

Name

Country

Points



# 16th 24 Hours Puzzle Championship

April 22-24, 2016  
Hotel Amadeus  
Budapest

Puzzles by Robert Vollmert

Sudoku	50 points	(5+10+15+20)
Kropki	180 points	(15+35+45+85)
Persistence of Memory	135 points	(15+35+40+45)
Japanese Sums	200 points	(35+40+50+75)
Checkered Fillomino	215 points	(30+45+60+80)
ABCTje	220 points	(30+60+45+85)
<b>Total</b>	<b>1000 points</b>	

Thanks to Maria Angeloudi, Agnieszka Buczma, Bram De Laat, Vasso Kalaitzidou, Alex Massarwa, David McNeill, Nils Miehe and Christoph Seeliger for testing the puzzles.

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**Sudoku** Fill the cells with numbers from 1 to  $n$ , where  $n$  is the size of the grid, such that each row, each column and each area contains each number exactly once.

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

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

10

5

5				3	
					2
		4	6		
		3	1		
2					
	6				4

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

15

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

20

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

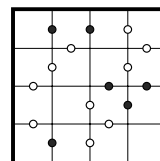
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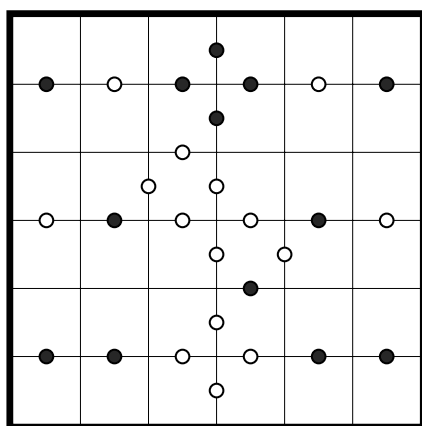
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**Kropki** Fill the cells with numbers from 1 to  $n$ , where  $n$  is the size of the grid, such that each row and column contains each number exactly once. If an edge between cells is marked with a white dot, the difference of the two adjacent numbers is 1. If it is marked with a black dot, one number is double the other number. If there is no mark, neither of these conditions apply.

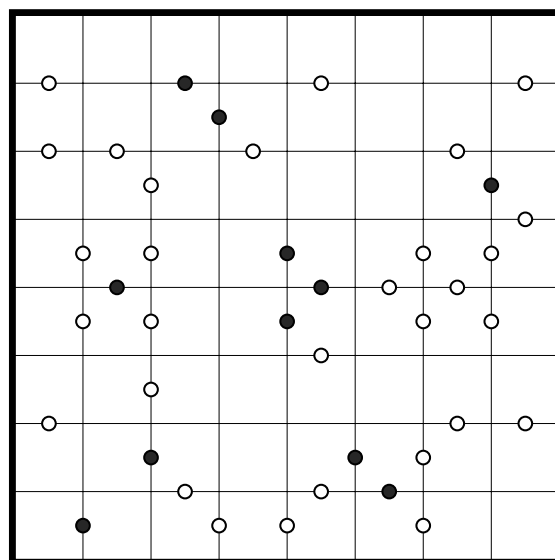


1	2	4	3
4	3	1	2
3	1	2	4
2	4	3	1

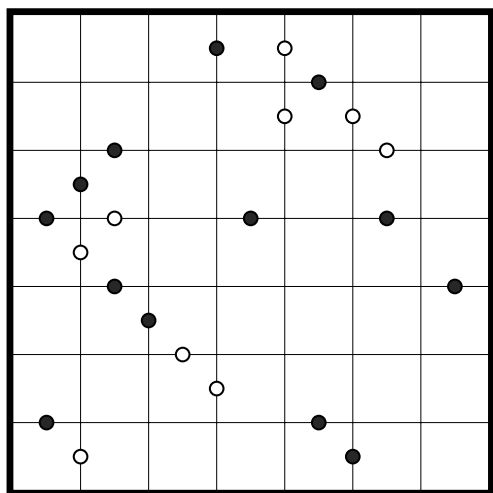
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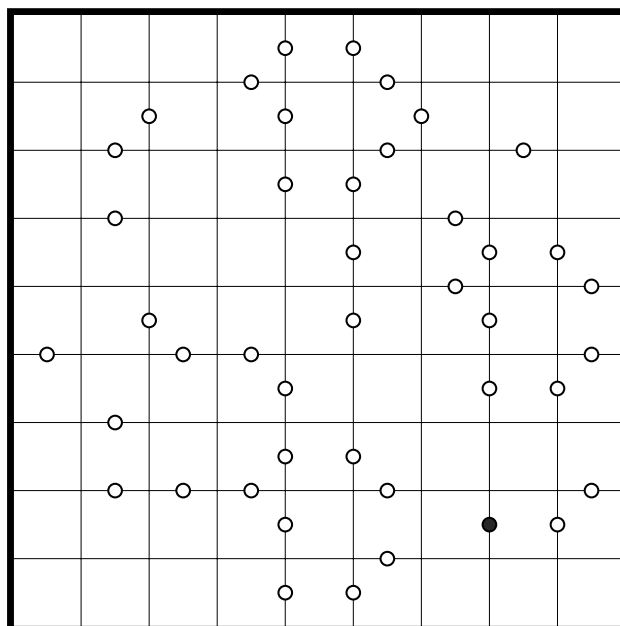
35



45



85



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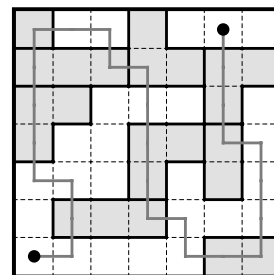
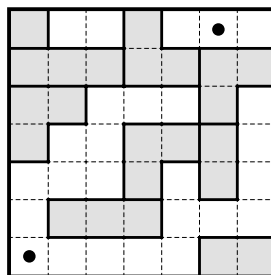
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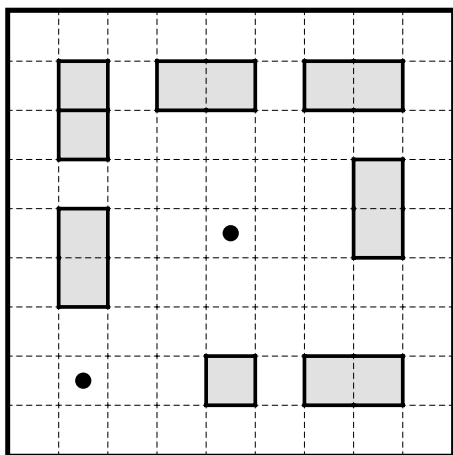
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**Persistence of Memory** Connect the two black dots by a path which travels horizontally and vertically between cell centres. The path may not touch itself, even at a point, considered as a path of full cells. (The path is “snake-like”.)

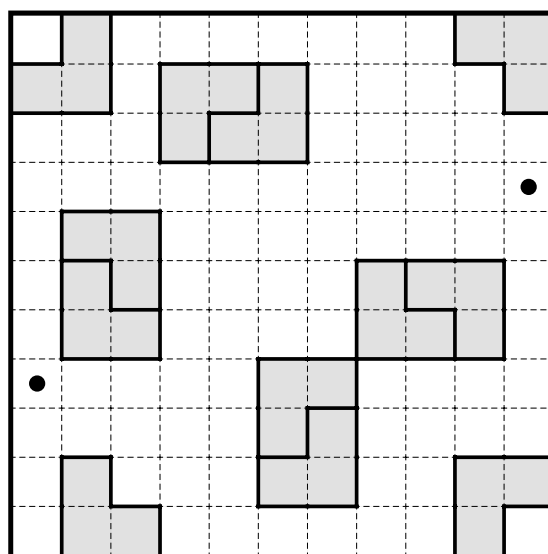
The grid contains some shaded areas, each of which must be visited by the path. Whenever two areas are the same up to translation (but not rotation), the path must be exactly the same within both copies.



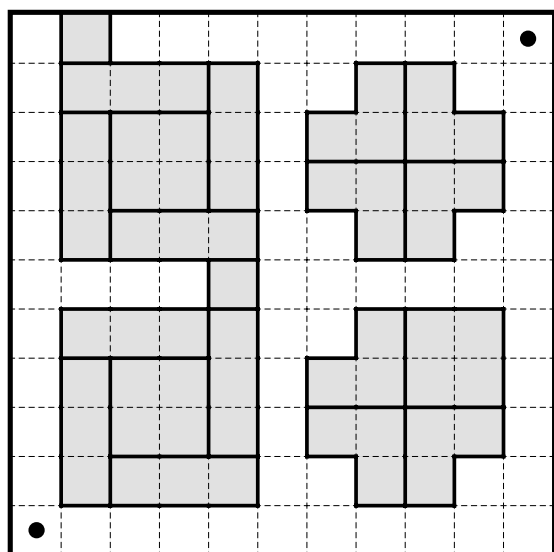
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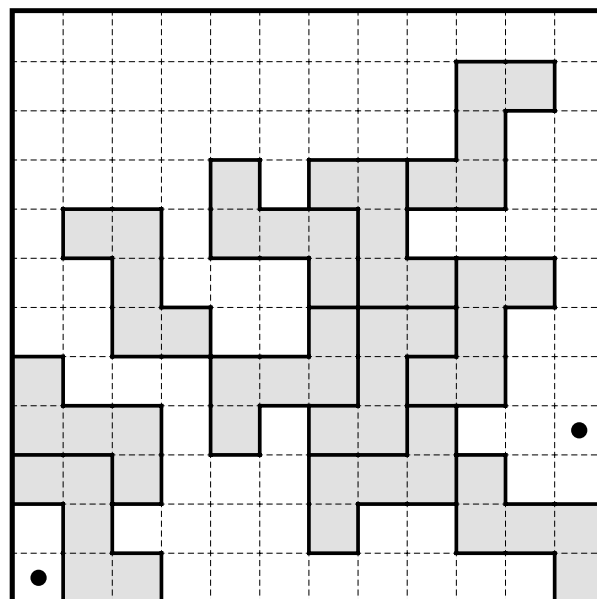
35



40



45



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**Japanese Sums** Shade some cells, and fill the remaining cells with numbers from the given range, such that no number occurs more than once in any row or column. The clues outside the grid indicate the sums of connected blocks of unshaded cells, in the correct order. This includes single digits. Unclued rows and columns are unrestricted.

1-3

1	3
2	3 3

3 1  
3 3

1	3
2	3 3

3 1  
3 3

4 35

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

1-8

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

5	5	5	40				
5	8	7	5	5	3	5	
5	2	8	5	5	5	4	5

1-5

5	3	4
10		
5	5	
10		
10	5	
3	5	3
4	5	2

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1-7      18 3      3      9 13    50  
          7 24 26 20 24 12 9

14	13							
5	19							
13	10							
24	1							
	22							
	21							
12	14							

          9            8 7 5 2 9    75  
1-9      4 23 12 8 7 5 12 9  
          3 9 24 8 7 5 20 9

7	6	4							
12	12	12							

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**Checked Fillomino** Split the grid into areas and place a number in each cell. The numbers within an area must all be equal, equal to the size of the area. Areas of equal size must not touch by edge, but may touch diagonally. Different given numbers may be part of the same area. There may be areas that don't contain any given numbers. Their size may be larger than any given number.

3	1		
		2	4

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

In addition, it must be possible to shade some areas fully, such that two shaded areas or two unshaded areas never touch along an edge.

45

30

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

	2	5	2	5	3	5	2	
2								7
	6	3	2	5	4	6	2	

80

60

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

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

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**ABctje** For each letter, find a number from the given set, such that different letters correspond to different numbers. Some words are given together with the sum of the values of their letters.

Filling one of the two grids is sufficient.

1-6

BEISPIEL 24  
LIBELLE 25  
EIS 8

B	
E	
I	
L	
P	
S	

1	
2	
3	
4	
5	
6	

B	3
E	1
I	2
L	6
P	4
S	5

1	E
2	I
3	B
4	P
5	S
6	L

30

1-11

EGY 15  
EINS 19  
JEDEN 23  
NJE 13  
ONE 14  
UN 17  
UNO 22  
YI 11  
YKSI 20

D	
E	
G	
I	
J	
K	
N	
O	
S	
U	
Y	

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	



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60

1-12

DEUX 20  
DOS 23  
DUA 28  
IKI 9  
TWO 27  
ZWEI 14

A		1	
D		2	
E		3	
I		4	
K		5	
O		6	
S		7	
T		8	
U		9	
W		10	
X		11	
Z		12	

45

1-11

DREI 19  
HAROM 27  
TATLO 40  
THREE 15  
TROIS 41

A		1	
D		2	
E		3	
H		4	
I		5	
L		6	
M		7	
O		8	
R		9	
S		10	
T		11	

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85

1-26

BON	34
CUATRO	84
CZTERY	102
DORT	58
EHA	40
EMPAT	66
FIRE	65
FOUR	58
FYRA	53
INE	49
KVAR	57
LIM	39
LOS	32
NEGY	59
NELI	74
NELJA	106
OTXI	42
QUAR	60
QUATRE	98
QUATTRO	97
SI	6
VIER	54
WISK	29
YO	4

A	1
B	2
C	3
D	4
E	5
F	6
G	7
H	8
I	9
J	10
K	11
L	12
M	13
N	14
O	15
P	16
Q	17
R	18
S	19
T	20
U	21
V	22
W	23
X	24
Y	25
Z	26