Minesweeper

Page 1

1 + 1 + 6 + 3 points

2

- Place mines into some empty cells in the grid such that the numbers in the grid represent the number of mines in the 8 neighboring cells, including diagonal ones.
- > In some of the puzzles, number of mines to be used will be given.

Answer key: Enter the number of mines for each row, from top to bottom.

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



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

27 mines

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



3

Object Placement – Episode 8

1 + 1 + 3 points

Akari

- > Place lightbulbs in some of the white cells so that all white cells are illuminated.
- > Lightbulbs illuminate all cells they can see horizontally and vertically, including the cell in which it is placed.
- > Lightbulbs are blocked by black cells or the edge of the grid.
- > No two lightbulbs may illuminate each other.
- > Numbers in black cells indicate how many orthogonally adjacent cells contain a lightbulb.

Answer key: Enter the number of light bulbs for each row, from top to bottom.







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



5 points

Refer to previous page for rules and answer keys.



Tents

1 + 3 points

- > Place one tent horizontally or vertically next to each tree.
- > Tents do not touch each other, not even diagonally.
- > The numbers outside the grid indicate the number of tents in that row or column.

Answer key: Enter the maximum continuous non-tent area for each row, from top to bottom. In case of double digit numbers, enter the right (unit) digit only.

	*					*
			*			
		≯				
		≯				
			¥		¥	
	*			*	*	
*						







Akari

4 + 7 points

Tents

Refer to previous page for rules and answer keys.

								≯
		☀	≯		≯			
		¥			☀	¥		
≽								≯
	☀			☀				
						¥		
			*		*			≯
		*					*	

	∢								∢			
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								¥		≯		
	≯	≯	≯						*		≯	
				≯				*			*	
≯					≯		¥					1
	≽			≽		*		¥				
				*				¥		≽		
≽												3
	≯					*				≯		
		≯		≯						≯		
			3					3				•

2 + 2 points

- > Place the given fleet of ships with the shapes of the ships as shown.
- > The numbers outside the grid indicate the number of cells occupied by ships in that row or column.
- Ships cannot touch each other, not even diagonally.
- > Some cells are known to be water and are indicated by waves.

Answer key: For each row from top to bottom, enter the column position of first ship segment. Enter "-" if there are no ships in the row.







3 + 6 points

Refer to previous page for rules and answer keys.





Tetromino

5 + 3 points

- > Place the given set of polyominos in grid.
- > Polyominos do not touch each other, even diagonally.
- > Rotations and reflections are allowed.
- > Polyominos cannot be placed in shaded cells.
- > The numbers outside the grid indicate the number of cells occupied by polyominos in that row or column.

Answer key: Enter the letters corresponding to first two polyominos seen from the marked directions. (- if not enough polyominos)











Pentomino

7 + 15 points

Refer to previous page for rules and answer keys.



Y

Y

Х







8 points

Minesweeper Instructionsless





Answer key: Enter the number of mines for each row, from top to bottom.

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

Ε

Χ

A M

Ρ

L

Ε

Page 10

13 points

Tents Instructionsless



Answer key: Enter the maximum continuous non-tent area for each row, from top to bottom. In case of double digit numbers, enter the right (unit) digit only.



End of Test

Minesweeper

? + ? + ? + ? points

- Place mines into some empty cells in the grid such that the numbers in the grid represent the number of mines in the 8 neighboring cells, including diagonal ones.
- > In some of the puzzles, number of mines to be used will be given.

Answer key: Enter the number of mines for each row, from top to bottom.







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

27 mines





Page 1

Object Placement – Episode 8

? + ? + ? points

Akari

- > Place lightbulbs in some of the white cells so that all white cells are illuminated.
- > Lightbulbs illuminate all cells they can see horizontally and vertically, including the cell in which it is placed.
- Lightbulbs are blocked by black cells or the edge of the grid.
- > No two lightbulbs may illuminate each other.
- > Numbers in black cells indicate how many orthogonally adjacent cells contain a lightbulb.

Answer key: Enter the number of light bulbs for each row, from top to bottom.











Akari

? points

Refer to previous page for rules and answer keys.



Tents

? + ? points

- > Place one tent horizontally or vertically next to each tree.
- > Tents do not touch each other, not even diagonally.
- > The numbers outside the grid indicate the number of tents in that row or column.

Answer key: Enter the maximum continuous non-tent area for each row, from top to bottom. In case of double digit numbers, enter the right (unit) digit only.

	*					≯
			≯	\mathbf{Q}		Å.
		≯				
	Ą.	≯	A		Ą.	
			☀		≯	
	*			*	*	
*				\mathcal{P}		







3 + 4 points

Tents

Refer to previous page for rules and answer keys.

			P		P		P	≯
	P	☀	☀		☀			
		☀	P		¥	≯	P	
'₩	P				P			≯
	☀		P	☀				
	P				P	≯		
			≯		¥		P	≯
			P		P			
	\mathcal{P}	*					*	

	¥	P							≯	P		
	≯				≯	Ą	≯	P				
		\mathcal{Q}_{α}						≯		☀	Ŵ	
P	≯	≯	≯	P				P	≯		☀	
											Ą	
P			P	¥	A		P	≯	P		☀	
≽					≯		≯				Ą.	1
	≯			☀	P	≽	P	☀	P			
			\mathcal{P}	≯				☀		☀	A	
≽	Ą					P		P				3
	*					☀				≯		
	$\mathcal{Q}_{\mathbf{x}}$	≯		≯	P				P	≯		
			3					3				•

Page 5

? + ? points

- > Place the given fleet of ships with the shapes of the ships as shown.
- > The numbers outside the grid indicate the number of cells occupied by ships in that row or column.
- Ships cannot touch each other, not even diagonally.
- > Some cells are known to be water and are indicated by waves.

Answer key: For each row from top to bottom, enter the column position of first ship segment. Enter "-" if there are no ships in the row.







? + ? points

Refer to previous page for rules and answer keys.





Tetromino

Page 7

? + ? points

- > Place the given set of polyominos in grid.
- > Polyominos do not touch each other, even diagonally.
- > Rotations and reflections are allowed.
- > Polyominos cannot be placed in shaded cells.
- > The numbers outside the grid indicate the number of cells occupied by polyominos in that row or column.

Answer key: Enter the letters corresponding to first two polyominos seen from the marked directions. (- if not enough polyominos)











Pentomino

? + ? points

Refer to previous page for rules and answer keys.











racayan

Minesweeper Instructionsless







Answer key: Enter the number of mines for each row, from top to bottom.

1				1		2		2			
		2								1	
				4							
							2			2	
	4			2							
						1		1		2	
	3		1		2						
							3			2	
	3			2							\bullet
							2				
	2								2		
			2		3		2				

Page 10

? points





Answer key: Enter the maximum continuous non-tent area for each row, from top to bottom. In case of double digit numbers, enter the right (unit) digit only.

	P	P		P				P			6
≯		≯		≯		≯		≯		≯	
			P	P	¥		P				6
											2
	≯	P	P		☀	P	P		¥		4
									P		3
		P	P		☀	P	P				5
≽		☀						≯			1
	≯	P		P	☀		P	P			6
		P		P					¥	*	3
		≯			≯						4
6		5	3	4	1	4	6	2	2	6	•

End of Test