NAME:

TOWN:

SCORE:

BONUS:

Hungarian Selection for

6th World Sudoku Championship
6-10 November 2011

20th World Puzzle Championship
8-13 November 2011

PART 5

17th September, 2011

14:00 – 15:30
(90 minutes)

Maximum score:
850 points

Logi-mix

Easy as EGER	20 (10+10)
Hexa Tents	35 (15+20)
Lovers' Path	15
Fences	45 (20+25)
Domino Figure	45
Tria Skyscrapers	25 (10+15)
Honey Seven	25
Islands (Nurikabe)	30
Multiplication Table	50 (20+30)
Easy as Rummy	70
Scrabble	50
Packed Crossword	25
Plus-Minus	40 (15+25)
Bridges (Hashi)	30
S-Policy	65 (20+45)
Way out	30 (15+15)
Populations	35 (15+20)
Every Second Breakpoint	15 (5+10)
Tria Snake	25
Cave	45 (15+30)
Card Sequences	80
Double Pentomino	50

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Eger, Hungary

PART 5

PUZZLE 1

Easy as EGER

Fill in the grid so that in each row and column contains each letter of the word EGER exactly once. Letters around the grid indicate the first letter visible from the given direction.

	E	G	E	R	R	
E	E	G	E	R		R
E		E	G	E	R	R
G	G	E	R		E	E
E	E	R		E	G	G
R	R		E	G	E	E
	R	R	E	G	E	

	R	R				
G						E
E						E
E						R
E						
	E	E	R			

10 points

					E	E	
R							G
R							
R							G
							G
	G	E	E	R		R	

10 points

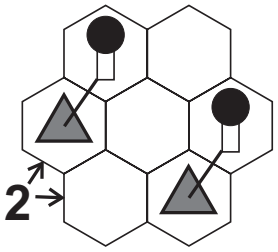
Hexa Tents

PART 5

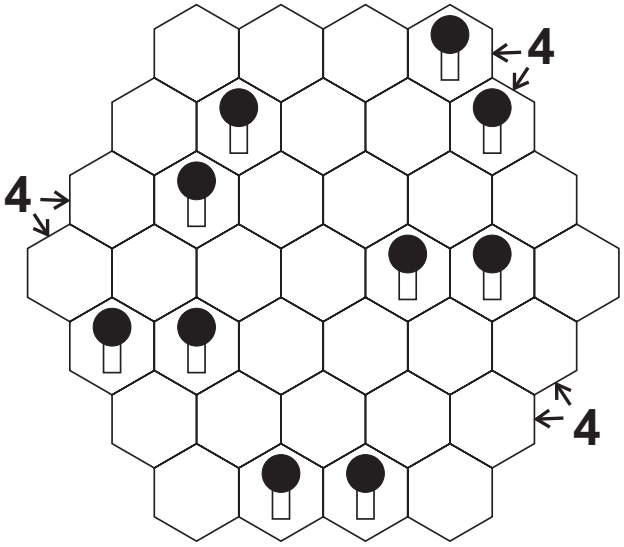
PUZZLE 2

Each tree in the figure has a tent attached to it that has to be in an edge-adjacent hexagon. Tents do not touch each other, not even diagonally.

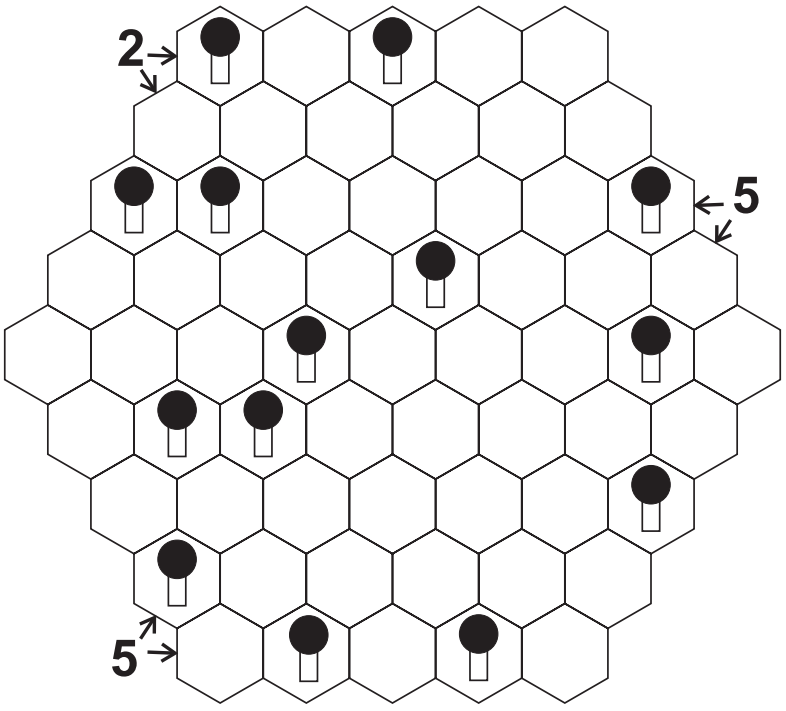
Numbers outside the grid indicate the number of tents visible in the two directions combined, as indicated by the arrows.



15 points



20 points



PART 5

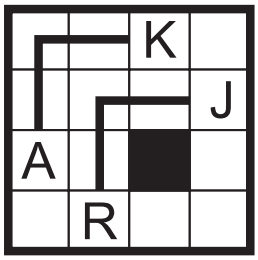
PUZZLE 3

Lovers' Path

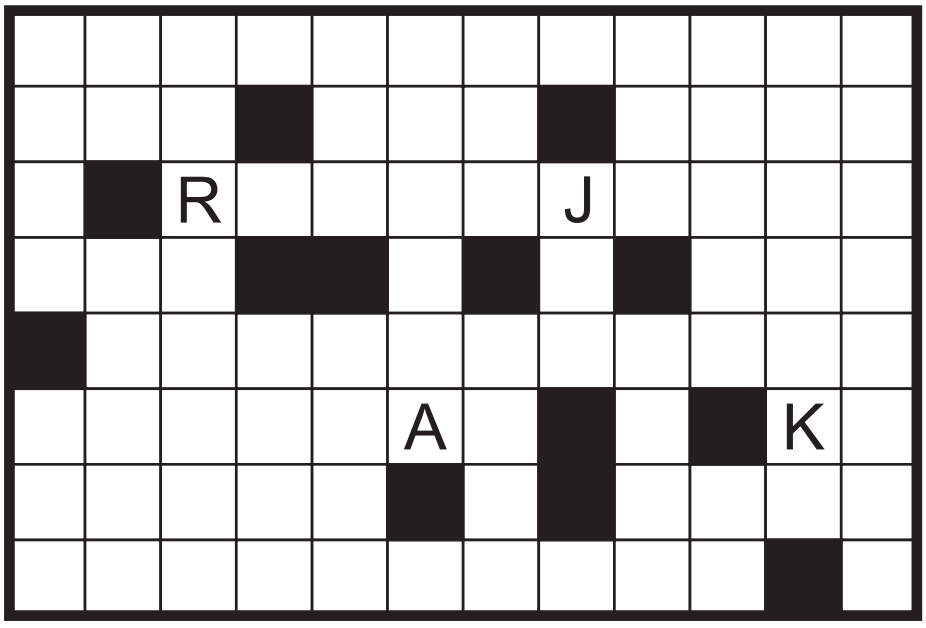
Due to an ancient curse, Antonius and Romeo can only find their true loves (Kleopatra and Juliet, respectively), if they move along identical paths.

Moves can only be made horizontally and vertically and have to avoid black squares.

The two paths can overlap or cross each other but neither of them can ever make a back turn.



15 points



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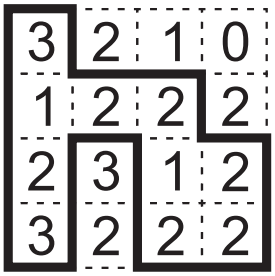
PUZZLE 4

Fences

Draw a single closed loop that only travels on the sides of the squares.
Numbers reveal the number of loop segments adjacent to them.



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

20 points

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

25 points

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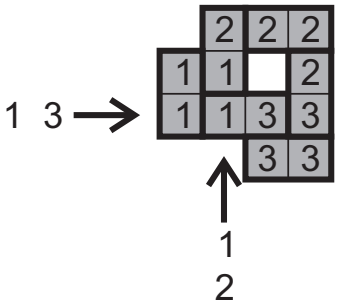
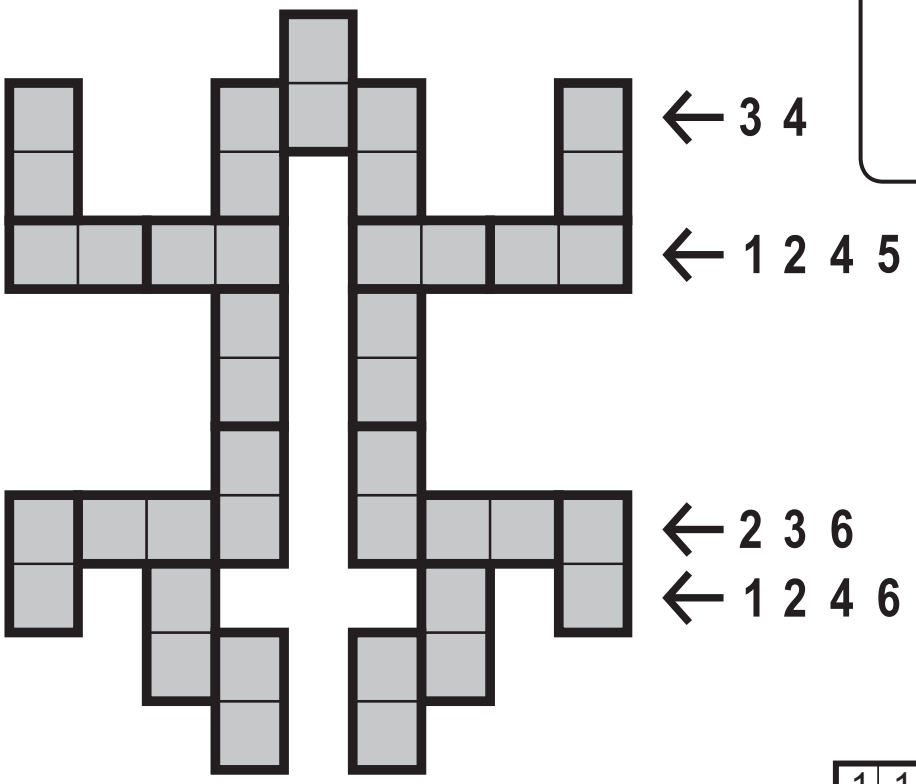
PUZZLE 5

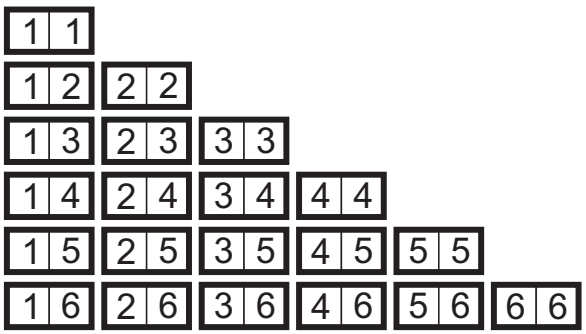
Domino Figure

The figure below was built up of the given set of dominoes such that any two touching domino halves contain identical number (of dots). Numbers aside the figure reveal the set of numbers on the domino halves in the given row or column. Find out the original arrangement.



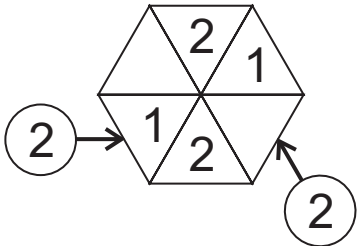
45 points





Tria Skyscrapers

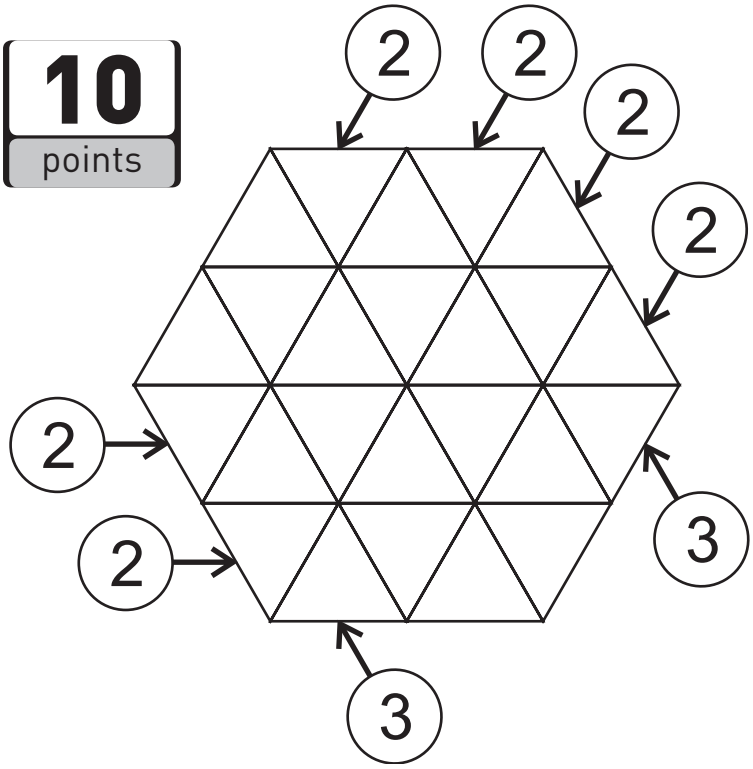
Fill in the grid such that each row and each diagonal direction contains digits through 1-4 (1-5 for the large puzzle) exactly once, representing skyscrapers. Numbers around the grid reveal the number of different skyscrapers visible from that direction (taller buildings block smaller ones from being seen).



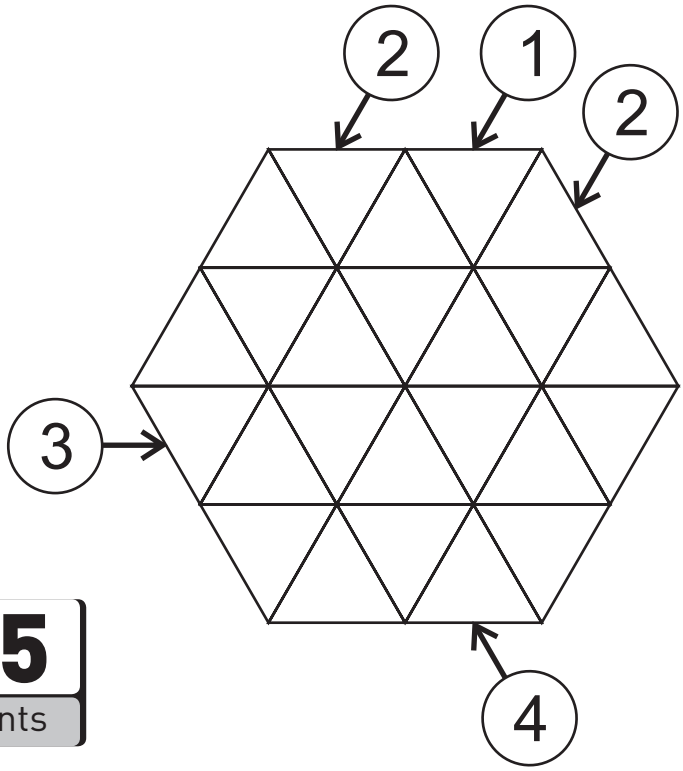
PART 5

PUZZLE 6

10 points



15 points



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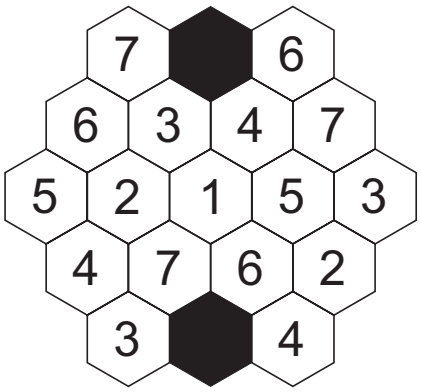
Honey Seven

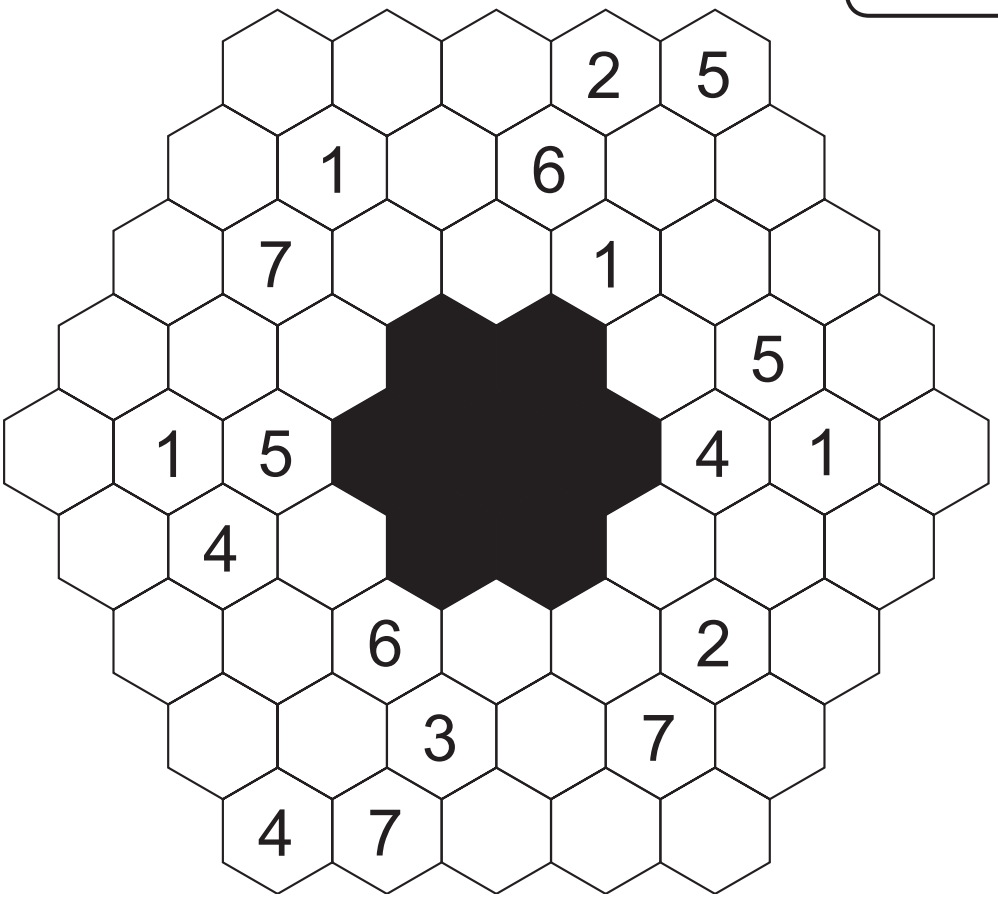
Fill in the grid using digits 1 through 7 so that the neighbours of each white hexagon are all different. Neighbours of a black square do not need to be all different.



PART 5

PUZZLE 7

25 points



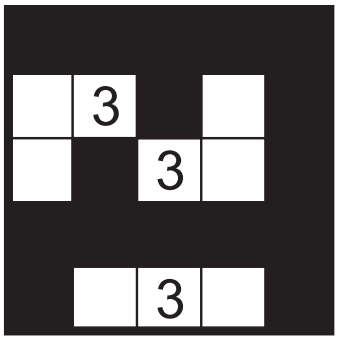
Islands (Nurikabe)

PART 5

PUZZLE 8

30 points

Each number in the grid is part of an island. The number represents the number of squares in the island, including the numbered square itself. The squares that make up an island must be connected horizontally and/or vertically.
Islands cannot touch each other horizontally or vertically; however, they can touch diagonally. The remaining squares represent water and must be painted black. The water squares form a completely connected path around the islands, where successive squares share an edge either horizontally and vertically.
No 2x2 region can be completely covered by water.



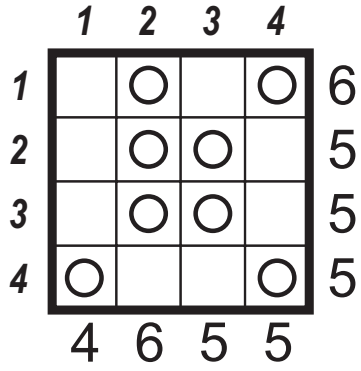
				1					2
			1						
	4						4		
		1		2				1	
									2
1		3		2					
			1		1		5		3
		3		1			2		

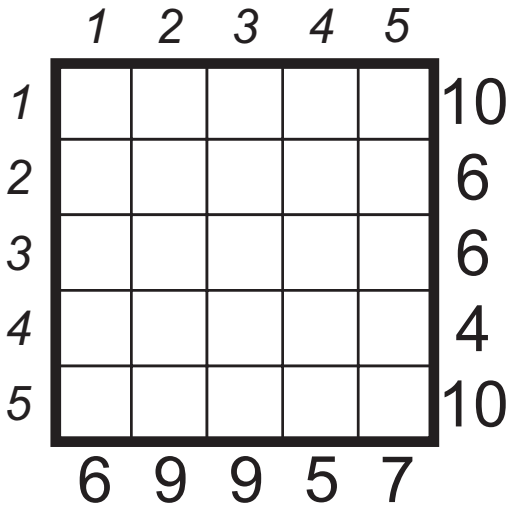
PART 5

PUZZLE 9

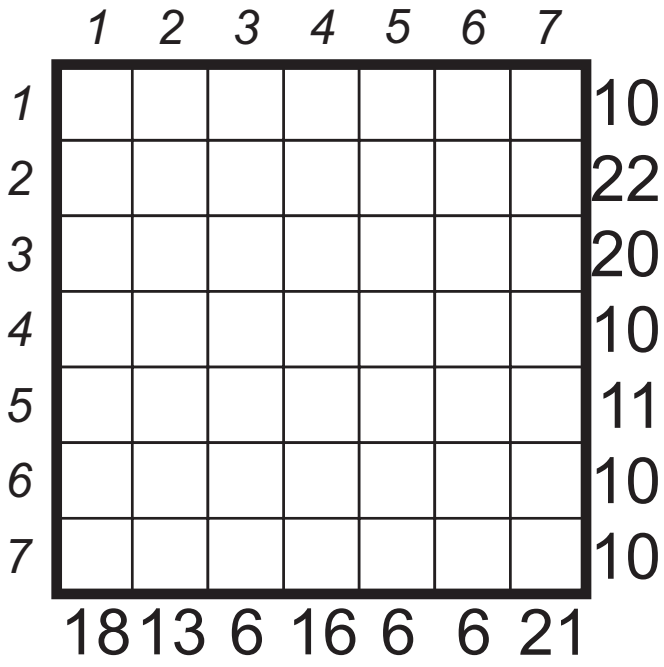
Multiplication Table

Mark some cells in the grid so that numbers below each column equal to the numbers left to marked cells in that column, while numbers right to each row equal to the numbers above marked cells in that row.





20 points



30 points

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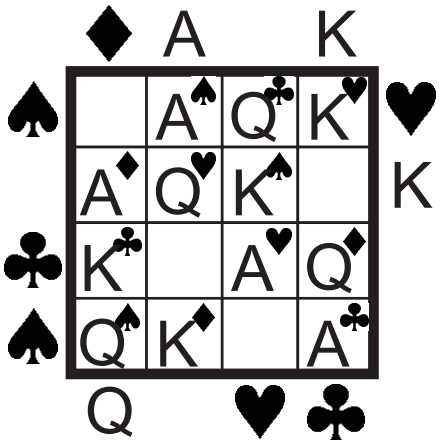
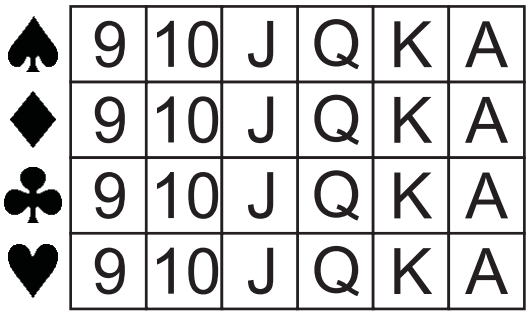
Easy as Rummy

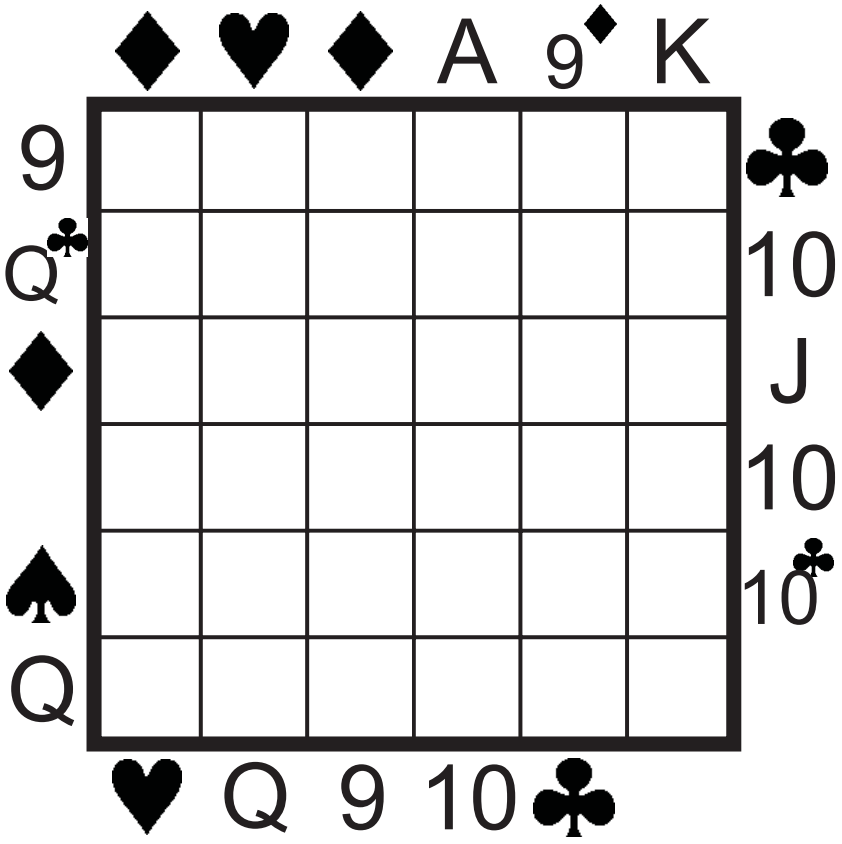
Place the given cards into the grid so that no suit or value is repeated in any row or column. Numbers and suits around the grid denote the first number and/or suit visible from that direction.



PART 5

PUZZLE 10





70 points

Scrabble

PART 5

PUZZLE 11

Place the given words into the grid so that they form a connected network with each word crossing at least two others. No new word can appear besides the given ones, not even one of length two. All letters C and H are given. Ignore spaces in the given words.

							A	
							M	
							E	
		A					R	
A	U	S	T	R	A	L	I	A
		I					C	
		A	F	R	I	C	A	

ASCONA
CER
ELLA
ESPRESSO
LAS NORIAS
NILSSEN
ORIENT
PASSEPARTOUT
PETE SAMPRAS
POSTSCRIPTUM
PREFERENCE
PRESCOTT
PRESS
RALPH FIENNES
SANTAL
SANTOS
SCAMPIA
SPRINGSTEEN
SPRINT
THAI
TRISTAN TZARA

					C						
						C					
				H							
								C			
							C				
					H						

50 points

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Packed Crossword

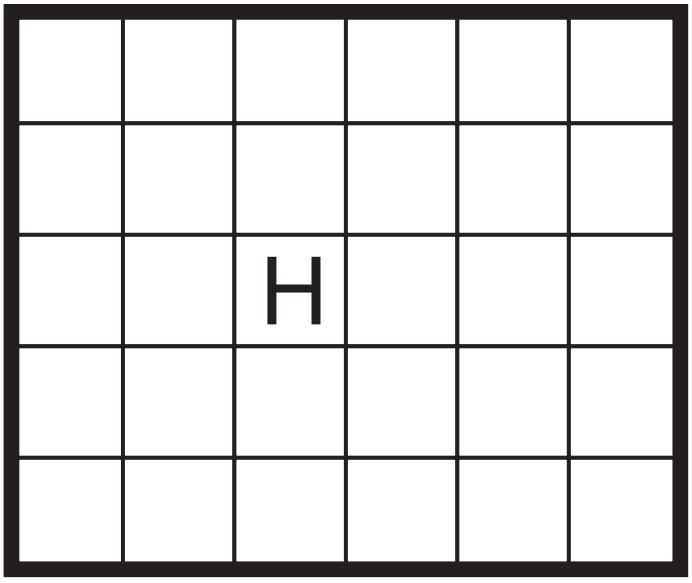
PART 5

PUZZLE 12

Place the given words and three (asymmetrically located) black squares into the grid.
Some cells are "packed", e.g. contain two or three letters. Such packed cells cannot be non-interlocking, they are part of horizontal and vertical words spanning across at least two cells.
With a correct solution, appending all packed cells yields the name of a Hungarian city.

ABAH
ANCHOR
ARC
BONCIDA
BORIKA
GOMNO
KABA
KATARZIS
MIKA
RI
SARCOL
TOBAGO
ZIDAN

BA	K	LA	V	A
TON	E	R	■	L
■	SZ	A	D	A
EM	O	■	É	V
I	N	G	R	ES



25 points

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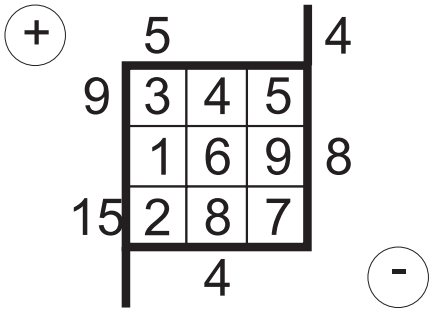
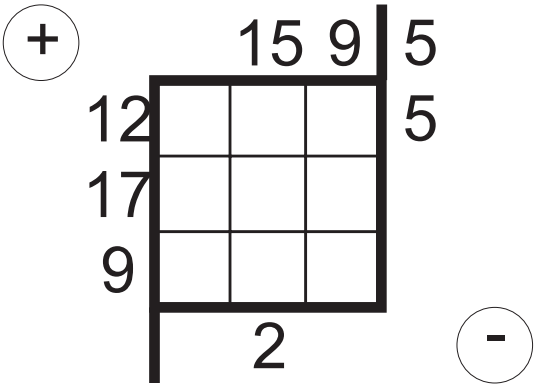
PUZZLE 13

Plus-Minus

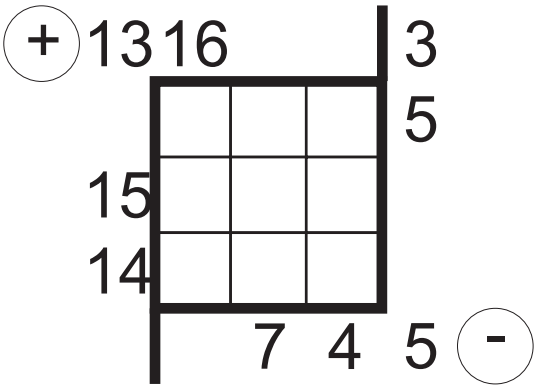
Place digits 1-9 into the grid, one per cell. Numbers above/left to the grid equal to the largest twofold sum in that row/column. Numbers below/right to the grid equal to the largest twofold difference in that row/column.



15 points

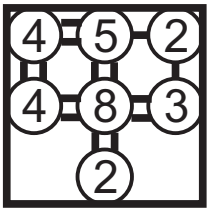


25 points



Bridges (Hashi)

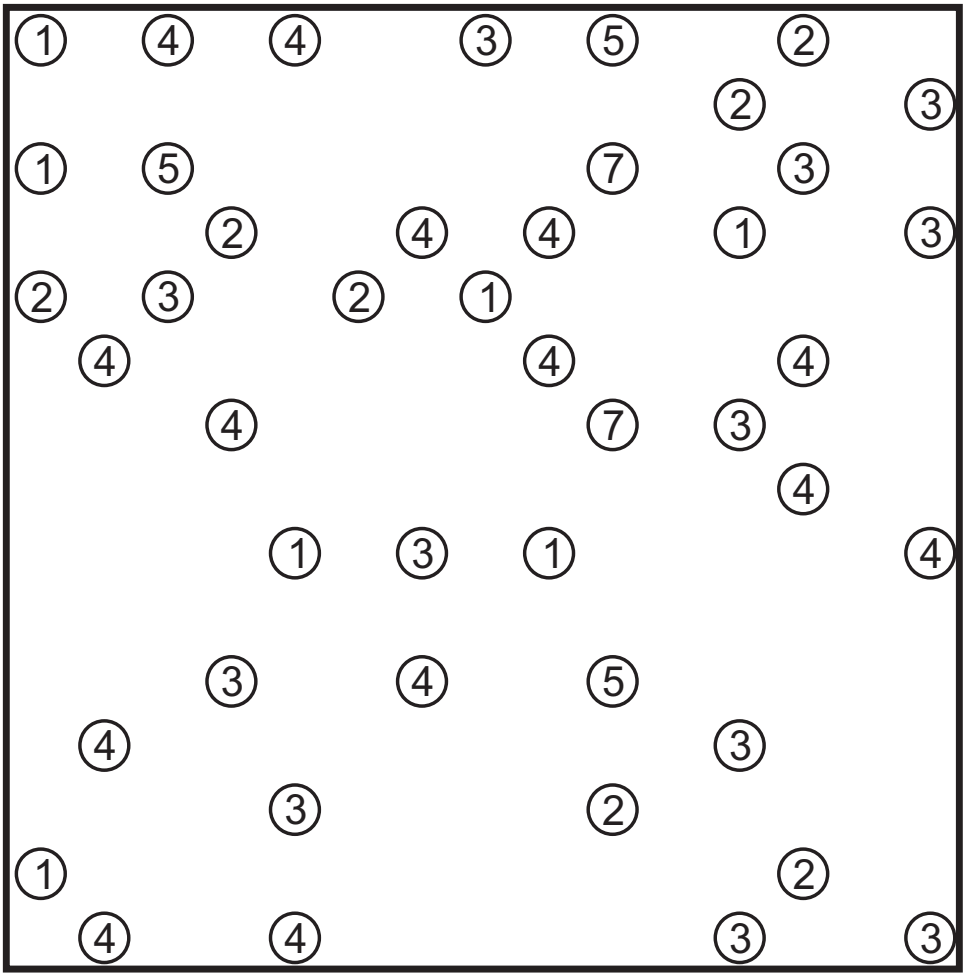
Connect the numbers (denoting islands) with straight horizontal or vertical lines (denoting bridges) so that each island contains the number of bridges it is connected to. Bridges can be of any length but cannot cross each other. The whole map is connected.



PART 5

PUZZLE 13

30 points



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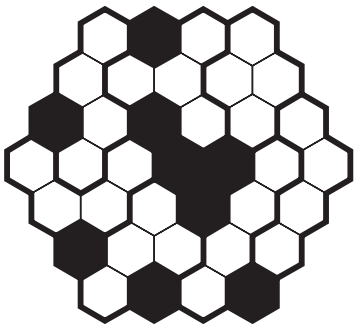
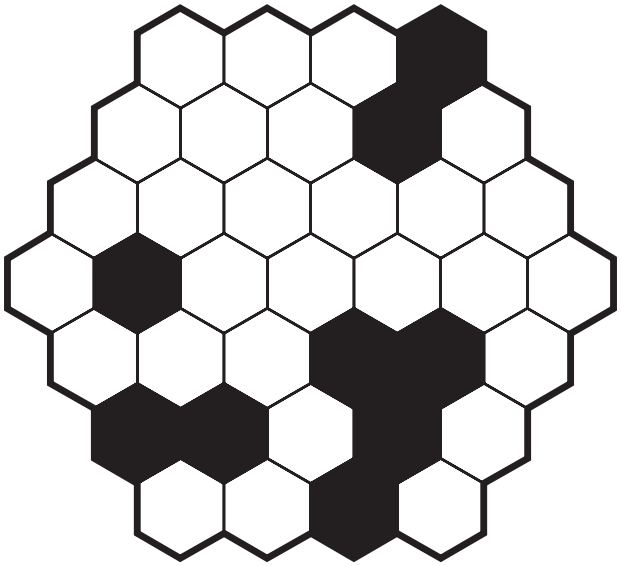
PUZZLE 14

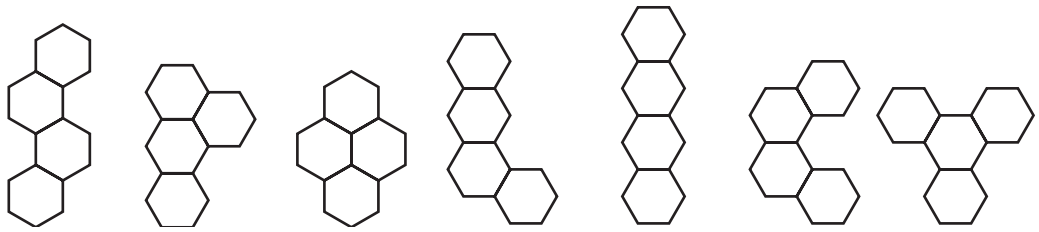
S-Policy

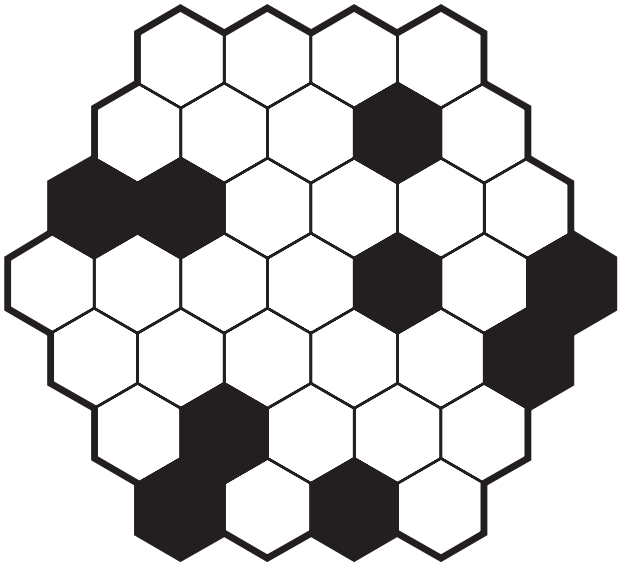
Place the given shapes into the grid so that they do not overlap each other
and no black hexagon is covered. Shapes may be rotated but not mirrored.





20 points

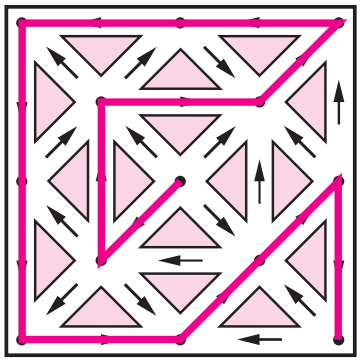




45 points

Way out

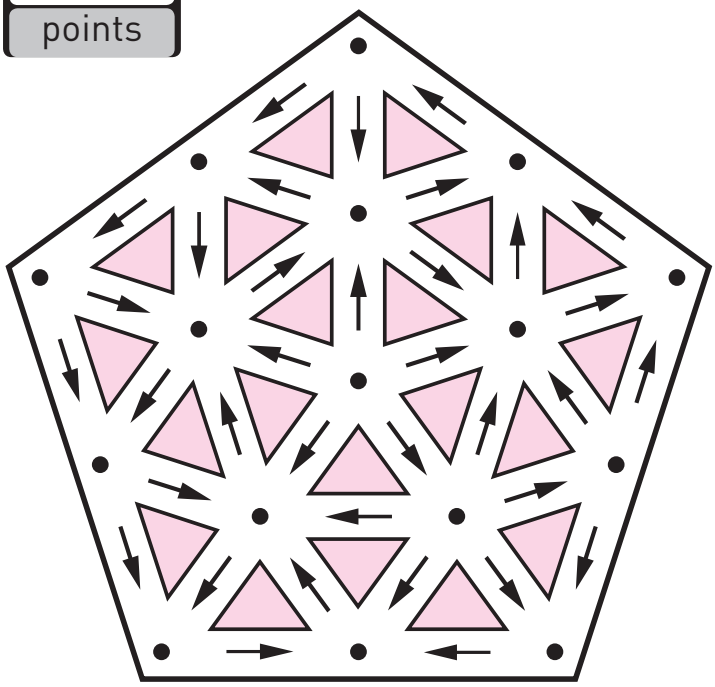
Start from the centre junction and follow the arrows to pass through all junctions to end up at a boundary junction.

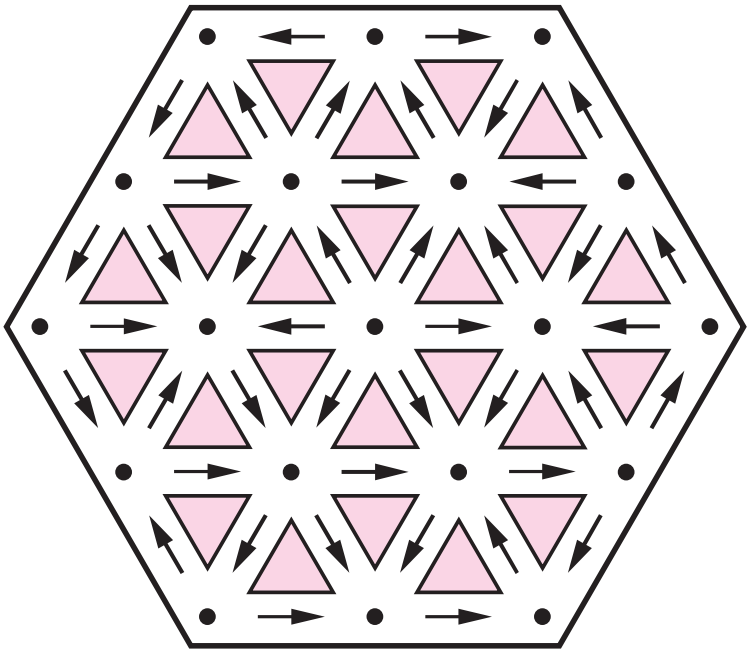


PART 5

PUZZLE 15

15 points





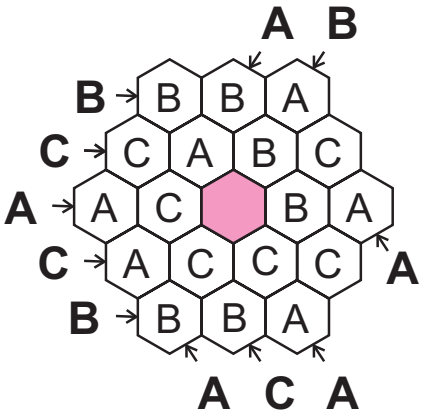
15 points

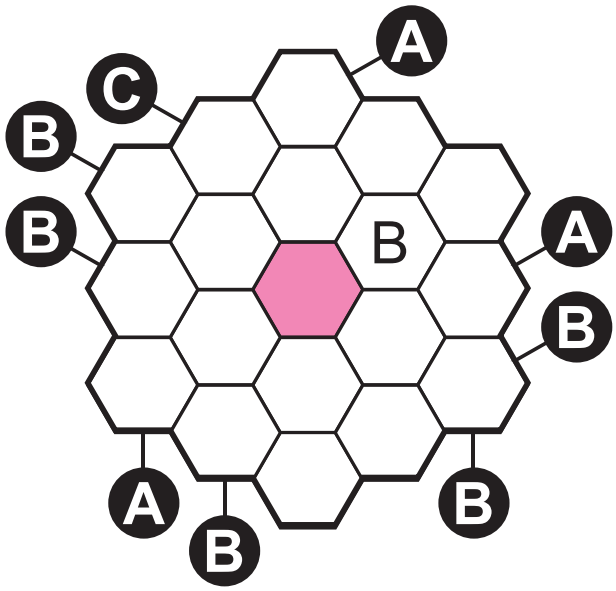
PART 5

PUZZLE 16

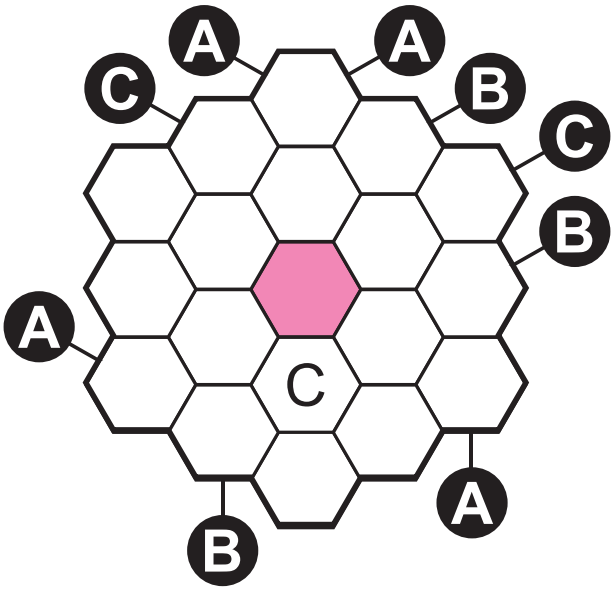
Populations

Fill in the grid with letters A, B, C so that there are six of each. Letters around the grid indicate the letter that appears most in that row/diagonal (its count should be strictly higher than that of any other letter).





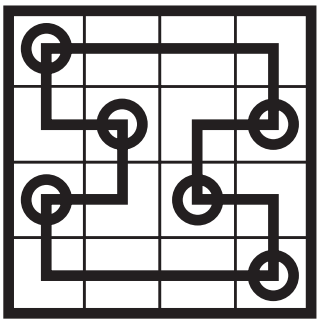
15 points



20 points

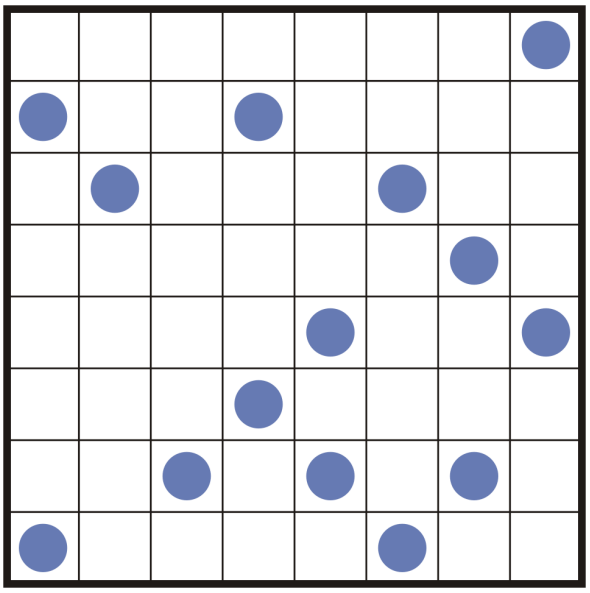
Every Second Breakpoint

Draw a single closed loop in the figure passing through all cells that only travels horizontally and vertically.
Every second cell along the loop where it makes a turn are marked with a circle.

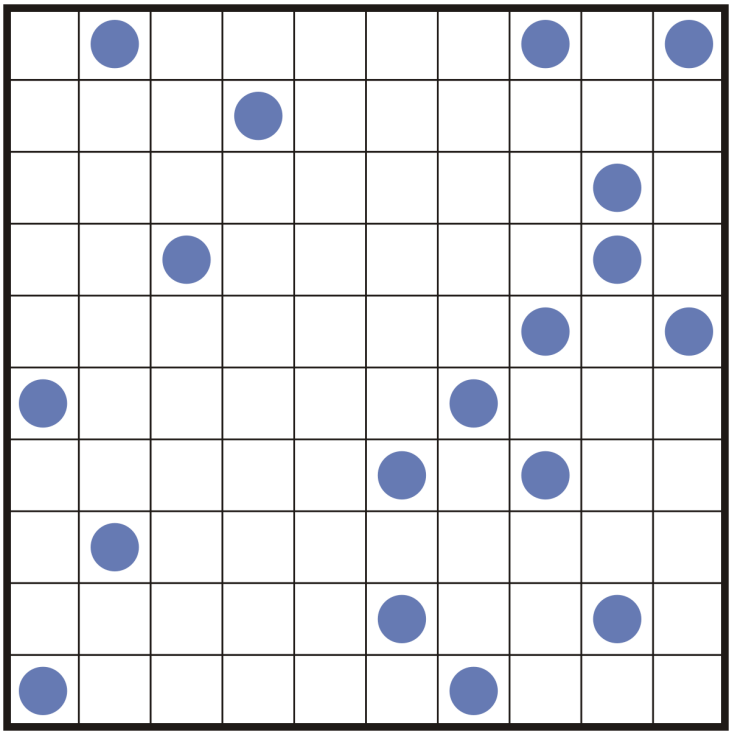


PART 5

PUZZLE 17



5 points



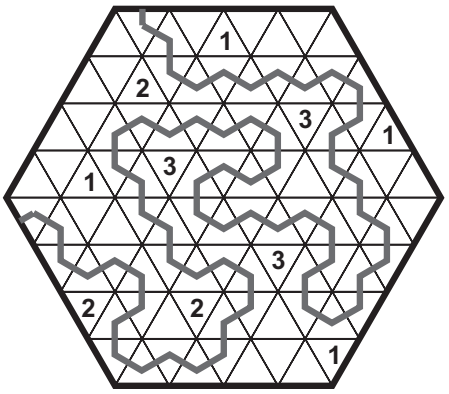
10 points

Tria Snake

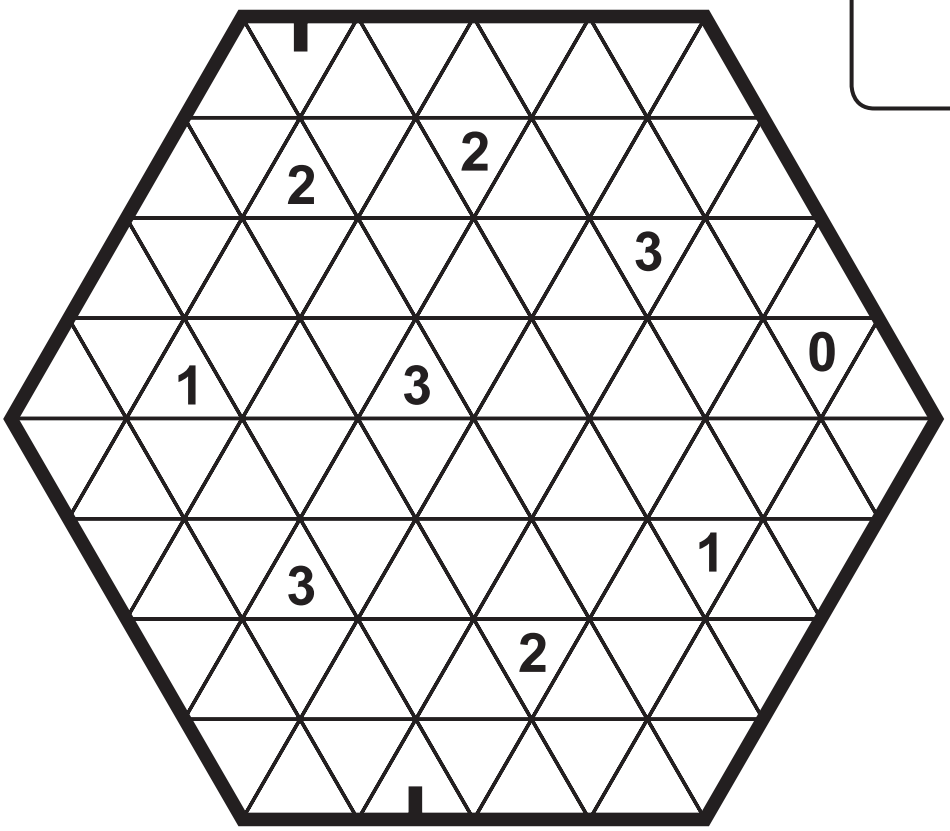
PART 5

PUZZLE 18

Draw a snake into the grid whose head and tail are given outside. Numbers in a triangle show the number of neighbouring triangles with the snake passing through. The snake consists of a series of edge-adjacent triangles, but it cannot pass through any triangle having a number.



25 points

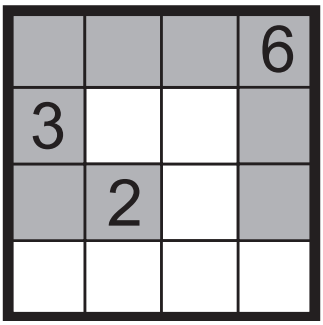


PART 5

PUZZLE 19

Cave

Select a connected set of squares - the cave - so that it contains all the numbers inside and each number reveals the number of cells that are visible from the given number's cell (which is included).



8			4			
				9		
	4				6	
		5				6
8				7		
			3			
		3				

15 points

		2					
	8			4			
		8			5		
8			8			5	
	11			6			8
		11			8		
			7			4	

30 points

6th World Sudoku Championship
6-10 November 2011

20th World Puzzle Championship
8-13 November 2011

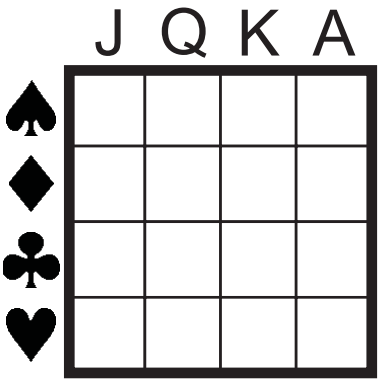
Eger, Hungary

Card Sequences

PART 5

PUZZLE 20

Place the given sixteen cards into the grid. Numbers outside the grid indicate the largest continuous block having a common suit/value, as indicated outside. E.g. for the bottom row, the clues on the left indicate that the longest sequence of clubs is only one in that row but there are three consecutive Jacks, while the clues on the right indicate the longes diamond sequence is a single card and that there are no Kings in that row.



	♠	0	2	1	1		
	A	1	0	3	0	♦	K
2	1					1	0
1	0					3	1
0	2					0	0
1	1					0	2
♣	J	2	0	2	0	♥	
		1	1	1	1	Q	

	♠	1	2	1	0		
	A	2	1	0	0	♦	K
0	0	A♠	A♥	Q♠	Q♥	0	0
1	0	A♦	K♦	Q♦	K♣	3	1
2	1	K♥	K♠	Q♣	J♣	0	2
1	3	A♣	J♠	J♦	J♥	1	0
♣	J	1	1	0	1	♥	
		0	0	3	1	Q	

80 points

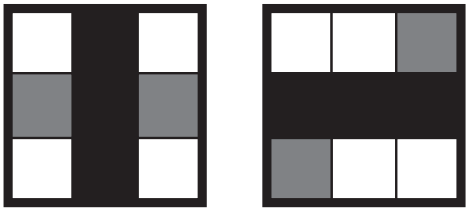
Double Pentomino

PART 5

PUZZLE 21

50 points

Place all pentominos into one of the two figures. Two cells of each pentomino are given. Numbers around the grids denote the pentomino parts in that row/column. Pentominos may be rotated and/or reflected but they cannot touch each other, not even diagonally.



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