

NAME:

POINTS:



# 11<sup>TH</sup> 24 HOURS PUZZLE CHAMPIONSHIP

26-28 NOVEMBER , 2010

HOTEL AMADEUS

BUDAPEST

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PUZZLES BY

**HASAN YURTOGLU**

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|-----|--------------------|--------------------|
| 1.  | 2010 DOMINO CASTLE | 100 Points         |
| 2.  | AKKARA             | 50 Points          |
| 3.  | AKKARA LOOP        | 50 Points          |
| 4.  | TAPAKKARA          | 100 Points         |
| 5.  | ANTALYA            | 90 Points (40+50)  |
| 6.  | CIRCLE DIVISION    | 90 Points (40+50)  |
| 7.  | DOUBLE FENCES      | 70 Points (30+40)  |
| 8.  | FUTOHAS            | 70 Points (30+40)  |
| 9.  | GOLDS AND DIAMONDS | 70 Points (30+40)  |
| 10. | HEDEF              | 70 Points (30+40)  |
| 11. | OPTRAIN            | 50 Points (20+30)  |
| 12. | OPTREE             | 80 Points (30+50)  |
| 13. | TETRA LOVER SNAKE  | 110 Points (50+60) |



**1. 2010 DOMINO CASTLE (100 Points)**

Put the given set of dominoes in 2010 figure. Half dominoes sharing edge have to contain same numbers. Numbers around the figure show numbers used at that row or column without order.

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

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

**2. AKKARA (50 Points)**

Paint some cells such that; numbers which are painted show how many non-painted neighbour cells including diagonals and also numbers which are non-painted show how many painted neighbour cells including diagonals. Some painted cells may be given.

	2			
	6	4		2
	3		7	1
		6		2
	4		2	

	2			
	6	4		2
	3		7	1
		6		2
	4		2	

**3. AKKARA LOOP (50 Points)**

Paint some cells to form a single closed loop not touching itself from diagonals. Numbers which are painted show how many non-painted neighbour cells including diagonals and also numbers which are non-painted show how many painted neighbour cells including diagonals.

3				1
2				2
	1		4	

3				1
2				2
	1		4	

**4. TAPAKKARA (100 Points)**

Paint some squares to create a continuous wall. Number/s in painted cells indicate the length of non-painted blocks on its neighbouring cells. If there is more than one number in painted cells, there must be at least one painted cell between the non-painted cell blocks. Number/s in non-painted cells indicate the length of painted blocks on its neighbouring cells. If there is more than one number in non-painted cells, there must be at least one non-painted cell between the painted cell blocks. Painted cells cannot form a 2x2 square or larger. Wall segments can be on cells containing numbers. A segment of the wall is given.

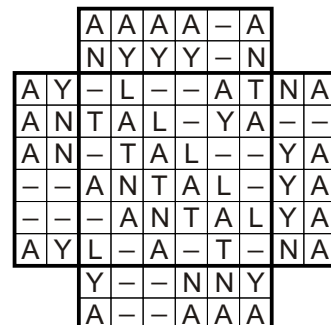
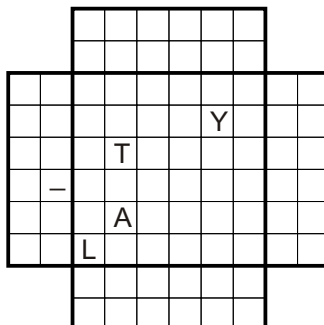
	2			3
	1 1		2	3
		3	3	
2				1 1
		1	2	

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



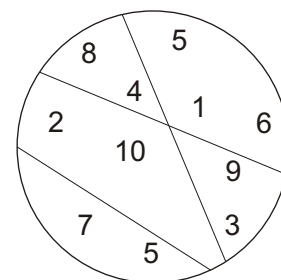
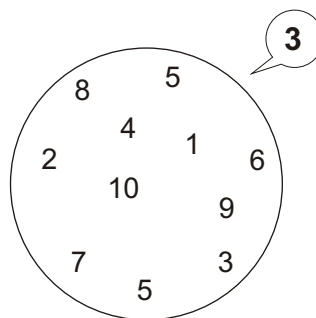
**5. ANTALYA (40+50 Points)**

ANTALYA name must be read in every row and column forward or backward.



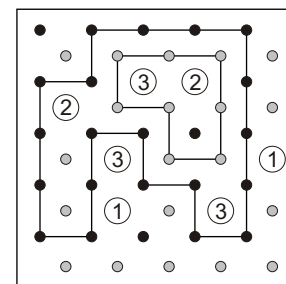
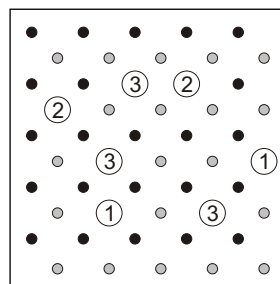
**6. CIRCLE DIVISION (40+50 Points)**

Draw given number of different line segments beginning from a point on circle and ending on circle on different point such that the sum of numbers in the formed regions will be same.



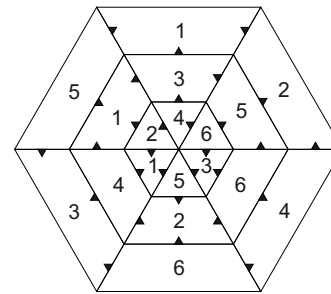
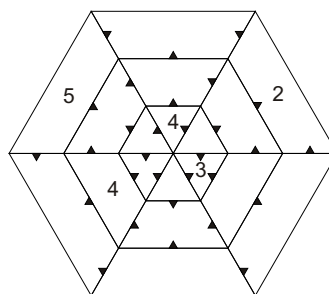
**7. DOUBLE FENCES (30+40 Points)**

Draw two closed loops, one is connected with black dots, other is connected with gray dots vertically and horizontally. The number of loop segments around numbers are given. Loops cannot cross itself or other loop.



**8. FUTOHAS (30+40 Points)**

Put numbers 1 to 6, each once, in the same areas and both 3 areas across. Inequality of numbers in the areas are shown.





**9. GOLDS AND DIAMONDS (30+40 Points)**

Find given number of golds and diamonds. Numbers seen correctly show how many golds in the neighbour cells including diagonals. Numbers seen mirrored show how many diamonds in the neighbour cells including diagonals. There is no golds or diamonds in cells having numbers. No golds are touching any diamonds. G represents golds, D represents diamonds.

9 Golds, 6 Diamonds

↑		1			
				ε	
	Σ				
		3			2
			↑		
2					

↑		1		D	D
D		G		ε	D
D	Σ	G	G		
		3	G	G	2
G			↑		G
2	G		D		G

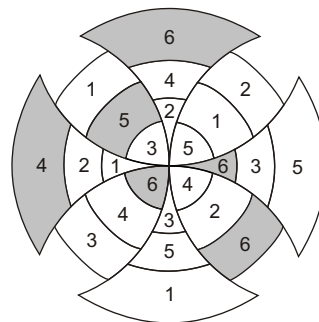
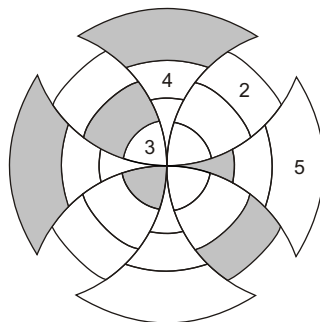
**10. HEDEF (30+40 Points)**

Put the numbers 1 to 6, each once, in every opposing 3 areas meeting center.

If a number inside an area is maximum of all other numbers of neighbour areas sharing sides, that area is shaded.

No two neighbour areas sharing sides have same numbers.

No two areas having exact shapes have same numbers.





**11. OPTRAIN (20+30 Points)**

Order given wagons correctly to form an equality. Write wagons letters in correct order left to right.

A                      B                      C                      D

9 x

3 7

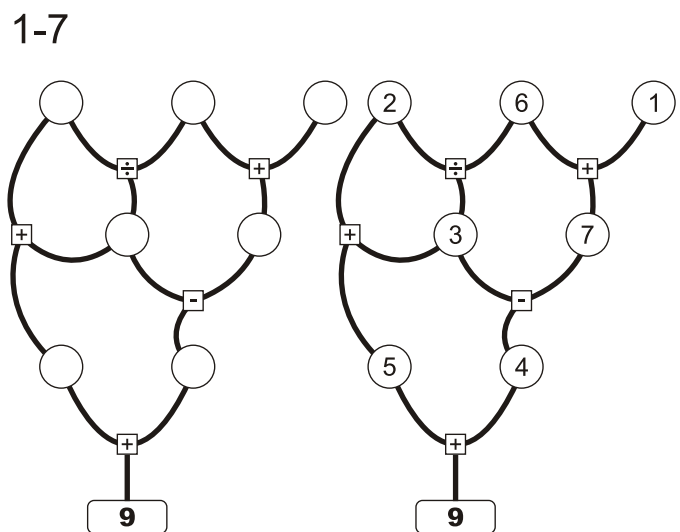
5 -

8 =

D A C B
( 8 = 9 x 5 - 3 7 )

**12. OPTREE (30+50 Points)**

Use given numbers in the circles each once so that upper circles connected to a sign form a correct result into the next circle below.



**13. TETRA LOVER SNAKE (50+60 Points)**

Tetra lover snake is loving to make tetromino spaces while touching their body diagonally. Head and tail which are black and some body parts are given. Find all tetralover snake body. All 5 tetromino spaces must be made once and tetromino spaces could be rotated and/or reflected. There will be no other space made by snake and snake body cannot touch from sides. Tetromino pieces shown below.