Part I	Name

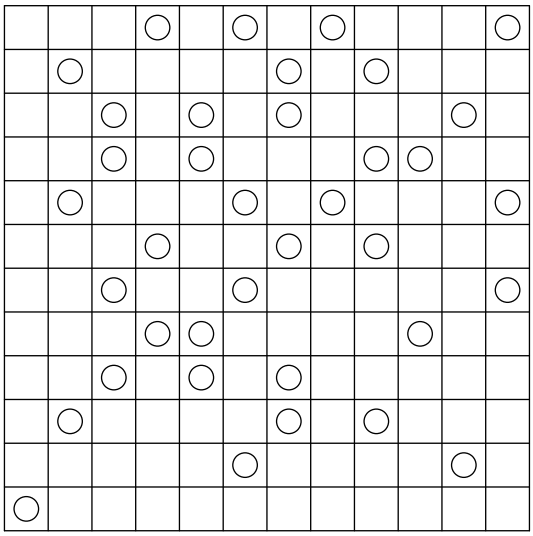
WPC French Pre-qualification 2007

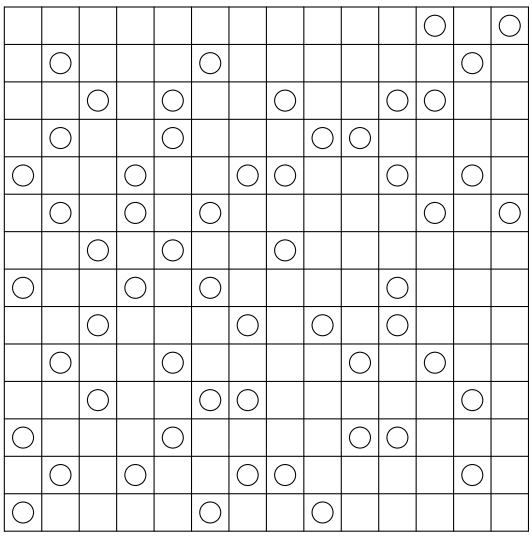
Alternate Corners	**35+65**	**points**
Battleships	**15+25**	**points**
Minesweeper	**25+35**	**points**
Domino Hunt	**50+70**	**points**
Skyscrapers	**20+70**	**points**
Museum	**40+50+50**	**points**
Rectangles	**10+20+20**	**points**
Square Routes	**30+50**	**points**
Tents	**40+55+60**	**points**
Sudoku	**65**	**points**

Part I

1. Alternate Corners 35+65 points

Draw a continuous loop in both grids in such a way that every second corner point should be in a square containing a circle. The loop crosses each square exactly once and must not intersect or overlap itself anywhere. The loop must turn when it passes through a square containing a circle.



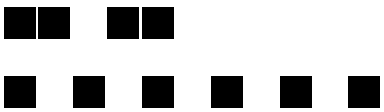


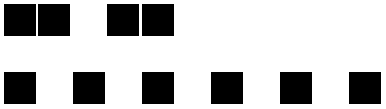
Part I		

2. Battleships 15+25 points

Each grid represents a part of the ocean in which a fleet of eight ships is hiding, which composition is given next to the grid. The ships may be oriented horizontally or vertically, and no two ships can occupy adjacent cells, not even diagonally. The digits indicate the number of cells in the corresponding rows and columns that are occupied by parts of ships.

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





	2	2	1	2	2	1
2	≈					
1	≈					
0						
3						
0						
4					≈	

Part I

3. Minesweeper 25+35 points

There are 24 mines in each diagram, at most one in a given square. The numbers inside the diagram indicate the number of mines that can be found on the squares immediately adjacent to that square (horizontally, vertically, or diagonally). Squares with a number do not contain mines.

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

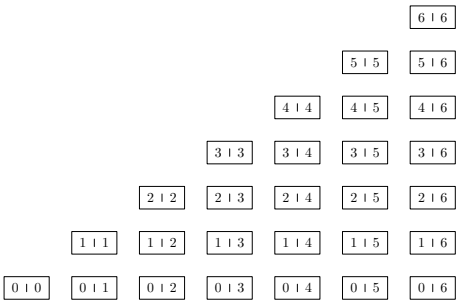
0		1					2
	3			2		4	
1							
1			7				
			2		1		0
2	3			2		1	

Part I		

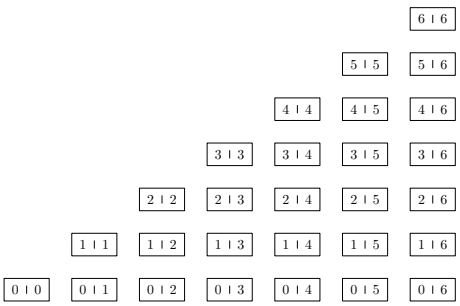
4. Domino Hunt 50+70 points

A complete domino set (28 dominos from 0-0 to 6-6) has been placed in both grids. The sides of the dominoes have been erased and the spots have been replaced by numbers. Draw the edges of the dominoes.

5	2	5	2	3	1	3	1
5	2	0	2	4	3	6	2
1	0	1	4	4	3	6	6
4	5	0	5	4	5	5	0
2	3	3	1	0	3	2	3
0	1	4	1	6	6	1	6
0	4	4	6	0	6	5	2



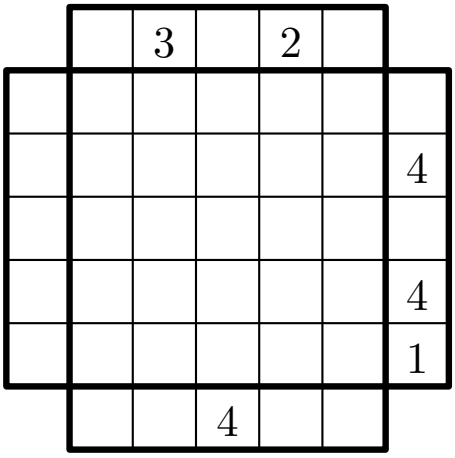
4	2	1	2	5	5	4	3
0	2	0	3	1	0	5	5
4	6	2	5	3	5	4	6
6	4	6	1	1	1	0	3
6	4	3	1	4	0	5	6
1	5	3	2	2	3	2	0
4	2	1	3	0	6	6	0

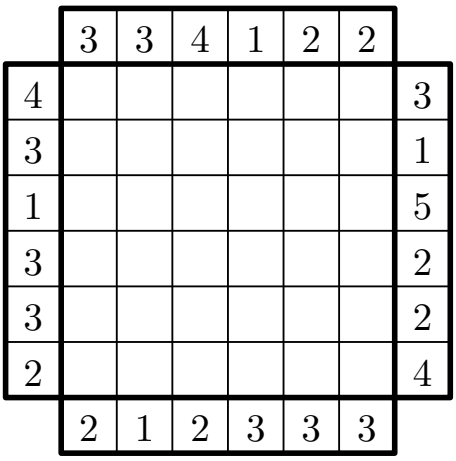


Part I		

5. Skyscrapers 20+70 points

Each grid symbolizes a group of skyscrapers. Each row and column contains skyscrapers of different heights (1-5) (1-6 in the second puzzle). The numbers outside the grid indicate how many skyscrapers are visible from that direction (a building located behind a taller one in the same row is completely hidden).

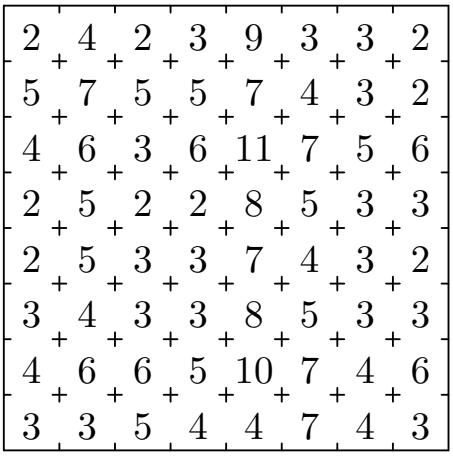


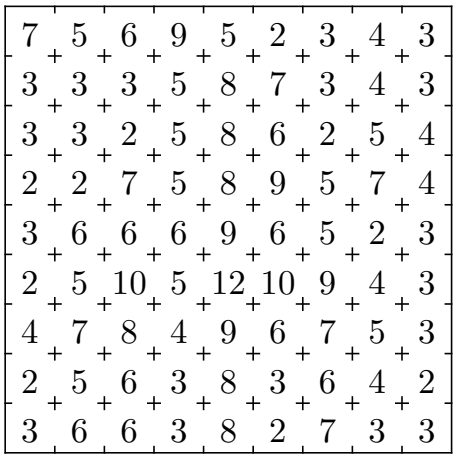


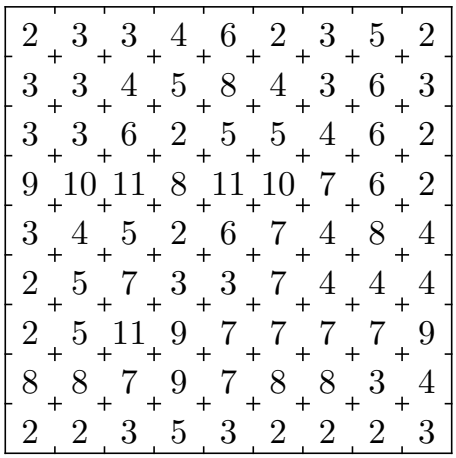
Part I

6. Museum 40+50+50 points

The floor indicated by a grid is divided in rooms, all interconnected by doors. Some doors are opened, the others are closed. Each room displays a number which indicates how many rooms (including itself) can be seen from it. Draw the closed doors.







Part I		

7. Rectangles 10+20+20 points

Divide the three grids into rectangles so that each rectangle contains exactly one number, and so that each number represents the number of squares of its corresponding rectangle.

2	10						
						6	
	9			4	2		
				3		6	
2					4		
10					6		

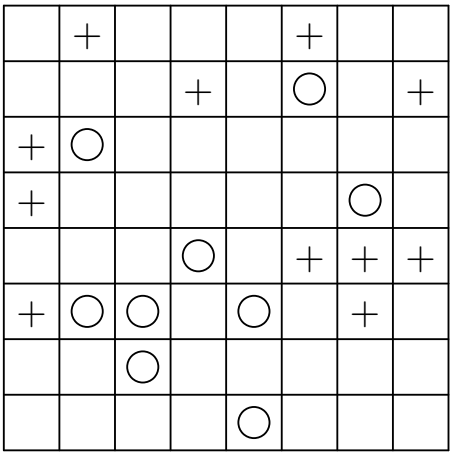
				4			
4		2				3	
			4				
8		4				2	
			2	10		2	8
	3						
		3	3			2	

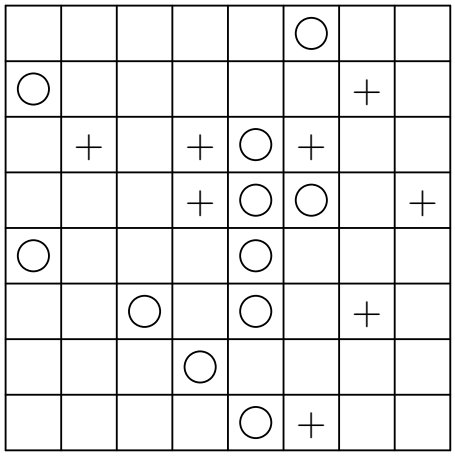
	2		2		3		
				3			
		6				10	
			6		8		
	10						
4			2		2		6

Part I

8. Square Routes 30+50 points

Draw a single closed loop in both grids, crossing each square exactly once. The loop runs either horizontally or vertically and must not intersect or overlap itself anywhere. The path must make a turn on the circles and make a straight line on the crosses.





Part I

9. Tents 40+55+60 points

Locate the tents in the three grids. Each tree (symbolized by T in the diagram) is connected to exactly one tent, found in a horizontally or vertically adjacent square. Tents do not touch each other, not even diagonally. The numbers outside the grid reveal the total number of tents in the corresponding row or column.

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

	3	2	2	2	2	2	2	3	2	2
2	T				T				T	
2			T					T		
3	T								T	
2		T				T		T		
3						T				
1	T								T	T
2			T					T		
3		T					T			
2				T	T			T		
2			T							

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

Part I		

10. Sudoku — 65 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 region.

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