



11th 24Hours Puzzle Championship

PUZZLES BY: TAWAN SUNATHVANICHKUL

Instructions Booklet



11th 24 Hours Puzzle Championship

26-28th November 2010
Hotel Amadeus, Budapest
Hungary

PUZZLES BY:
TAWAN SUNATHVANICHKUL

- | | | |
|-----|------------------------|-------------------------|
| 1. | Twins | 55 points |
| 2. | Swedish Relay Sudoku | 60 points |
| 3. | Sigma Snake | 65 points |
| 4. | Minesweepers | 40 points |
| 5. | 4x4x4 Minesweepers | 50 points |
| 6. | Dissections | 35 points (15+20) |
| 7. | Mastermind Sudoku | 70 points |
| 8. | First Letter Scrabble | 65 points |
| 9. | Hashi | 35 points |
| 10. | Hashi with Big Islands | 80 points (30+50) |
| 11. | Spy Battleships | 65 points |
| 12. | Tents Reconstruction | 90 points (30+60) |
| 13. | KakurOH! | 80 points |
| 14. | MNO Puzzle | 70 points (15+15+20+20) |
| 15. | Overlapping Sudoku | 65 points |
| 16. | Voyage to Africa | 75 points (5x5 + 5x10) |

Total: 1000 points

PUZZLE IDEAS OBTAINED AS FOLLOWS:

Swedish Relay Sudoku	Tetsuya Nishio Cup
4x4x4 Minesweepers, Sigma Snake	Oguz Atay Puzzle Contest
Mastermind Sudoku	Indian Sudoku Mock Test
KakurOH!	US. Puzzle Championship
MNO Puzzle	Erich Friedman



11th 24Hours Puzzle Championship

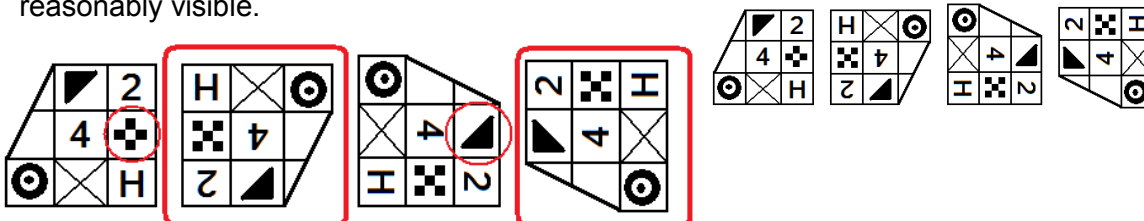
PUZZLES BY: TAWAN SUNATHVANICHKUL

Instructions Booklet

1. TWINS

55 POINTS

Ignoring their rotations, find the 2 pictures that forms a match. Differences are reasonably visible.



2. SWEDISH RELAY SUDOKU

60 POINTS

Classic sudoku rules apply. Transfer numbers in coded boxes to the other puzzle with the respective code.

	1	2	A
3		B	4
1	C		2
D	3	4	

5					6
	A			B	
	5	1	2	6	
		3	4		
	C			D	
		5	6		

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

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

3. SIGMA SNAKE

65 POINTS

Locate the snake of letters in the grid, which uses all number words exactly once, starting after another reading in one direction. Head and tail of the snake are given in the grey squares. Snake does not touch itself, not even diagonally, and they do not pass squares with numbers in them. The number represents the sum of the different number words that surrounds that square, including at a corner. Some letters are already given.

			11				
E							7
			23				E
	9	E		13			
E				14			
	3	T		E			
			15				4
		E					

1- ONE
2- TWO
3- THREE
4- FOUR
5- FIVE
6- SIX
7- SEVEN
8- EIGHT
9- NINE
10- TEN

R	H	T	11		I	S	N		
E		T			X		E	7	
E		H		23	N		V	E	
O		G	I		I			S	
N	9		E	E	N	13		R	
E						14		O	U
		3	W	T			E	F	
			O			15	V		4
			T	E	N	F	I		



11th 24Hours Puzzle Championship

PUZZLES BY: TAWAN SUNATHVANICHKUL

Instructions Booklet

4. MINESWEEPERS 40 POINTS

Locate the 30 hidden mines in the grid (5 in the example). Each number tells you the number of mines that surrounds the particular square. No mines are hidden on a numbered square.

2	2	1		1		1
*	*	1		1	*	1
2	2	2		3	2	1
0			*		*	1
0	0	1				1

5. 4x4x4 MINESWEEPERS 50 POINTS

Find 16 mines hidden throughout the 4 grids. The 16 mines will appear once in each co-ordinate boxes.

*	2	2	
		*	*
	3	*	5
0		*	*

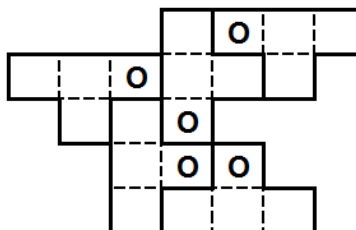
2	*	3	*
	*		1
1		1	
		0	

1	1		
*			0
	2		
*	1		

0		*	1
	3	3	
*	*		*
3	*	3	1

6. DISSECTIONS 35 POINTS

Dissect the given shapes into 5 identical pieces. The pieces can be rotated but not reflected. Each piece contains exactly one circle.



7. MASTERMIND SUDOKU

70 POINTS

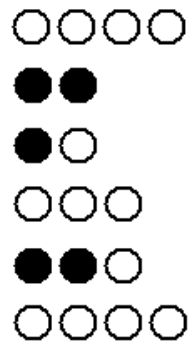
Standard sudoku rules apply. Additionally, there are shaded numbers in each rows forming an attempt of a mastermind solution given below. A black dot appears for each number in the solution that correctly matches the position of that number in the mastermind solution. A white dot appears for each correct number in the solution; but they are not correctly placed.

4					2
	3				
					6
				1	
	5				

2436 ●●●●

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

2436 ●●●●





11th 24Hours Puzzle Championship

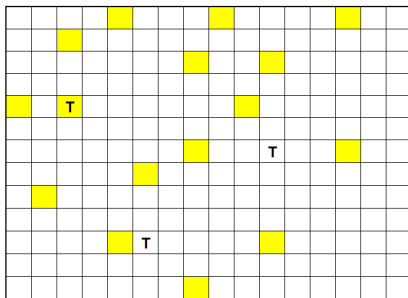
PUZZLES BY: TAWAN SUNATHVANICHKUL

Instructions Booklet

8. FIRST LETTER SCRABBLE

65 POINTS

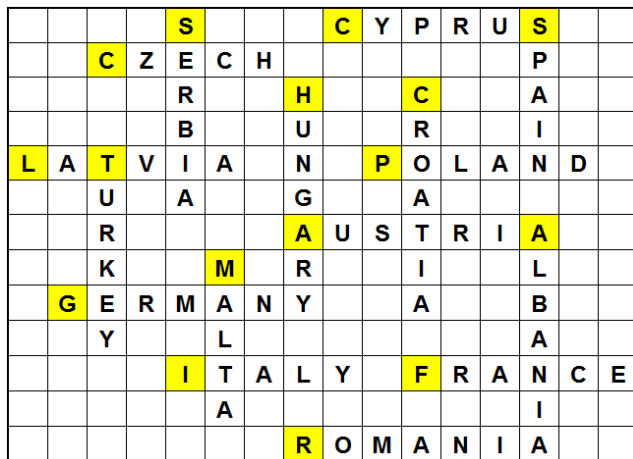
Fill all the given words into the grid criss-cross style with words reading left to right and top to bottom. No unlisted words may be formed and all words must link. All squares containing a first letter is shaded. All T's are given in the grid. Two words may start on the same shaded square.



5 Letters
CZECH
ITALY
MALTA
SPAIN

6 Letters
CYPRUS
FRANCE
LATVIA
POLAND
SERBIA
TURKEY

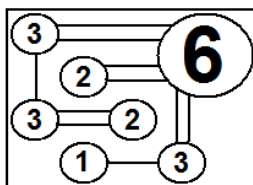
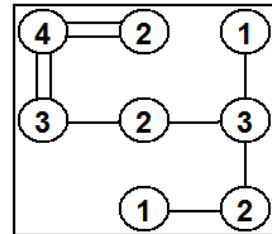
7 Letters
ALBANIA
AUSTRIA
CROATIA
GERMANY
HUNGARY
ROMANIA



9. HASHI

35 POINTS

The circles represent islands that must be joined to other islands by straight bridges. The number in the circles tell you how many bridges link from that island. A maximum of 2 bridges can be used for any same two islands and bridges do not pass over any islands. The bridges do not cross each other. All islands must interconnect at the end.



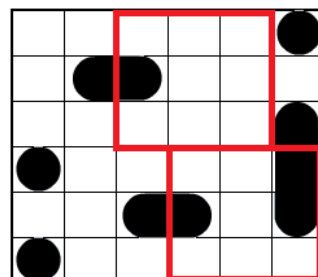
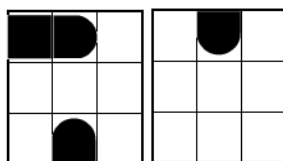
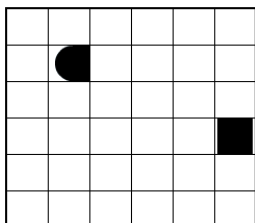
10. HASHI WITH BIG ISLANDS 80 POINTS

Standard Hashi rules apply; in this variation, some islands are bigger than the usual size.

11. SPY BATTLESHIPS

65 POINTS

Locate the fleet of battleships in the grid. No ships touch each other, not even diagonally. All you have is 4 satellite photos of the completed grid. Photos can be rotated but not reflected. Photos do not overlap. You don't have to show where each photos are.





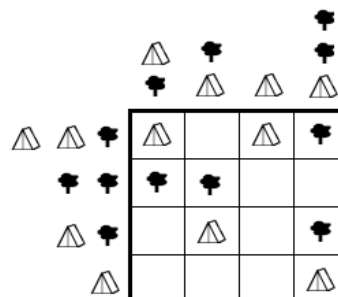
11th 24Hours Puzzle Championship

PUZZLES BY: TAWAN SUNATHVANICHKUL

Instructions Booklet

12. TENTS RECONSTRUCTION 90 POINTS

Enter some tents and trees into the grid. The outside shapes corresponds to the content of that row or column in the correct order. Each tent is connected to one tree, one tree belongs to only one tent. Tents do not touch each other, not even diagonally.



	16	30		23	3
17	9	8	4	3	1
14	7		5	2	
13			4		
	10	24	9	7	8
18			3		11
16	6		1	9	
9	4	5	3	1	2

13. KAKUROH! 80 POINTS

Standard Kakuro rules apply. Fill in numbers from 1-9, so that the sum in each consecutive rows and columns match their corresponding value. No numbers may repeat in the same sum. Some squares cover a bigger area.

	M			
			N	
				●

14. MNO PUZZLE 70 POINTS

Fill in the grid with letters and dots so that each row and column contains two dots and one letter: M means Midpoint, and will be exactly in the middle of two dots. N is Not the Midpoint, and will be in between two dots, but not the exact middle. O stands for Outside, and will be outside the two dots.

○	●		●	
●	M	●		
	●	●		○
●			N	●
		O	●	●

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

15. OVERLAPPING SUDOKU 65 POINTS

There are 2 standard sudokus that has been overlapped. Fill in the digits, 1-9 (1-6 in the example), so that each digit appears once in each row, column and 3x3 boxes for each sudoku.

16. VOYAGE TO AFRICA 65 POINTS

Only 10 of the listed words can be found. They can go in any straight direction. (Only one word is shown in the example).

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

- AFRICA
- AMERICA
- ASIA
- AUSTRALIA
- EUROPE

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