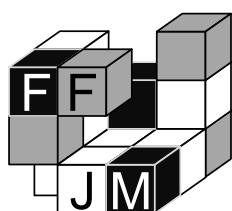


Part III

Name

WPC French Qualification 2004

Easy as ABC Varia	5 points
Hens and Chicks	5 points
Triples	10 points
Black Out	10 points
Penta Loop	15 points
Adjacent products	15 points
L-shapes	20 points
Penta Placement	20 points
Inside-Outside Loop	25 points
Disquare	25 points
Skyscrapers Varia	25 points
Magic Square Varia	25 points

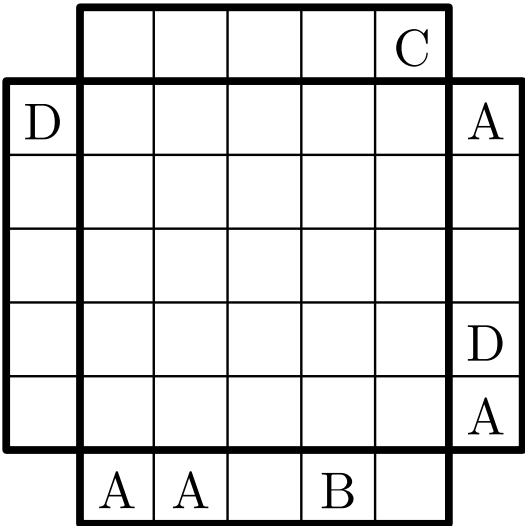


Part
III

1. Easy as ABCD Varia

5 points

Fill in the letters A , B , C , and D in the diagram. Each letter occurs once in each row and column. The letters outside the diagram indicate the *second* letter you come across from that direction.



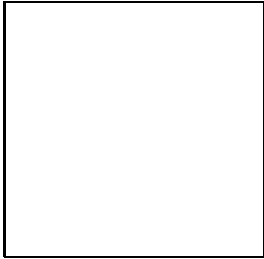
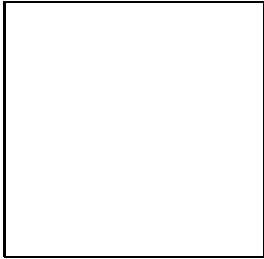
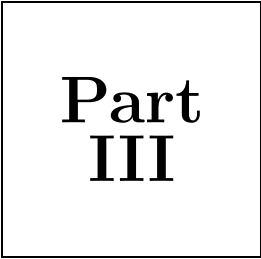
Part III

2. Hens and Chicks

5 points

Each hen (grey squares) has to watch after as many chicks (dotted squares) as its value. Each hen builds a path starting from itself that makes a 90-degree turn on each chick and goes straight to the next chick until it has seen all its chicks. The paths of two hens never intersect and all squares of the grid are seen by a hen.

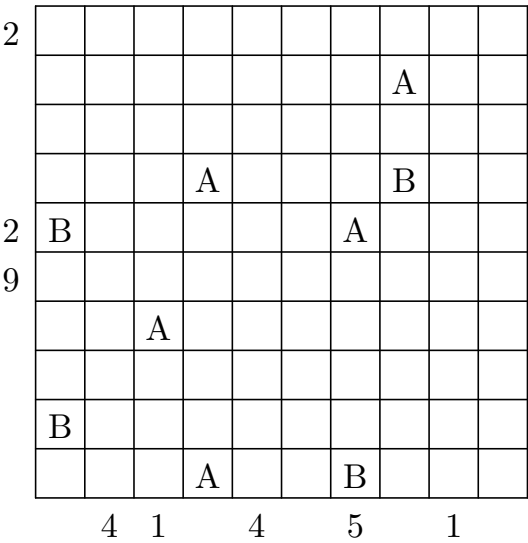
.	.		.	.	5	.	.
.		.			.	.	
7	.	.	.	.		.	.
.	.	.	11	.	.	.	.
.	.	.	.	12	.		.
	.		.	.		.	6
.	
.	.	4	.		.	.	.

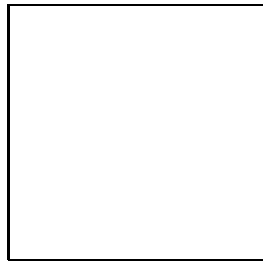
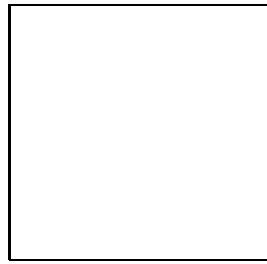
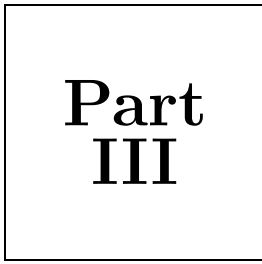


3. Triples

10 points

Enter the letters A and B as lines of three consecutive squares (horizontally, vertically, or diagonally) consisting of the same letter (A-A-A or B-B-B) so that the digits outside the grid indicate the total number of cells occupied by letters in that row or column. Two lines with same letters do not touch each other, even diagonally. There are six lines containing As, and six lines containing Bs.

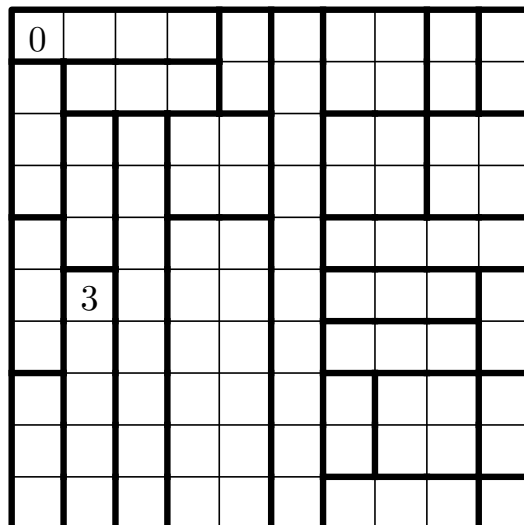




4. Black Out

10 points

Black some cells so that these black squares touch each other diagonally at the most and the remaining white squares form a single compact territory. The digits show the number of black cells in their region. A sequence of consecutive white cells in a straight horizontal or vertical line can pass through two different regions at the most. The cells containing digits can either be colored or remain white.

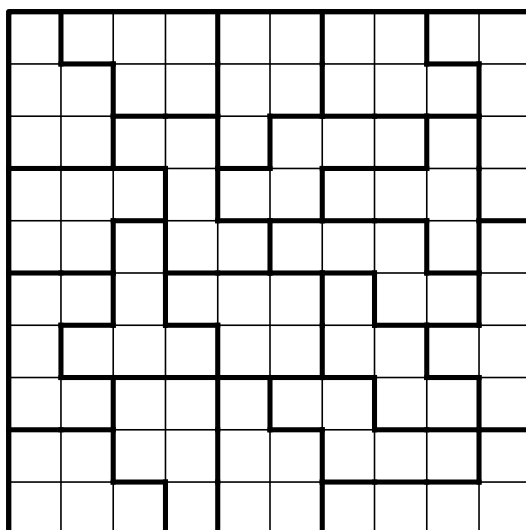


Part III

5. Penta Loop

15 points

Draw a single continuous loop that passes horizontally and vertically through every pentomino by exactly two cells, and that does not touch itself, even diagonally.

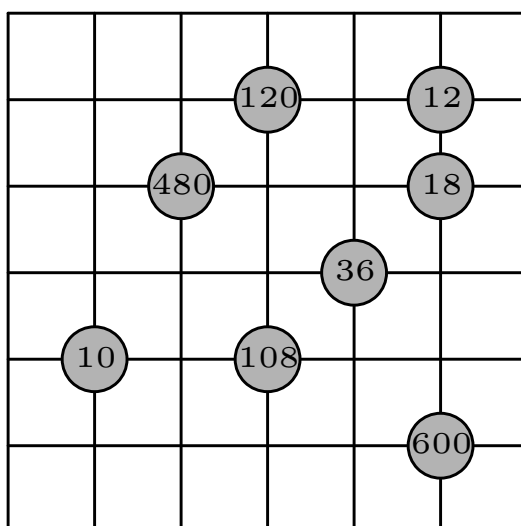


Part III

6. Adjacent Products

15 points

Fill in the numbers between 1 and 6. Each number appears exactly once in each row and column and the product of the four elements adjacent to a given circle is equal to this value.

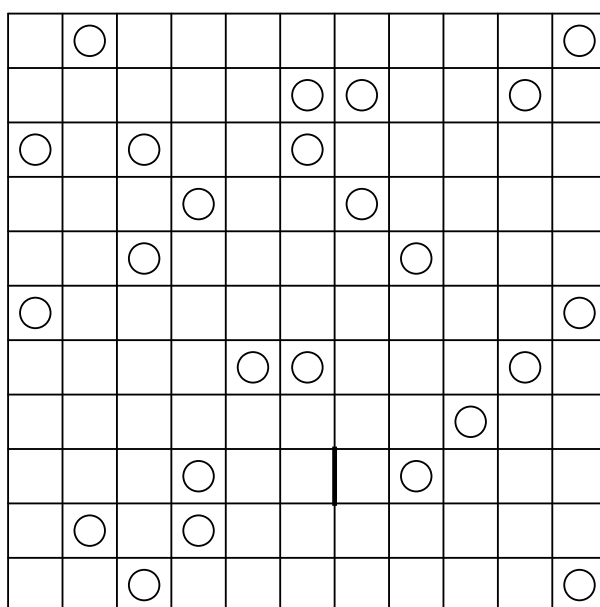


Part III

7. L-shapes

20 points

Divide the grid into L-shaped pieces, each of them containing one circle, placed exactly in the corner of the L-shape (intersection of the arms of the shape). Any pieces having at least one segment in common have different areas. The given line is part of the solution.

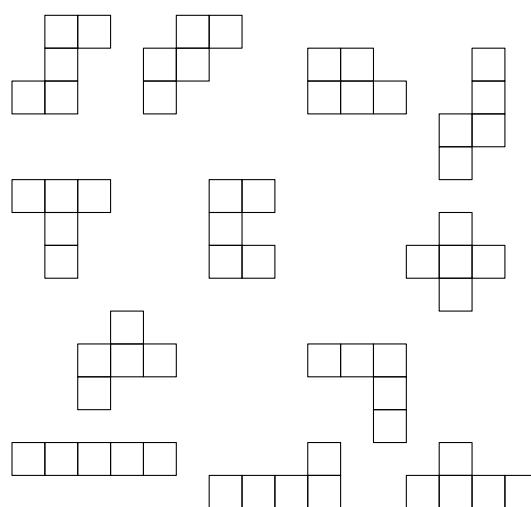
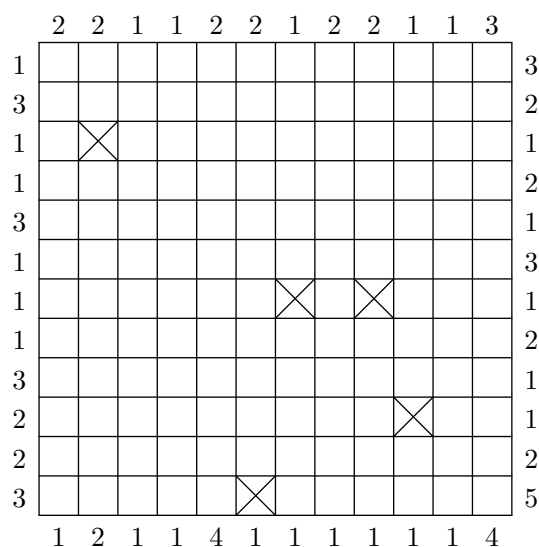


Part III

8. Penta Placement

20 points

Place all the given pentomino elements into the grid so that they do not touch each other, even diagonally, in a possible rotated or mirrored position. The numbers outside the grid show the length of the first pentomino-segment "seen" from that direction in the corresponding row or column. The pentominoes do not overlap the *X* signs.



Part III

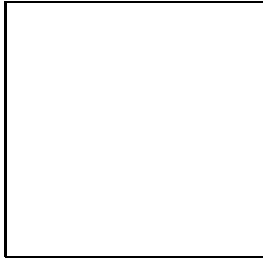
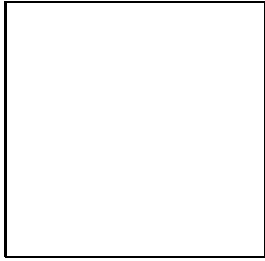
9. Inside-Outside Loop

25 points

Draw a single continuous loop of walls going horizontally and vertically along the grid-lines such that the digits show the total number of cells that are "seen" from that square (not counting the square itself) in that row and column inside, given that one cannot see over a wall.

	6				6	1	
2				2		4	
							0
					2		
		5		5			
3			1		3	1	
				4		1	
8					9		

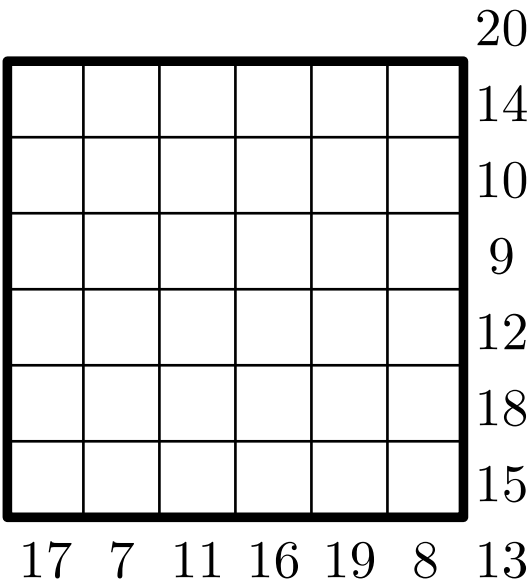
**Part
III**



10. Disquare

25 points

Place the numbers 1 to 12 into the grid. There must be exactly two numbers placed in each row, column, and main diagonal. The numbers outside the grid reveal the sum of the numbers in the corresponding row, column, or diagonal.

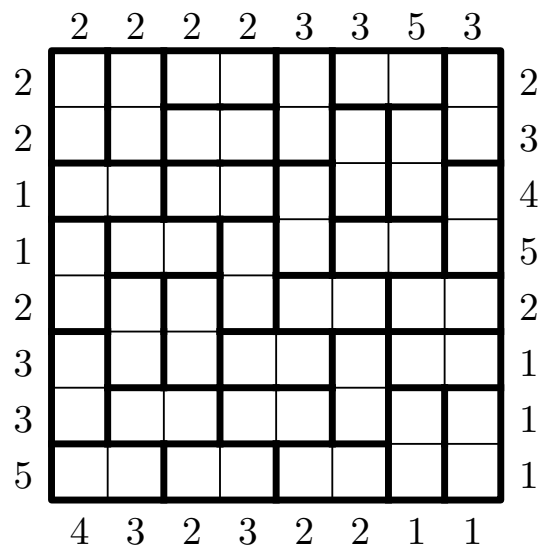


Part III

11. Skyscrapers Varia

25 points

There are 32 blocks of 2×1 cells, with heights between 1 and 8, each number appearing exactly four times. Knowing that the digits outside the grid show how many blocks are "visible" from that direction in that row or column and that there are no two equal numbers in any row or column, find the blocks and mark their heights with numbers from 1 to 8.



Part III

12. Magic Square Varia

25 points

Fill digits 1-9 into the grid in such a way that every digit appears once in each row, each column, and each black-edged 3x3 region. The double lines separate those adjacent cells whose values differ by 1.

						9		
				1				
4								
			9					
	3						7	
					4			
								1
				7				
		5						