



Advanced Round 6 - 28th April to 1st May 2023

Nanro and Magnets - Nanro booklet

Puzzles by Adam Bissett

Please see the Instruction Booklet for detailed instructions

Time your efforts for each puzzle separately. Then submit your time for each puzzle, and, for Nanro, the number of empty cells in each row, and for Magnets, the contents of the indicated row or column as +, - and X (or P, N and X), as the "answer key".

Puzzle 1

8 points

Classic

Nanro

.	4	2	2	.	2	.	.	.
4	1	.	.	.	1	4	1	.
4	.	1	2	3	4	.	.	2
4	.	.	.	.	3	4	4	5
3	1	3	2	3	.	.	.	5
.	3	.	3	.	3	2	1	5
3	.	.	3	.	.	.	.	5
3	1	3	2	2	.	2	2	5
3	.	3	.	3	2	1	.	.

Puzzle 2

5 points

Classic

Nanro

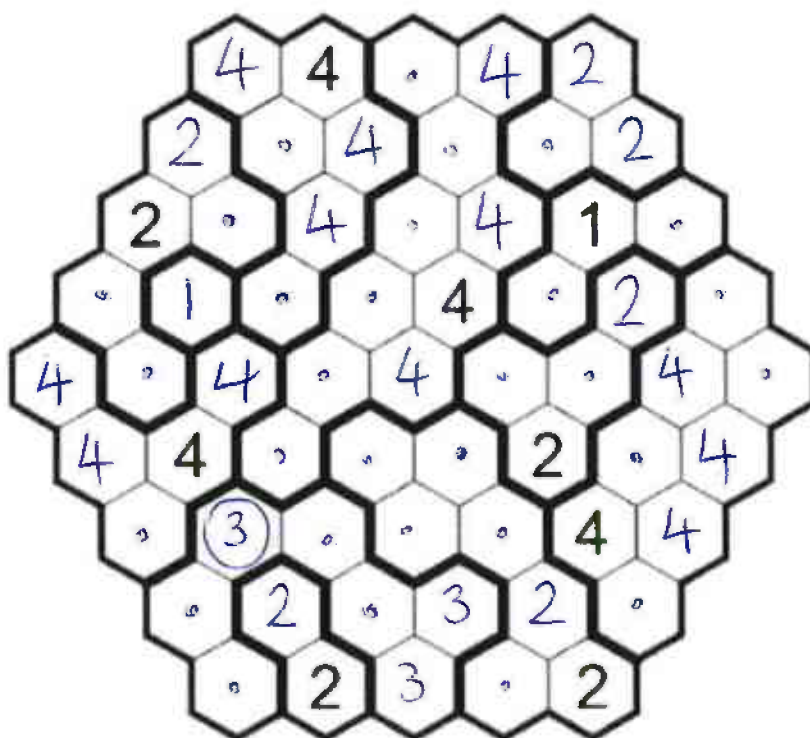
3	3	2	.	3	2	1	.
3	.	.	2	3	.	2	.
2	.	5	2	.	3	.	.
1	4	5	.	5	5	3	3
.	.	4	5	3	.	.	.
4	4	.	4	.	.	.	3
.	4	.	4	.	.	3	2
2	2	4	2	2	3	2	.

Puzzle 3

4 points

Hex

Nanro



Puzzle 4

2 points

Killer

Nanro

⁴ 1	.	.	⁴ 2	2	.
3	⁴ 3	3	(1)	.	.
.	1	.	3	3	(3)
⁴ 2	2	.	.	⁴ .	⁴ 1
.	.	⁴ 1	3	3	3
⁴ .	2	2	.	1	.

Puzzle 5

8 points

Signpost

Nanro

⁴ .	4	4	4	4	2	2	1	³ 3
⁴ 4	.	.	1	² .	.	.	.	3
4	4	4	.	² 2	2	.	.	3
³ 3	³ .	3	3	3	.	⁵ 5	.	1
3	3	.	1	.	1	5	5	5
⁶ 6	³ .	3	¹ .	1	.	5	.	.
6	² 2	3	3	⁴ 4	4	4	⁵ 5	5
6	.	2	² .	2	.	4	.	5
6	6	6	2	² .	2	2	5	5

Puzzle 6

12 points

Classic

Nanro

23	1	23	23	.	.	23	23	23
23	.	23	.	23	23	23	.	23
23	.	2	2	23	.	6	6	23
23	23	23	.	23	23	23	.	23
23	.	3	.	23	.	6	6	23
23	.	23	23	23	23	23	.	23
23	3	3	.	23	.	6	6	23
.	23	.	23	.	23	.	23	.
23	1	23	23	23	23	23	1	23

Puzzle 7

9 points

Coded

Nanro

7	.	6	.	6	.	6	.	6
7	7	N	I	C	E	3	3	6
7	.	8	.	4	.	4	.	1
7	8	C	O	D	E	D	1	.
7	.	.	2	.	3	.	3	1
8	8	6	6	6	6	6	.	.
7	.	8	.	8	.	8	2	1
7	1	N	A	N	R	O	.	5
7	.	7	.	7	.	5	5	5

A 1
O 2
E 3
D 4
R 5
C 6
N 7
I 8

Puzzle 8
21 points
Frame Sum
Nanro

	8	7	5						
	4	4	3	.	3	3	2	2	7
	4	.	2	.	.	.	.	(4)	
	.	4	2	5	5	5	.	(4)	
	4	(5)	.	5	.	(3)	(4)	(4)	11
8	4	.	4	(3)	.	3	.	.	
	4	.	2	.	.	2	2	.	4
	.	.	2	.	.	.	3	.	
	4	4	4	.	4	3	3	.	
	8	4	0	5					

Puzzle 9
7 points
Inverse
Nanro

1	3	2	2	.	1
3	.	.	.	.	4
3	1	2	.	4	4
.	.	.	.	.	4
3	.	1	.	2	1
3	.	3	.	.	.

Nanro

4	4	4	.	.	.	2	3
2	.	⑤	4	.	2	3	.
2	5	.	⑤	①	3	.	.
.	⑤	5	.	.	4	2	.
4	.	3	3	.	.	4	2
4	4	3	.	.	4	4	.
.	3	.	3	②	②	.	.
4	3	.	.	.	1	2	2

Magro

[illegible]

When you have completed as many puzzles as you can, email a list of your puzzle times and answer keys to adam@ukpuzzles.org . For the examples below you would say: Example Nanro - 23 seconds - 212122, Example Magnets - 23 seconds - -+X+ or NPXP

x	3	3	3	x
3	4	x	4	3
x	3	4	4	x
1	3	x	2	3
x	4	4	x	3
4	4	x	x	2

$$\begin{array}{r}
 + \quad 2 \ 1 \\
 - \quad 1 \ 1 \\
 \hline
 \begin{array}{cc|cc}
 x & x & x & - \\
 - & + & x & + \\
 + & - & + & - \\
 - & + & - & +
 \end{array}
 \end{array}$$