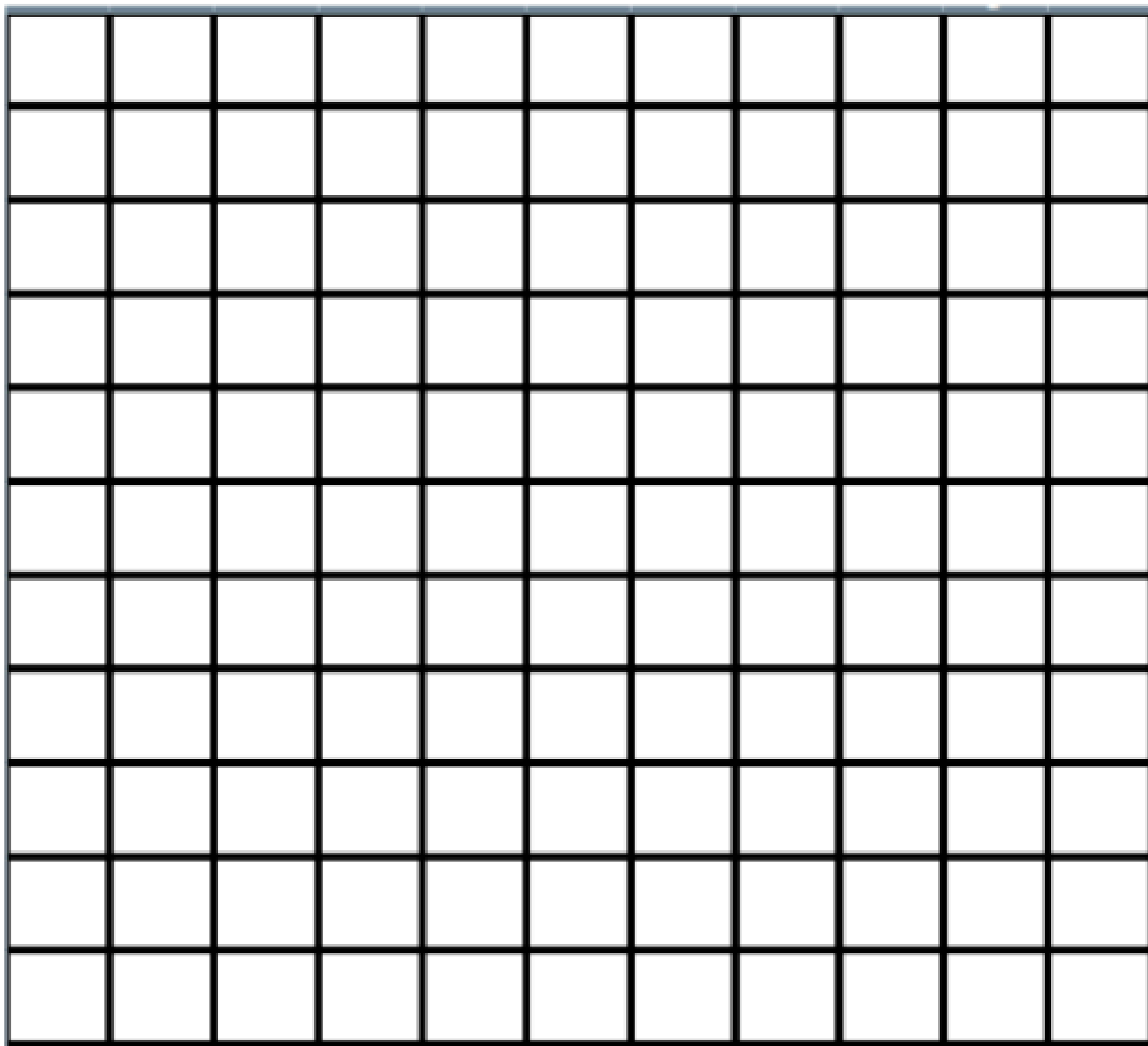
7 x 7



9 x 9



11 x 11



[illegible]