

VI POLISH SUDOKU CHAMPIONSHIP AND XV POLISH PUZZLE CHAMPIONSHIP

15TH MAY 2011 R.

QUALIFICATION ROUND

Important:

1. The answer sheet can be sent only once!
2. Factors determining ranking are: firstly sum of points, then time of submission.
3. Submission deadline is 15:00, Sunday 15th May 2011
4. You can submit your answers until 15:05, but you will be penalised 10 points for each minute of delay.

Answer sheet: <http://www.sfinks.org.pl/mp2011.php?action=formularz>

Registration form: <http://www.sfinks.org.pl/mp2011.php?action=rejestracja>

PUZZLES:

Sum: 375 p.

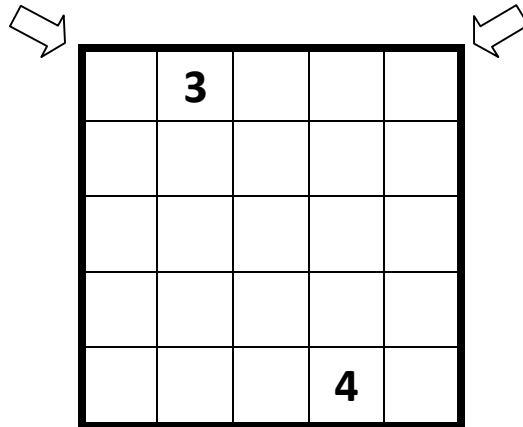
1) SUDOKU NONCONSECUTIVE	8 p.
2) SUDOKU CONSECUTIVE	12 p.
3) SUDOKU NEWS	24 p.
4) TOP HEAVY	20 p.
5) SUDOKU 8X8	12 P.
6) DIAGONAL SUDOKU	28 P.
7) EVEN-ODD SUDOKU	24 P.
8) PUZZLE SUDOKU	48 P..
9) PAINT BY NUMBERS	32 P.
10) MAGIC SUMMER	36 P.
11) HITORI.....	16 P.
12) CROSSWORD	3 P.
13) BATTLESHIPS	28 P.
14) PARQET	40 P.
15) SAPER EVEN-ODD	44 P.

Good luck ☺ - Organizing team

1. Nonconsecutive Sudoku – 8 points

Fill each cell with one of digits from 1 to 5. Every digit has to appear exactly once in each row and each column. Additionally, adjacent (horizontally or vertically) cells must not contain consecutive digits.

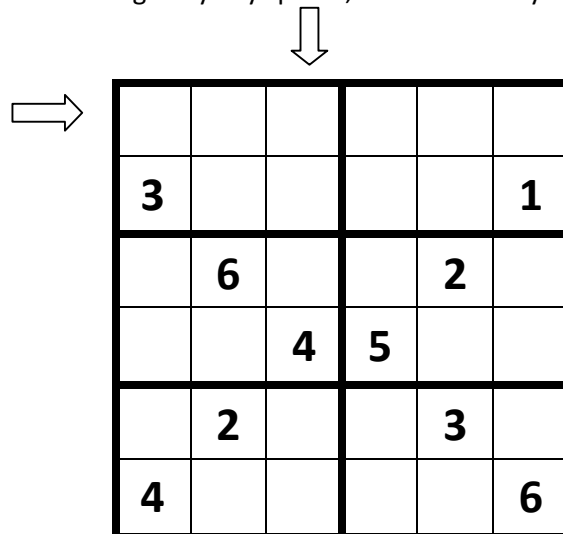
Answer key: Enter 10 digits: firstly from the diagonal from top-left to bottom-right, then from the diagonal from top-right to bottom-left. Do not separate the digits by any spaces, commas or any other signs.



2. Consecutive Sudoku – 12 points

Fill each cell with one of digits from 1 to 6. Every digit has to appear exactly once in each row and each column and the outlined 2x3 regions. Additionally, each cell must contain a digit that is consecutive to at least one of the digits from adjacent (horizontally or vertically) cells.

Answer key: Enter 12 digits: firstly from first row (left to right) and then from 3 column (top to bottom). Do not separate the digits by any spaces, commas or any other signs.



3. Sudoku NEWS (instructionless) – 24 points

Examine the example to find the rules of the puzzle and solve the grid.

Answer key: Enter 12 letters: firstly from the diagonal (top-left to bottom-right) and then from the diagonal (top-right to bottom-left). Do not separate the letters by any spaces, commas or any other signs.

Example:

W					
	A				
		R			
			S		
				A	
N					W

W	R	N	A	S	E
E	A	S	W	N	R
S	N	R	E	W	A
A	E	W	S	R	N
R	W	E	N	A	S
N	S	A	R	E	W

Grid:

					A
R					

6. Diagonal sudoku – 28 points

Fill each cell with one of digits from 1 to 9. Every digit has to appear exactly once in each row, column, two main diagonals and the outlined 3x3 regions.

Answer key: Enter 18 digits: firstly from 5th row (left to right) and then from 5th column (top to bottom). Do not separate the digits by any spaces, commas or any other signs.

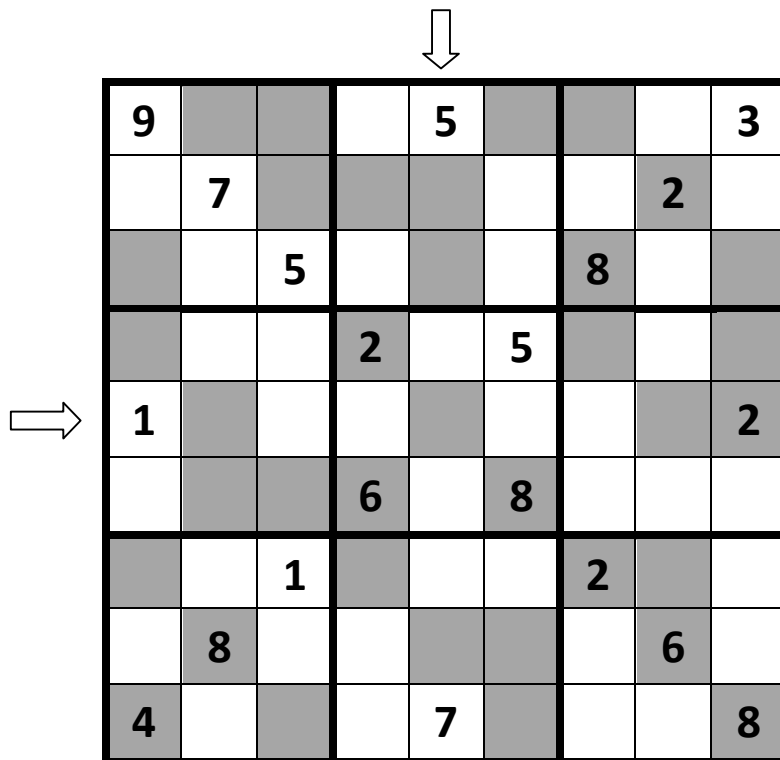
↓

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

7. Even-odd sudoku – 24 points

Fill each cell with one of digits from 1 to 9. Every digit has to appear exactly once in each row, column, and the outlined 3x3 regions. In each grey cell has to be an even digit and in every white cell has to be an odd digit.

Answer key: Enter 18 digits: firstly from 5th row (left to right) and then from 5th column (top to bottom). Do not separate the digits by any spaces, commas or any other signs.



8. Puzzle sudoku – 48 points

Place nine 3x3 boxes into the diagram (each one into one of the outlined 3x3 regions) without mirroring and rotating. Then fill each cell with one of digits from 1 to 9. Every digit has to appear exactly once in each row, column, and the outlined 3x3 regions.

Answer key: Enter 18 digits: firstly from 3rd row (left to right) and then from 7th row (left to right). Do not separate the digits by any spaces, commas or any other signs.

8	9	7
	4	

8	3	1
	6	

7	6	5
	8	

6	5	8
	3	

4	2	9
	7	

4	2	9
	3	

3	7	1
	4	

3	4	5
	1	

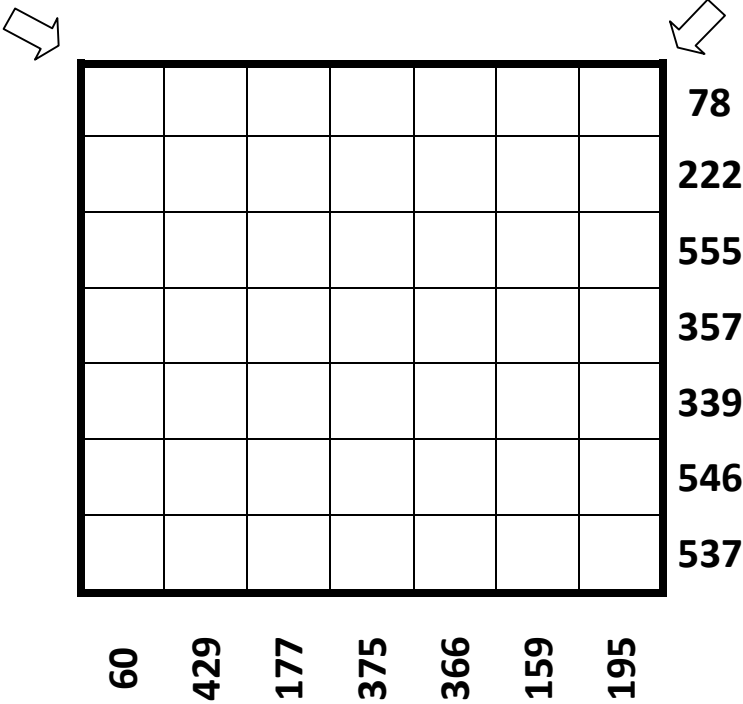
2	1	6
	5	

	4							8
→								
→								
	9							5

10. Magic summer – 36 points

Fill the diagram with digits from 1 to 5. Every digit has to appear exactly once in each row and each column. Numbers outside the grid represent the sum of all the numbers in corresponding row/column (read from top to bottom or left to right). These numbers have to be separated by at least one blank cell.

Answer key: Enter 14 digits: firstly from diagonal (top-left to bottom-right) and then from the second diagonal (top-right to bottom-right). Do not separate the digits by any spaces, commas or any other signs. Write 0 in place of blank cells.



11. Hitori – 16 points

Fill some of the cells in the diagram. Filled-in cells cannot be horizontally or vertically adjacent, although they can be diagonally adjacent. The remaining un-filled cells must form a single component connected horizontally and vertically. There cannot remain two un-filled cells with the same digit in a row or a column.

Answer key: Enter the sum of all filled-in cells that are not diagonally adjacent to any other filled-in cells.

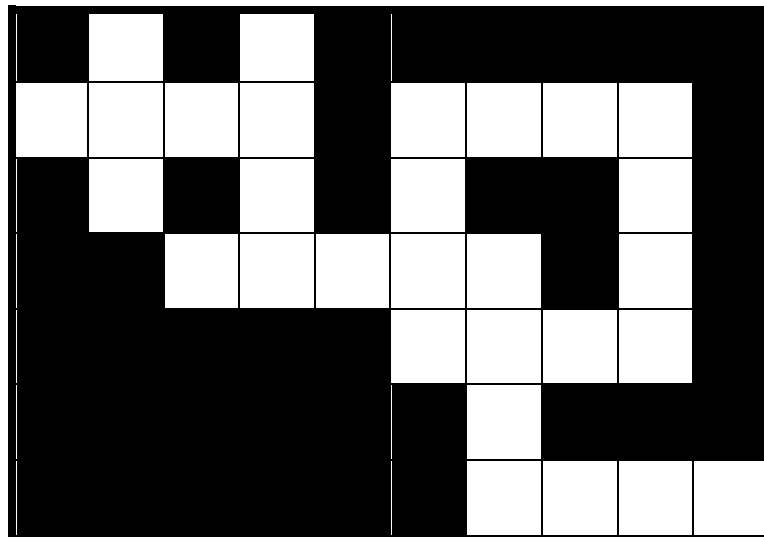
9	8	6	3	8	3	7	2	4
6	2	9	4	7	1	3	1	9
1	4	7	1	6	9	3	4	5
7	9	5	6	8	5	4	4	7
4	6	5	9	3	7	2	8	5
5	1	6	2	9	7	5	6	8
2	6	4	1	2	6	9	9	2
5	8	6	3	1	2	9	7	6
1	3	1	8	2	4	2	8	9

12. Crossword – 3 points

There are names of digits from 1 to 10 in ten different languages in the table below. Choose 10 names: 1 from each row and each column and fill the crossword with them (words are read from top to bottom, left to right).

Answer key: Enter (using letters) names of all vertically-written digits (from left column to right). Do not separate the digits by any spaces, commas or any other signs.

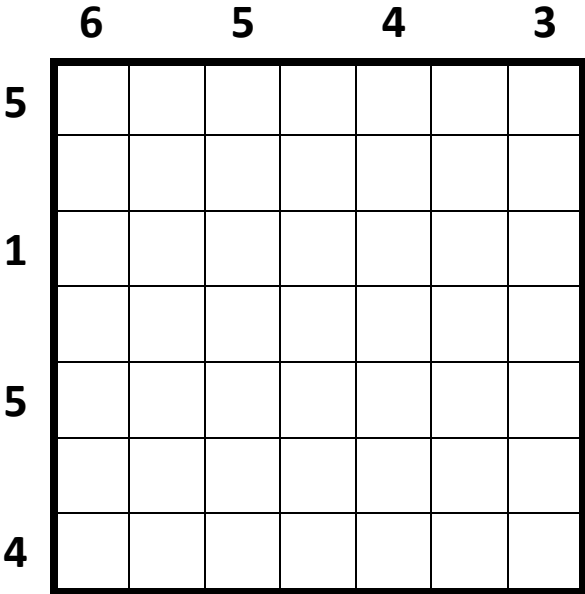
ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	NINE	TEN
UN	DEUX	TROIS	QUATRE	CINQ	SIX	SEPT	HUIT	NEUF	DIX
EINS	ZWEI	DREI	VIER	FUNF	SECHS	SIEBEN	ACHT	NEUN	ZEHN
EGY	KETTO	HAROM	NEGY	OT	HAT	HET	NYOLC	KILENC	TIZ
MOJA	MBILI	TATU	NNE	TANO	SITA	SABA	NANE	TISA	KUMI
UM	DOIS	TRES	QUATRO	CINCO	SEIS	SETE	OITO	NOVE	DEZ
SATU	DUA	TIGA	EMPAT	LIMA	ENAM	TUJUH	DELAPAN	SEMBILAN	SEPULUH
UNO	DOS	TRES	CUATRO	CINCO	SEIS	SIETE	OCHO	NUEVE	DIEZ
EEN	TWEE	DRIE	VIER	VIJF	ZES	ZEVEN	ACHT	NEGEN	TIEN
EN	TO	TRE	FIRE	FEM	SEKS	SYV	OTTE	NI	TI



13. Battleships – 28 points

Locate the 10-ship fleet (with one 4-unit battleship, two 3-unit cruisers, three 2-unit destroyers, and four 1-unit battleships) in the diagram. The ships may not touch each other, not even diagonally. The numbers outside the grid indicate the number of ship segments in the corresponding row or column.

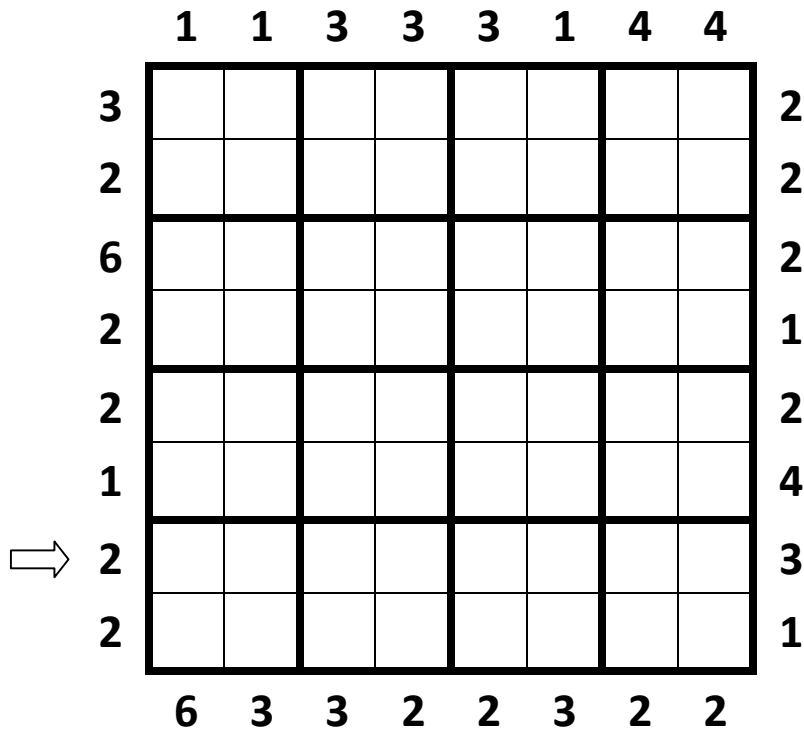
Answer key: Enter the numbers of all these rows, where there is at least one part of ship made of 2 parts.



14. Parquet – 40 points

Blacken some cells so that each outlined 2x2 square contains different combination of black and white cells. Numbers on the left and above the diagram indicate how long is the longest series of blackened cell in corresponding row/column, the numbers on the right and below the diagram indicate the length of the longest series of white cells in corresponding row/column.

Answer key: Enter 8 digits (0 or 1), corresponding to 7th row. For each blackened cell- write 1, for each not-blackened cell- write 0. Enter the digits from left to right, do not separate them by any spaces, commas or any other signs.



15. Saper even-odd – 44 points

Place some mines in free cells, no more than one per cell, so that each number shows the quantity of mines in the surrounding eight cells. Grey cells contain even numbers, white cells contain odd numbers. Mines can be placed only in grey cells. 0 is an even number. The cells with mines contained numbers as well.

Answer key: Enter the number of mines in each row (from top to bottom). Do not separate the digits by any spaces, commas or any other signs.

