

WPF PUZZLE GP 2023 COMPETITION BOOKLET

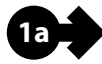
Host Country: Germany

Gabriele Penn-Karras, Jürgen Blume-Nienhaus

Special Notes: Puzzles 9-16 have identical rules to Puzzles 1-8, but are paired with extra “Persistence of Memory” instructions. Solving both puzzles in a pair will result in a “malus” of negative points (it is still advantageous, however, to solve both puzzles instead of solving just one). See details on the relevant pages. In an earlier version of the Instruction Booklet, the solution for the example for puzzle #9 was incorrect. This has been fixed.

1. Cave [Jürgen Blume-Nienhaus] (27 points)

Shade some cells to leave behind a single orthogonally-connected group—the cave—with no shaded cells enclosed within the cave. In other words, all shaded cells must be connected edge-wise by other shaded cells to an edge of the grid. All numbered cells must be a part of the cave (and therefore not shaded). Each number indicates the total count of unshaded cells connected in line vertically and horizontally to the numbered cell *including the cell itself*.

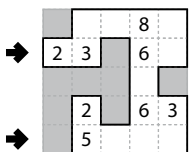


	5				
	3				7
				5	7
		3		5	7
		3		5	7
				5	7
	2				7



Answer: For each designated row, enter its contents from left to right. Use ‘o’ for an (unshaded) cell occupied by the cave and ‘x’ for a (shaded) cell not occupied by the cave. You may use other characters, as long as they are distinct.

Example Answer: ooxoo, xoooo

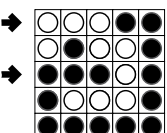


2. YinYang [Jürgen Blume-Nienhaus] (9 points)

Fill each cell with either a black or a white circle. All cells with black circles must be connected orthogonally, and all cells with white circles must be connected orthogonally. Every 2x2 group of cells must contain at least one black circle and at least one white circle. Some cells are already filled in for you.

Answer: For each designated row, enter its contents from left to right. Use ‘o’ for a white cell and ‘x’ for a black cell. You may use other characters, as long as they are distinct.

Example Answer: oooxx, xxxox



●						
	●		○			○
		●			○	
	●		●			○
		○			○	
	○			●		○
○						





5. Japanese Sums [Gabriele Penn-Karras] (37 points)

Place a number from the specified list into some cells so that no number appears more than once in each row or column. Cells may remain empty. Numbers outside the grid indicate all sums of continuous groups of numbers (including "sums" of a single number) along that row or column, in positional order. These groups are separated by empty cells. A question mark (?) indicates an unspecified (but non-zero) sum. Some cells might be marked with a cross; do not put any numbers into those cells.

Answer: For each designated row, enter its contents, using 'x' for an empty cell. Do not include any numbers outside the grid.

Example Answer: 7x1x4, 127x5

		3	11		6		
{1-7}		13	2	19	1	24	
7	8	3	4		2	6	
	18		7	5	4	2	
→	7	1	4	7		1	x
→	10	5	1	2	7		5
	5	14	5		6	1	7

	7	5	5	7	6		3
{1-6}	6	4	5	7	6		4
	5	6	5	7	6		3

5a →

5 5 5

3 6 1

7 7 7

7 6 4

6 6 6

5b →

4 4 2

6. Doppelblock [Gabriele Penn-Karras] (48 points)

Place either a block or a number from 1 to X into each cell so that each number appears exactly once in each row and each column. (X is two fewer than the number of cells in each row.) Each row and each column will therefore have exactly two cells with blocks in them. The numbers outside the grid indicate the sum of the numbers between the two blocks in that row or column. Some cells may already be filled in for you.

Answer: For each designated row, enter its contents from left to right. Use 'x' to denote a block. Use only the last digit for two-digit numbers; e.g., use '0' for the number 10. Do not include any given numbers outside the grid.

Example Answer: 21xx3, 1x23x

		2			0
4		x	3	1	x
→		2	1	x	3
6		x	2	3	1
→	5	1	x	2	3
		3	x	x	2

6a →

6b →

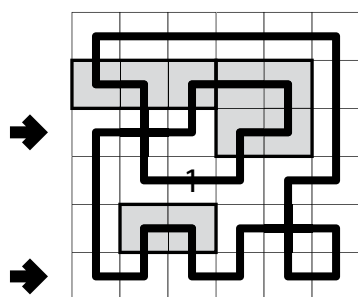
	16		1	7	4		19
15							
6							
17							
18							
6							
5							
14							

11+12. Persistence of Memory (-31 points)

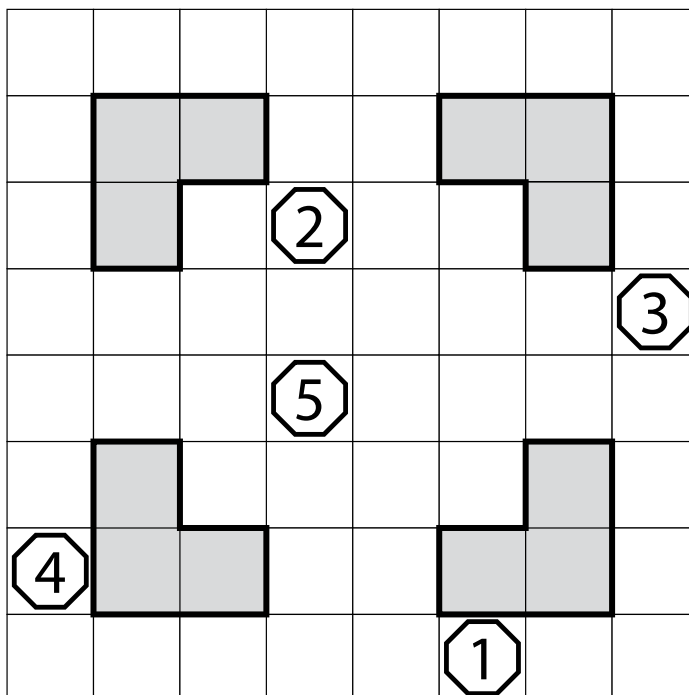
Highlighted regions of the same shape and orientation must contain the same contents in these two puzzles. Regions will not contain Railway numbers or Masyu circles. Note that if you get points for both puzzles, 31 points will be *subtracted* from your score.

11. Railway [Jürgen Blume-Nienhaus] (37 points)

Example Answer: LXLLLLI, LLLLLL



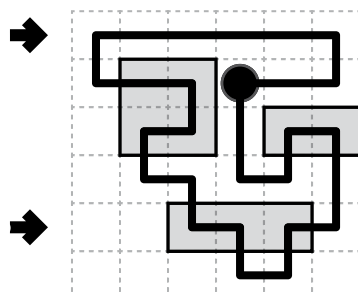
11a →



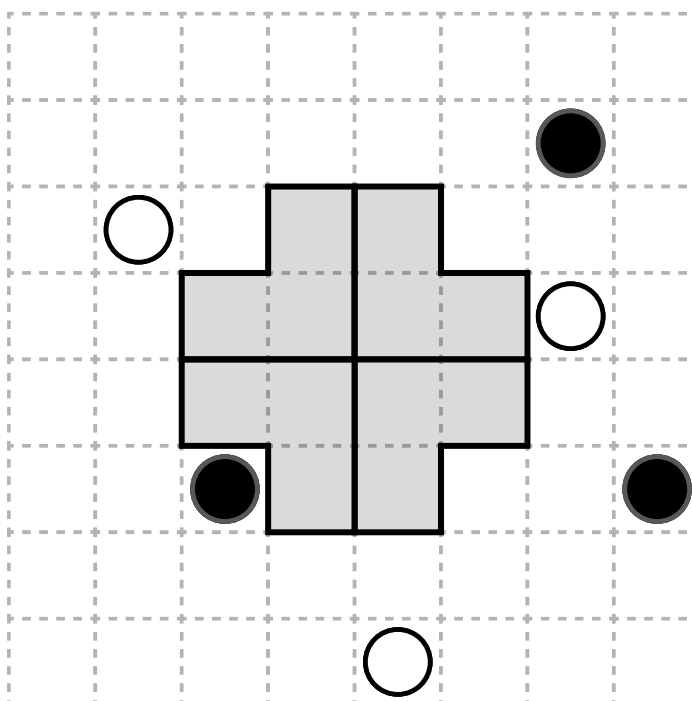
11b →

12. Masyu [Jürgen Blume-Nienhaus] (37 points)

Example Answer: LIIIIIL, XXLLLLL



12a →



12b →

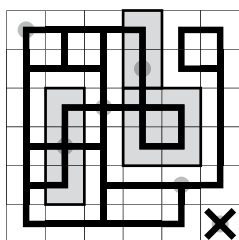


15+16. Persistence of Memory (-108 points)

Highlighted regions of the same shape and orientation must contain the same contents in these two puzzles. Note that if you get points for both puzzles, 108 points will be *subtracted* from your score.

15. Underground [Gabriele Penn-Karras] (173 points)

Example Answer: LXXITX



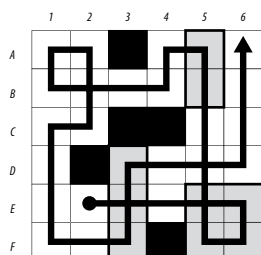
→ L X X I T X

L 4 2 5 5
 1 1
 T 1 1 1 3
 + 4
 1 1 1 1 1 1 1 1
 2 2 1 1 1 1 1 1
 5 2 1 1 1 1 1 1
 2 2 1 1 1 1 1 1
 5 1 1 1 1 1 1 1
 7 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1

15 → ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

16. Tiger in the Woods [Jürgen Blume-Nienhaus] (115 points)

Example Answer: E2, A6



16 1 2 3 4 5 6 7 8
 A ■ ■ ■ ■ ■ ■ ■ ■
 B ■ ■ ■ ■ ■ ■ ■ ■
 C ■ ■ ■ ■ ■ ■ ■ ■
 D ■ ■ ■ ■ ■ ■ ■ ■
 E ■ ■ ■ ■ ■ ■ ■ ■
 F ■ ■ ■ ■ ■ ■ ■ ■
 G ■ ■ ■ ■ ■ ■ ■ ■
 H ■ ■ ■ ■ ■ ■ ■ ■