NAME:	SCORE:
TOWN:	BONUS:

# Hungarian Selection for





20<sup>th</sup> World Puzzle Championship 8-13 November 2011

0 10 110101111101 201

# PART 4

### 17<sup>th</sup> September,

2011

13:15 - 13:50

(35 minutes)

Maximum score:

350 points

## Logidoku

Easy as ABC Sudoku 35

Tapa Sudoku 35

Sudoku Snake 50

Battleships Sudoku 50

Skyscrapers Sudoku 40

Japanese Numbers Sudoku 70

Sudokuro 70



**PUZZLE 1** 

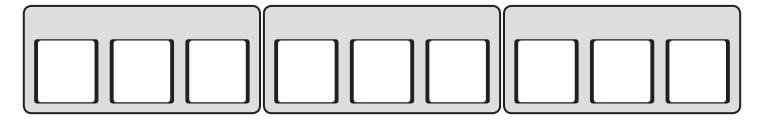
35
points

#### Easy as ABC Sudoku

Fill in the grid such that every row, column and region contains digits 1 through 6 and letters A, B, C. Letters outside the grid indicate the first letter in the row/column from that direction.

_		В				В	_
	Α	3	С	2	1	В	
В	2	В	1	Α	C	3	C
С	1	С	Α	3	В	2	В
В	3	2	В	1	Α	С	C
В	В	Α	3	С	2	1	C
	С	1	2	В	3	Α	
	С	Α			Α	A	•

	С					Α	_		Α	
									3	
	3					1		6		
В		6		2			5		1	Α
B C					6		Г	4	2	
	5						6			
		4	2							В
		1	6	5				3		
Α								1		
	4			6		2				В
							Α		С	•





**PUZZLE 2** 

35
points

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

#### Tapa Sudoku

Standard Sudoku rules apply. Additionally, painting all odd digits will result in a correctly filled Tapa puzzle. That is, the painted cells will form an edge-connected shape that may touch itself diagonally but cannot contain a 2x2 area. Cells not painted do not serve as clues from Tapa's perspective. The puzzle is considered solved if the Sudoku is solved, irrespective of colouring. (You need to paint digits 1-4 in the example puzzle)

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



**PUZZLE 3** 

# **50** points

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

#### Sudoku Snake

Standard Sudoku rules apply. Painting four cells from each region yields a snake, i.e. a stripe of edge connected cells that does not touch itself even diagonally. Additionally, each region, the cells covered by the snake are in increasing order from the snake's head towards its tail. The head and tail of the snake are given, but it is not specified which is which. The puzzle is considered solved if the Sudoku is solved, irrespective of colouring.

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



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

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

#### **Battleships Sudoku**

Standard Sudoku rules apply. Additionally, the fleet given separately can be placed onto the Sudoku grid, with the numbers on the ships matching. Ships can be rotated, it's the numbers that need to match. Cells in Sudoku with given digits cannot be covered by any ship. The puzzle is considered solved if the Sudoku is solved and the fleet is correctly placed.

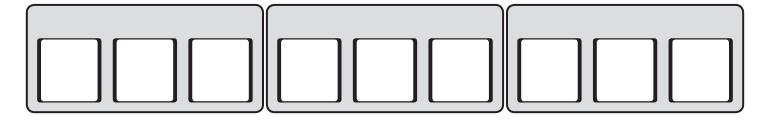
4	5	2	1
2	3	5	4
5	4	1	3
1	2	3	5
3	1	4	2
	5 1	2 3 5 4 1 2	2       3       5         5       4       1         1       2       3

3 4

1 3 4

3 4

**50** points





**PUZZLE 5** 

40 points

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

#### **Skyscrapers Sudoku**

Standard Sudoku rules apply. Digits also represent skyscrapers, denoting their height in floors. Numbers around the grid indicate the number of houses visible if looking inwards from that direction. Obviously, taller houses block smaller ones from being seen.

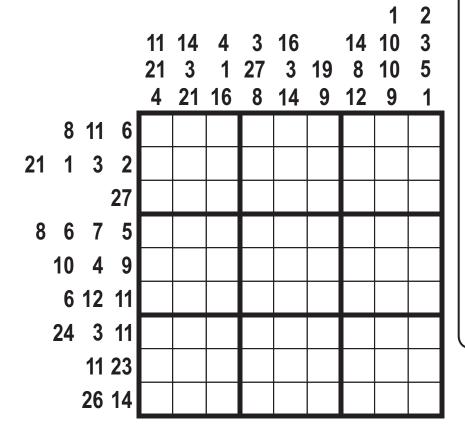
			1	2	3		_
	1	5	6	3	2	4	
	3	4	2	1	5	6	1
1	6	3	4	2		5	2
2	5	2	1	6	4	3	3
3	4	1	3	5	6	2	
	2	6	5	4	3	1	
		1	2	3		5	•

5



**PUZZLE 6** 

70 points



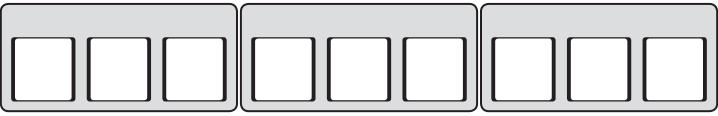
#### Japanese Numbers Sudoku

Firstly, solve a "Japanese Numbers" puzzle: fill in the grid with numbers 1-9 so that no digit repeats in any row/column. Numbers outside the grid correspond to continuous groups of cells containing digits. Each such number equals to the sum of one such group. Groups are separated by at least one empty cell.

E.g. "5 6 6" above column 2 indicates that there are three groups of numbers in that column: "5", "4 2" and "6", with an empty cell between each consecutive groups.

Secondly, fill in the cells still blank - standard Sudoku rules apply.

				5			2	
			5	6		3	5	10
			5	6	10	9	3	6
	6	6	1	5	6 2 3	3	2	4
4	3	6	4	3	2	1	5	6
		10				2	1	5
	3	7	5	2	1	6	4	3
3	9	2			4		6	2
	8	8	2	6	5	4	3	1





**PUZZLE 7** 

70 points

#### **Sudokuro**

Fill in the grid with digits 1 through 9 such that each row, column and region contains each digit once. Numbers in the black cells serves as (Kakurostyle) clues: the sum of the digits in the "words" across or down should equal to the clue.

