

Puzzles Round 2

U-15 Category

Name:

Contact No:

Instructions

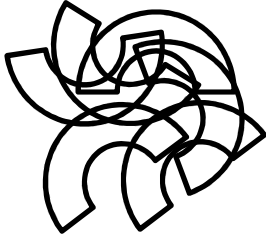
1. Please write your name and contact number in the space provided.
2. Each Puzzle is assigned certain amount of points, based on the difficulty. Points will be awarded only if it is completely correct. There is no partial marking.
3. You may use pen or/and pencil for solving. But make sure the digits are readable.
4. External help of any kind is NOT permitted.
5. Read the puzzle instructions carefully before solving the puzzle.
6. U-15s are eligible for partial points for solving a portion of the puzzle correctly. The partial points will usually be at 50% of the puzzle points, other than exceptional cases.


Puzzle Type		No. of puzzles	Points per Puzzle
Visual		10	3
Shading	Hitori	2	5
	Paint By Number	2	5
Assorted	ABC Connection	1	7
	Easy as ABC	2	6
	Thermometer	1	12
	Star Battle	2	10
Total			101

Visual Puzzles (3 points each)

1) Counting - Count the number of times the shape given on the right appears in the diagram.

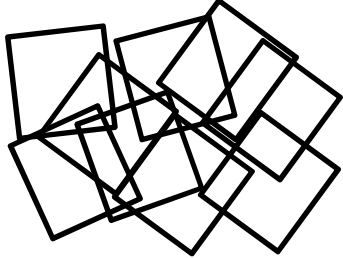
A

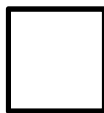




Solution - ____

B





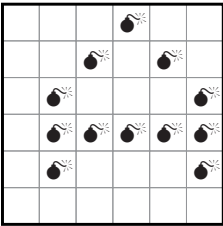
Solution - ____

2) Comparison –

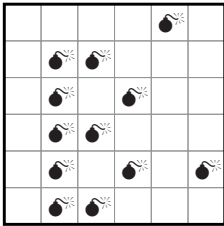
- i. Minesweeper – Any numbers in the grid must be equal to the number of mines around that cell. Pick the right solution accordingly.

		2			1
2					
			2		
				1	

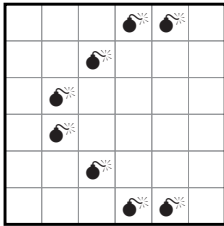
A)



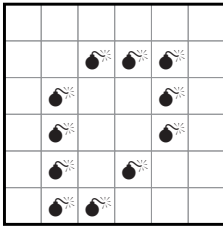
B)



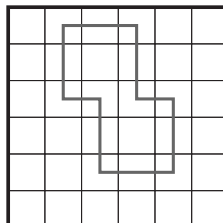
C)

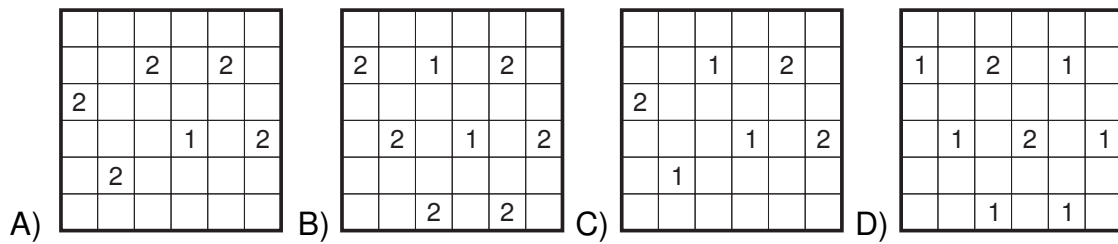


D)



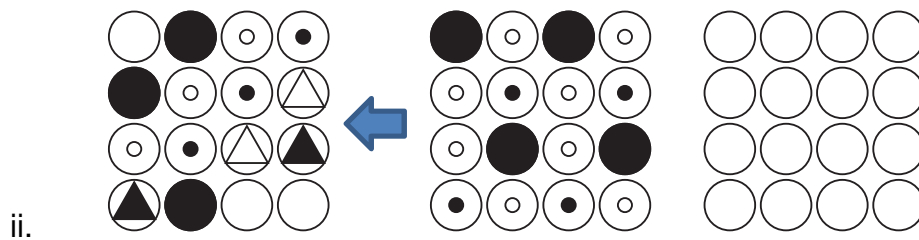
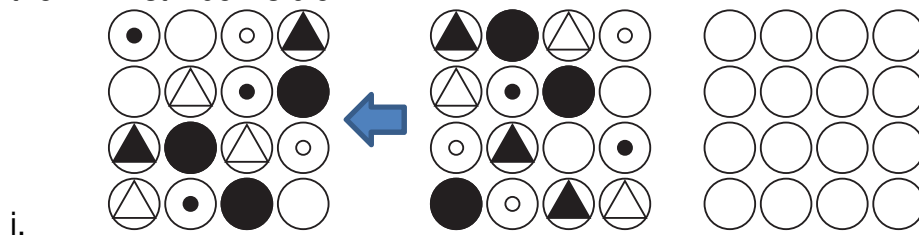
- ii. 1-2 Loop – 1s must be inside the loop and 2s must be outside the loop. Pick the right solution accordingly.





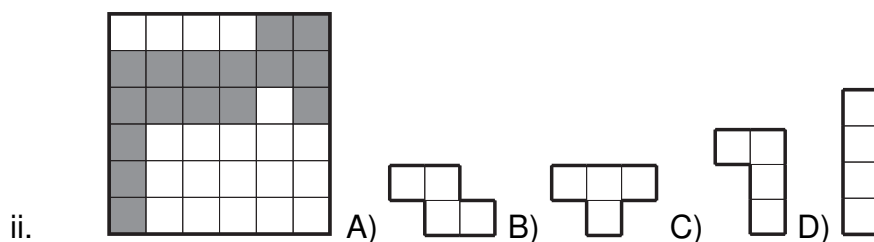
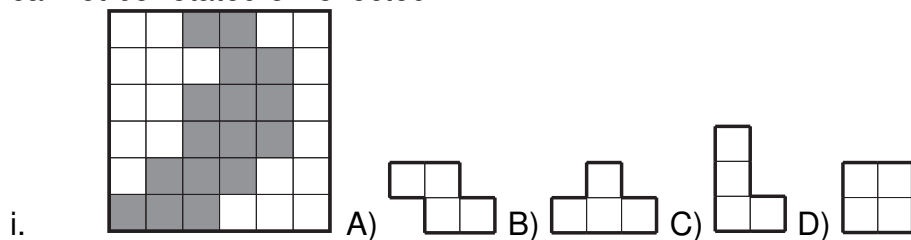
3) Transparency –

Show the resultant grid if the second grid is placed on top of the first grid, without any rotation/reflection. Black pieces are opaque and hide the content behind them, whereas white pieces are transparent and the content behind them will still be visible.



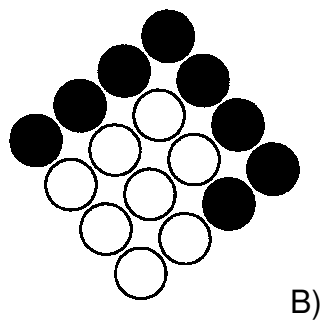
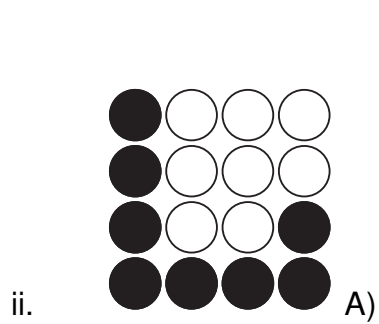
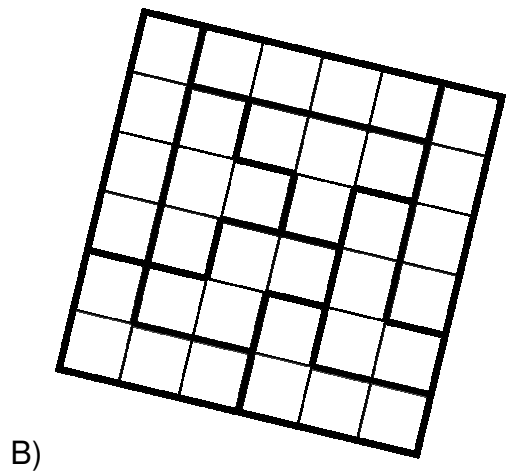
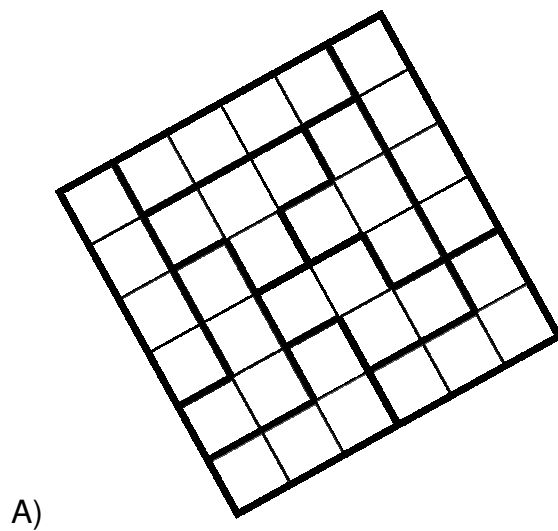
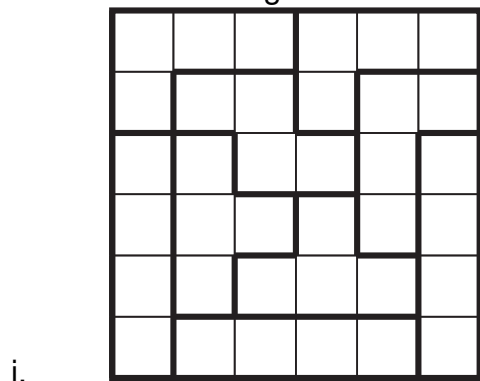
4) Tetris –

From the bank on the right, the tetris pieces must be pushed in from the top of the grid one at a time. Once they are all pushed in, the shape given on the left is formed. Determine the order in which they must be pushed in. Pieces cannot be rotated or reflected.



5) Rotation/Reflection –

An image is given. Out of the 2 options, pick the one that is just a rotated version of the image and not reflected.



Shading Puzzles (5 points each)

Hitori

Black out some of the digits in the grid so that each row and each column contains distinct digits. Black cells must not touch each other horizontally or vertically. It must be possible to visit any white cell from another white cell using horizontal or vertical paths. **Example -**

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

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

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

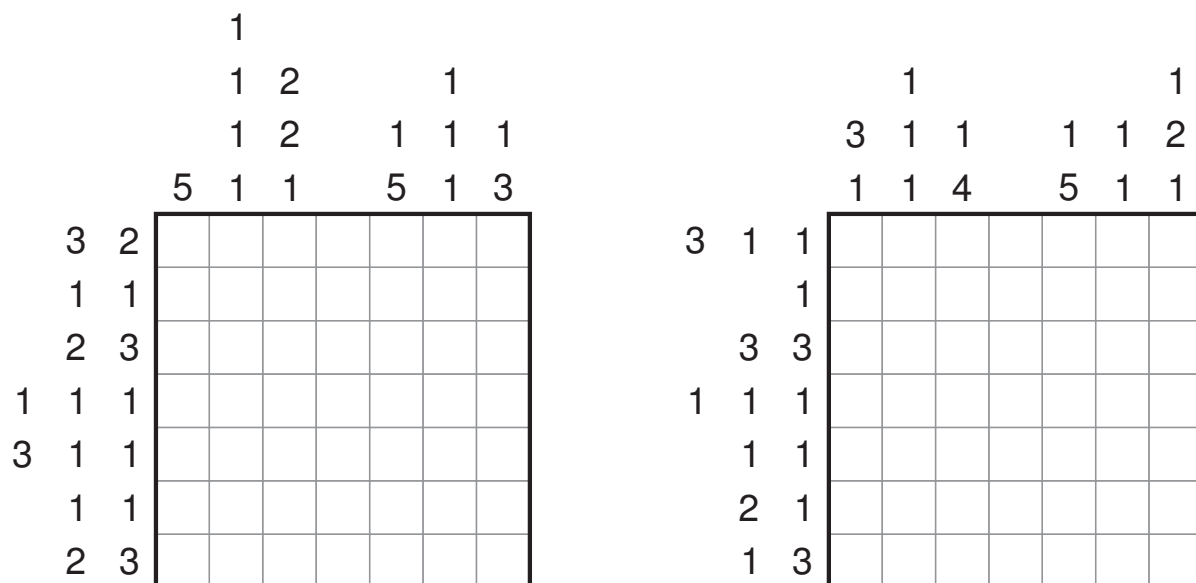
4	6	3	3	5	6
2	4	5	3	1	2
2	4	4	5	3	1
6	3	5	4	2	3
5	5	3	2	4	6
1	5	2	3	6	2

Paint By Number

Some cells within the grid must be shaded. The numbers outside give the sizes of the shaded blocks in that row or column, in the same order. There has to be one white cell at least, between any two shaded blocks. **Example -**

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

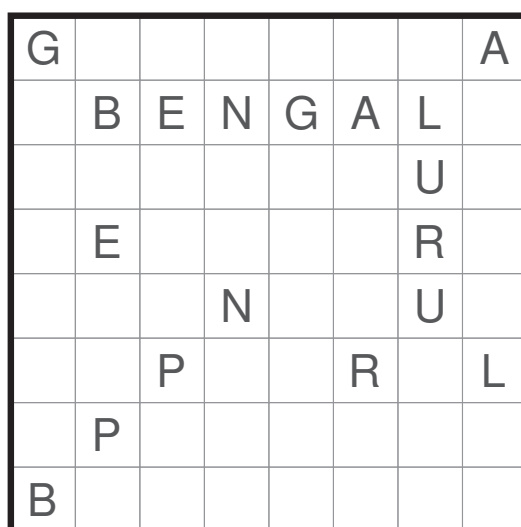
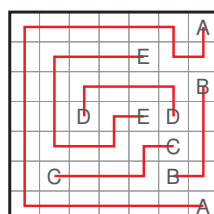
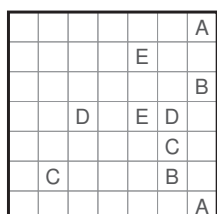
				2	2	1	2	1	
				1	2	1	2	3	5
2	2								
2	1	1							
	4								
	2	2							
	1	3							
	2								



Assorted Puzzles

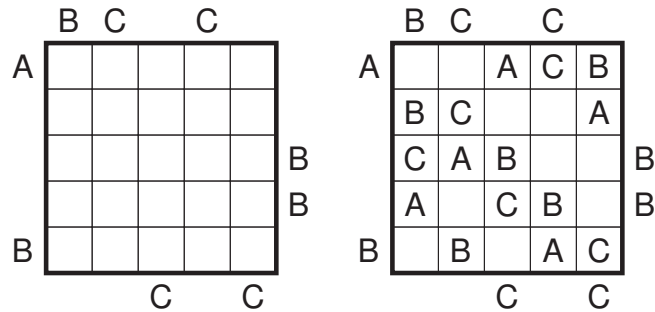
ABC Connection (7 points)

Connect each pair of same letters by paths of connected lines. Every cell of the grid must be visited by exactly one path, and paths cannot cross or overlap each other.

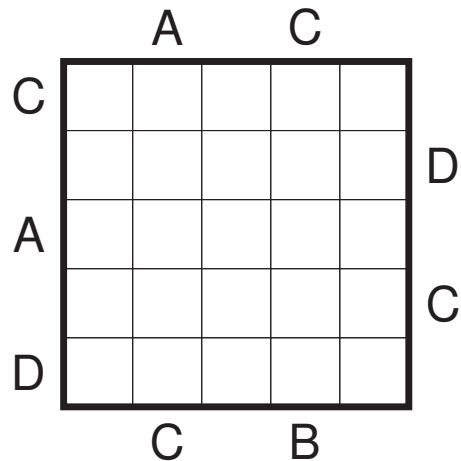
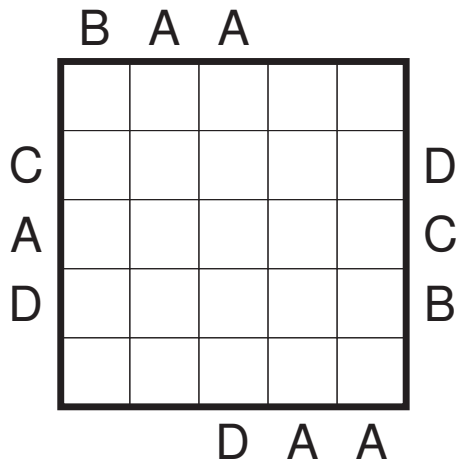


Easy As ABC (6 + 6 points)

Place the letters in the given range (Example's range is A-C) once in every row and column. Letters on the outside indicate that this letter is seen first in that row or column when looking from that side.

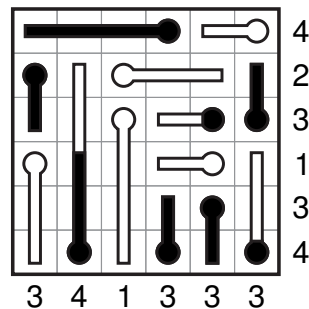
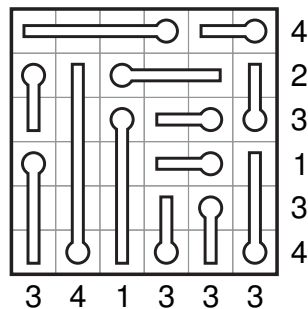


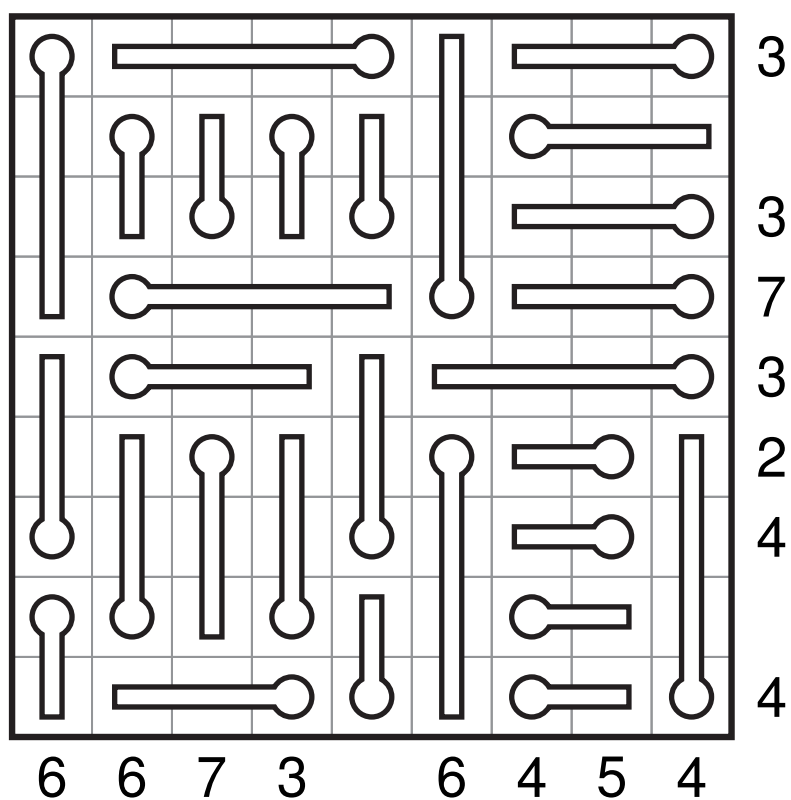
Range – A~D



Thermometers (12 points)

The thermometers in the grid all have their own level of mercury, which always flows from rounded end towards the other end. Thermometers may be empty, partially or completely full. Numbers around the grid indicate the numbers of cells in the corresponding row / column that contain mercury.





Star Battle (10 points each)

Place the given number of stars in each row, each column and each region. Stars do not touch each other, even diagonally.

