



WCPN Dutch Puzzle Championships 2015

Tuesday March 24th 20.00-22.00

Sixteen puzzles: try to score as many points as you can. All puzzles have a solution code, and next to all puzzles the amount of points is mentioned. If you leave a code field empty, no points are rewarded. If the code is wrong, you'll get 30 penalty points.

This is an open championship, so everyone is invited to take part. For the official ranking (and a place in the team for the WPC) you have to be WCPN member and have the Dutch nationality. Besides, you have to be available October 11th to 18th 2015. Finally all team members have to pay the costs themselves.

It is not allowed to work in teams or use any devices. Results will be publised on Friday March 27th.

	Puzzle	Points
1	Number place	80
2	Battleships - lighthouses	90
3	No four in a row	140
4	Japanese square	274
5	Number grid	41
6	Mathrax	220
7	Skyscrapers plus	100
8	Yajillin	105
9	Neighbours	180
10	Mochikoro	60
11	Renban	145
12	Heyawake	75
13	Easy as ABCDEF	165
14	Тара	110
15	Tents	125
16	Loopy	105
		2015

There is always a possibility that the results form doesn't work properly. In that case, make a screenshot and send it to wcpn@ziggo.nl

Results will be publised on Friday March 27th. Protest about these results is not possible, but of course you can ask questions.

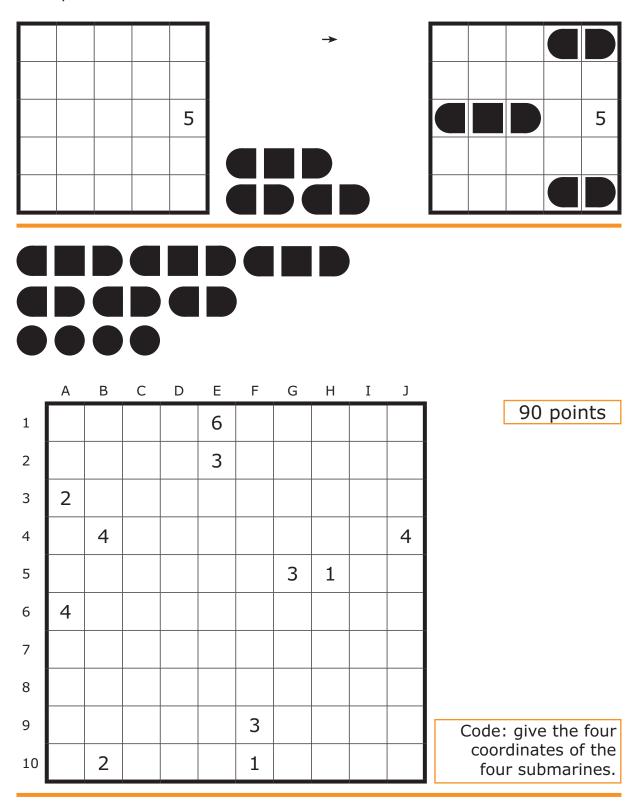
1 Number place

Place the given numbers in the grid, horizontally or vertically.

	2232 2321 2345 5432	→	2 2 3 2	3	5 4 3 2	5
12653 25316 28497 28755 32115 48569 49376 53177 63942 64398 66524 83516 86729 94122				80) poi	nts
				a	Co what Ill fig on rov	ures

2 Battleships - lighthouses

A cell with a number is a lighthouse, and it indicates the total number of ship segments in the same row and column of the lighthouse. Ships do not touch each other or the lighthouses, not even diagonally.



3 No four in a row

Fill in the grid with 'X' or 'O'. Four consecutive 'X's and 'O's do not appear horizontally, vertically or diagonally.

	0		0		0	0
					0	
Х	0	Х		Х	Х	
					Х	
		Х	Х	Х		
Х					0	0
0			0	0		Х

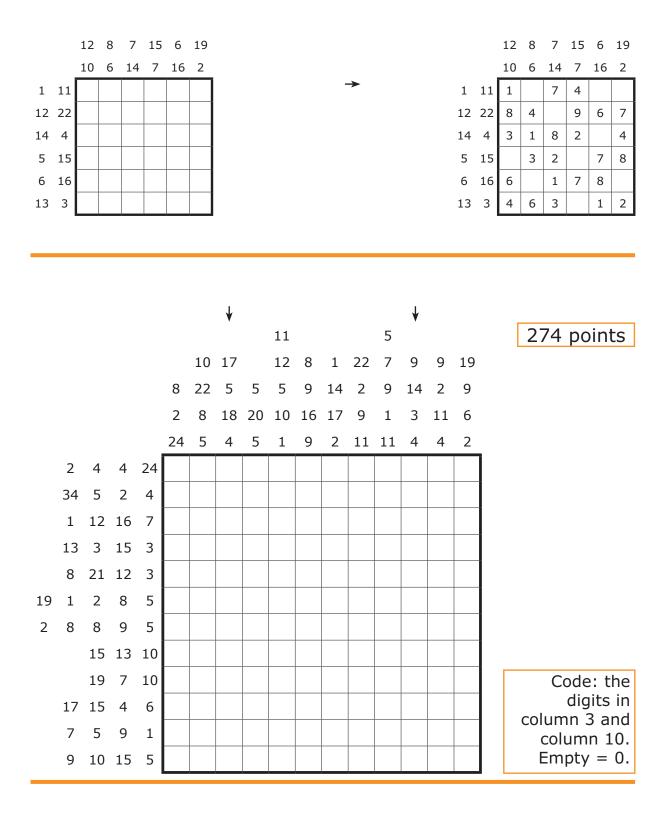
\rightarrow

Х	0	0	0	Х	0	0
0	Х	0	Х	0	0	0
Х	0	Х	0	Х	Х	0
Х	0	Х	0	Х	Х	Х
0	0	Х	Х	Х	0	0
Х	Х	0	Х	0	0	0
0	Х	0	0	0	Х	Х

	1	1	♦	1	L		♦		1	
	0	0	0			X			0	140 points
	Х	0				Х				
								0	0	
0									0	
		Х	Х	0						
Х		0			0		Х		Х	
						0			0	
	Х							Х		
Х	Х		Х				0		0	Code: the symbols in
	0	0	0		0		0		0	column 4 and column 8.

4 Japanese square

Place digits 1–9 into the grid so that no digit is repeated within a row or column. Numbers outside the grid indicate the sums of contiguous blocks of digits in that row or column. Blocks have to be separated by at least one empty cell.



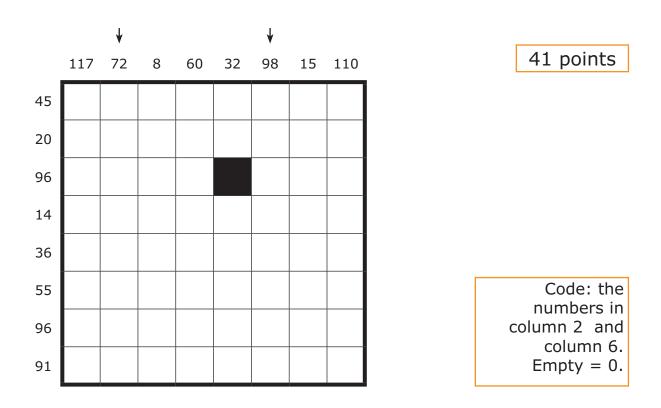
5 Number grid

The grid contains the numbers 1 to N exactly once, two of them on each row and in each column. The numbers outside the grid indicate the product of the two numbers in that row or column.





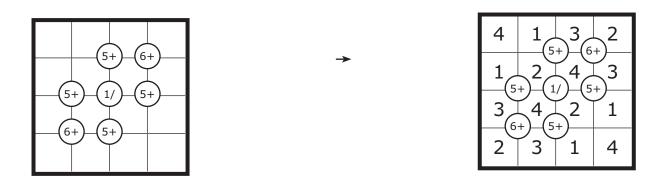
Puzzle (1-16)

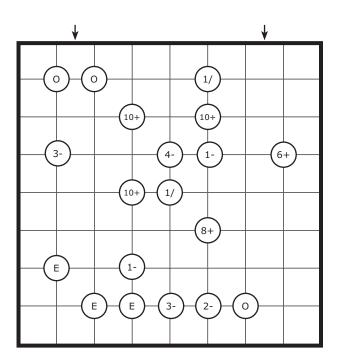


6 Mathrax

Fill in the digits 1-8 on each row and column. On some intersections you find hints. E means that in all four squares the number is even, and O means that all four numbers are odd. A number and a sign (+, -, x, /) means that that is the result of the both two paired diagonally adjacent squares.

Example (1-4)



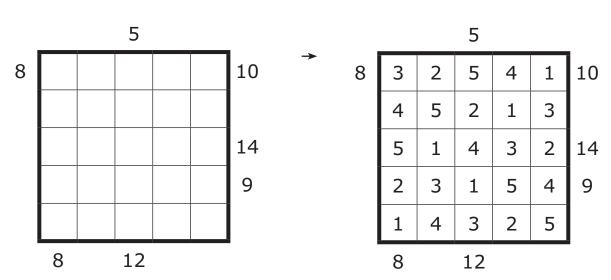


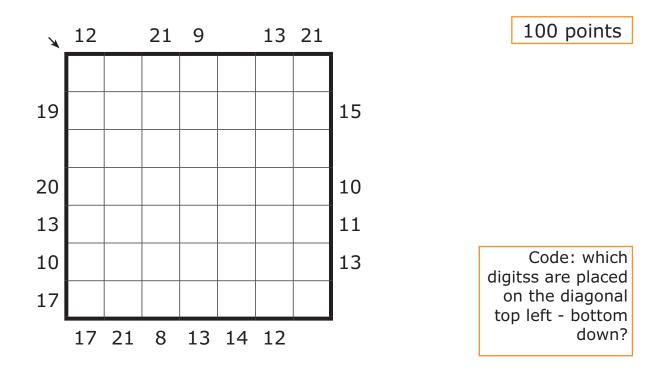
220 points

Code: what are the digits in columns 2 and 7?

7 Skyscrapers plus

Place the digits 1-7 in every row and column. Each digit indicates a skyscraper of that height. Numbers outside the grid indicate the sum of the visible skyscrapers.





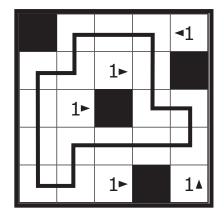
Example (1-5)

8 Yajillin

Paint some cells black so that every arrow points to exactly the corresponding number of black squares. Black squares cannot touch each other from the sides but they may touch diagonally, and all remaining white cells not occupied by an arrow or not blackened should be traversed by a single closed loop that connects the centers of adjacent squares and doesn't cross itself. Draw the loop and blacken all the necessary squares.

		◄1
	1►	
1►		
	1►	1



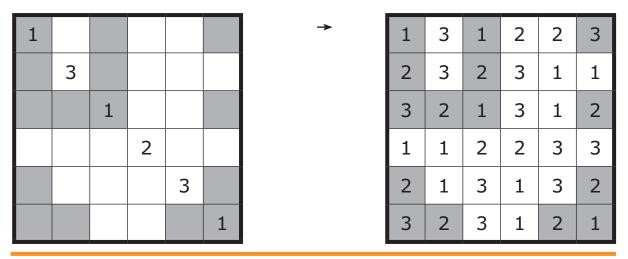


2►									10)5)5 p)5 pc)5 poir	5 point
		1•												
						⊲ 3								
1►						◄1								
			⊲ 0		1		⊲ 0							
	0►		0•	2▲										
								Coc bl	ack	C	cell	cells	cells do	how mai cells do
1►									tl	ne				he solutio contai

9 Neighbours

Place digits 1–3 in the grid so that in each row and column, each digit appears three times. Digits in grey cells do not share an edge with a cell containing the same digit. Digits in white cells share an edge with at least one cell containing the same digit. All grey cells are given.

Example (2 x 123)



	↓				↓	
			1			
		2		1		
1						2
		1		3		
			2			

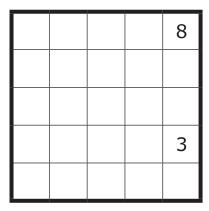
180 points

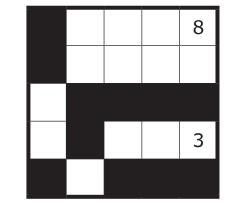
Code: the digits in column 3 and column 7.

10 Mochikoro

Blacken some cells in order to form rectangular areas of white cells. No two areas share an edge, but all areas are interconnected through their corners. All numbered cells are part of a white area, but not all white areas have a number. The number indicates the amount of white cells in that area, including the cell with the number. Blackened areas of 2x2 cells are not allowed.

Example





2			8			
					8	
4				8		
		6			4	
				4		

60 points

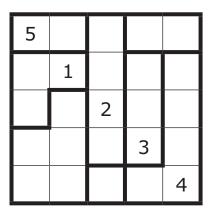
Code: how many areas have no number inside?

11 Renban

Place the figures 1-8 on each row and in each column. Figures in black edged regions are consecutive.

->

Example (1-5)

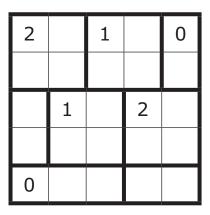


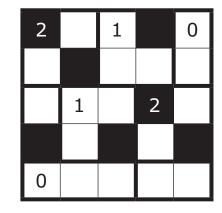
5	4	3	1	2
2	1	4	5	3
3	5	2	4	1
4	2	1	3	5
1	3	5	2	4

						¥
2					3	145 poir
			7			
		7				
				8		
	1					
			5			
		1				Code: what digits m be placed in the diago
1					5	from the upper right to bottom le

12 Heyawake

Blacken some cells of the grid, so that black cells don't touch each other, except diagonally. All white cells remain orthogonally connected. A hint inside a region gives the number of black cells in that region. Hints may be blackened, but still hold. No horizontal or vertical sequence of white cells may span more than two regions.





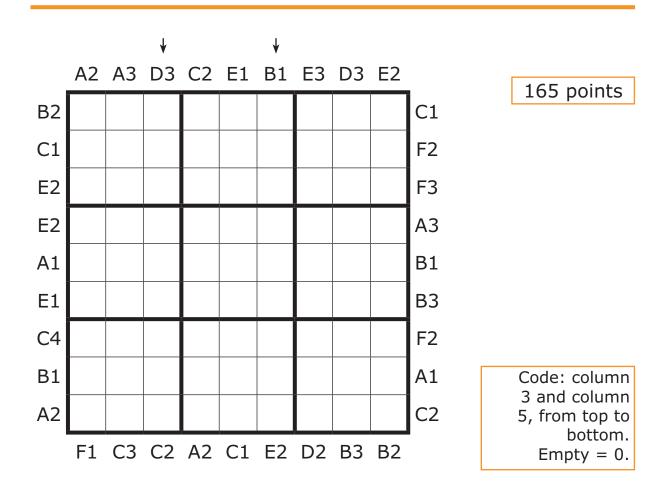
		4			0		75 points
2					3		
		0					
							Code: how many black cells does the
	T		3				solution contain?

13 Easy as ABCDEF

Fill in the grid with letters ABCDEF so that each row, each column and each 3x3 block contains each letter exactly once. Some cells remain empty. Letters outside the grid indicate the relative position of the letter in that row or column.

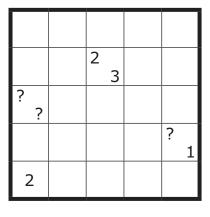
Example (AB)

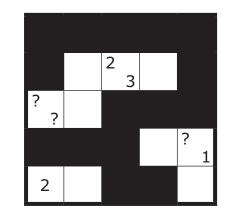




14 Тара

Grid cells must be filled in so that all the black cells form one contiguous region, not counting cells touching at a corner to be adjacent, but it is not allowed to have a two by two square of black cells. Clue cells with numbers may not be filled in and tell the length of each consecutive black cell block in the eight surrounding cells. Two cell blocks clued by two different numbers must be separated by at least one white cell.

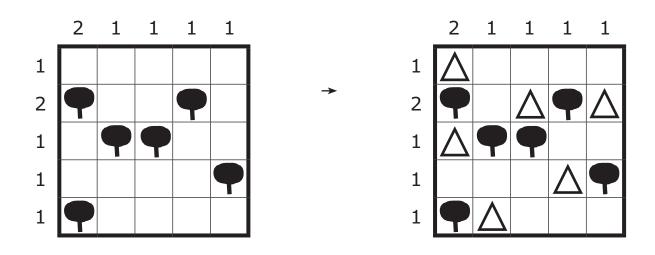


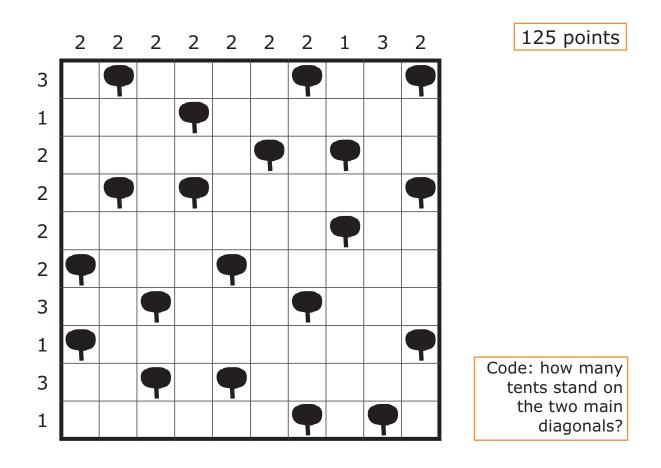


	♦			I	I		¥		110 points
								2	
	1 2				5	?			
								3	
			?? 2				3 3		
2									
	? ?							3	
					2 2				
		3 3					2 3		Code: count the black cells in
				1 1				3	columns 2 and 8. Separate those
	3								two numbers with an 0.

15 Tents

Place a tent next to each tree, in a horizontally or vertically adjacent cell. Cells with tents do not touch each other, not even diagonally. Numbers outside the grid indicate the number of tents in that row or column.





16 Loopy

The grid contains the numbers 1 to 32 each twice. Draw a continuous loop that does not intersect or overlap and contains all numbers exactly once. The loop only travels horizontally and vertically.

Example (1 to 8)

1	8	7	5
6	1	4	6
2	8	4	2
3	3	5	7

2821411325189261425761330133271632	16 15 31 1	8 12 29 7	24 28 31 20
25 18 9 26 14 25 7 6 13 30 13 3 27 16 32	31	29	31
25 7 6 13 30 13 3 27 16 32			
13 3 27 16 32	1	7	20
	1	1	
	9	17	2
2 32 12 11 29	15	26	19
20 10 27 14 4	23	10	1
24 23 5 5 22	6	18	8

1	8	7	5
6	1	4	6
2	8	4	2
3	3	5	7

	points
103	DOILITS
	P • · · · • •

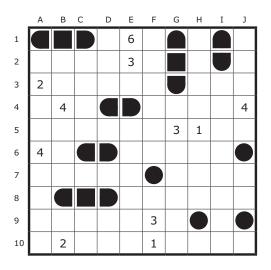
Code: what is the sum of the cells in column 7 that contain parts of the route?

Solutions

1 Number place

2		2		6	4	3	9	8		4		1
8	3	5	1	6		2		6	3	9	4	2
4		3		5	3	1	7	7		3		6
9	4	1	2	2		1		2	8	7	5	5
7		6		4	8	5	6	9		6		3

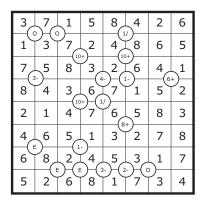
2 Battleships - lighthouses



4 Japanese square

	2			4		1	3		7	9	8
3	8	9	1	7	6		5		2		4
1		8	4		2	3	6	5			7
4	9			3		7	8		1	2	
	6	2		9	8	4		7	5		3
	7	3	9		1		2		8		5
2			3	5		8		9		4	1
	1	6	8		4	9			3	7	
8	4	7		2	5		9	1			
9	3	5		8	7				4		6
7			5			2	4	3		1	
	5	4		1	9		7	8		3	2

6 Mathrax



3 No four in a row

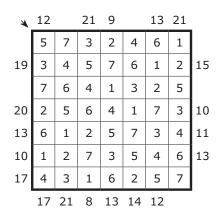
Х	0	0	0	Х	Х	Х	0	Х	0
0	Х	0	Х	0	0	Х	Х	0	х
Х	Х	0	0	Х	0	0	Х	0	0
0	0	Х	Х	х	0	Х	Х	0	0
0	Х	Х	Х	0	Х	0	0	Х	Х
х	0	0	Х	0	0	Х	Х	0	Х
Х	0	0	0	Х	Х	0	0	Х	0
0	Х	Х	Х	0	0	0	Х	Х	Х
Х	Х	0	Х	Х	Х	0	0	Х	0
Х	0	0	0	Х	0	Х	0	0	0

5 Number grid

	117	72	8	60	32	98	15	110
45				15			3	
20					2			10
96		12	8					
14			1			14		
36	9			4				
55							5	11
96		6			16			
91	13					7		

Solutions

7 Skyscrapers plus



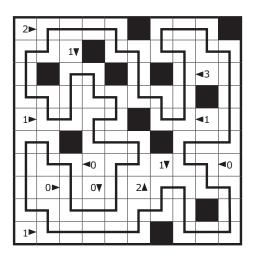
9 Neighbours

3	2	1	3	1	2	3	2	1
1	1	2	3	2	3	1	3	2
3	1	3	1	2	2	2	3	1
2	3	1	2	3	1	3	2	1
1	2	3	3	1	2	1	3	2
2	1	2	1	3	3	2	1	3
2	3	1	2	3	1	1	2	3
1	3	3	2	1	3	2	1	2
3	2	2	1	2	1	3	1	3

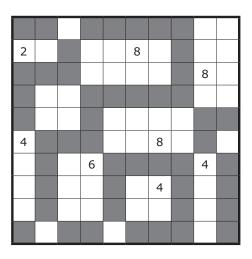
11 Renban

2	7	8	6	4	1	5	3
4	6	5	8	7	3	2	1
3	8	6	7	1	5	4	2
7	5	1	4	3	2	8	6
8	1	3	5	2	4	6	7
6	2	7	3	5	8	1	4
5	4	2	1	6	7	3	8
1	3	4	2	8	6	7	5

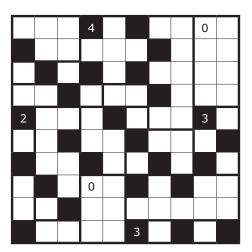
8 Yajillin



10 Mochikoro

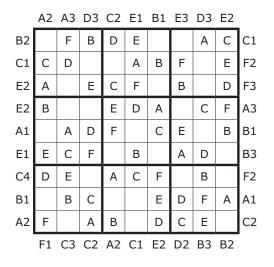


12 Heyawake

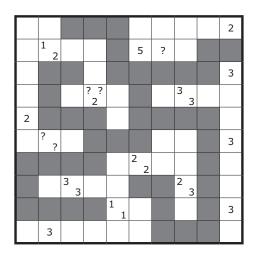


Solutions

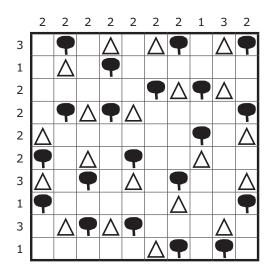
13 Easy as ABCDEF



14 Tapa



15 Tents



16 Loopy

17	21	30	22	19	16	8	24
28	21	4	11	-3	15	12	28
25	18	9	26	14	31	29	31
25	-7	6	13	30	-1	7	20
13	3	27	16	32	9	17	2
2	32	12	11	29	15	26	19
20	10	27	14	4	23	10	1
24	23	5	5	22	-6	18	8

All puzzles are made by Hns Eendebak. © WCPN 2015. All rights reserved.