



INSTRUCTION BOOKLET

| | |
|--------------------------|--------|
| 1. FLOWER SUDOKU | 18 pt |
| 2. FLOWER SUDOKU | 24 pt |
| 3. FLOWER SUDOKU | 54 pt |
| 4. FLOWER SUDOKU | 75 pt |
| 5. NEDOKILLER | 36 pt |
| 6. LMI SUDOKU | 40 pt |
| 7. TRAFFIC LIGHTS SUDOKU | 39 pt |
| 8. AREADOKU | 75 pt |
| 9. WAYSUDOKU | 56 pt |
| 10. CONFETTI SUDOKU | 73 pt |
| <hr/> | |
| TOTAL | 490 pt |

TIME
70 minutes

BONUS
7 points per minute saved if all puzzles are solved correctly

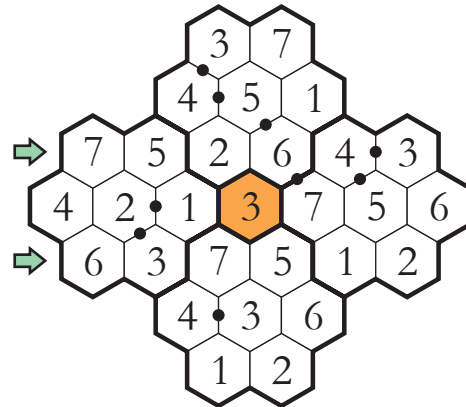
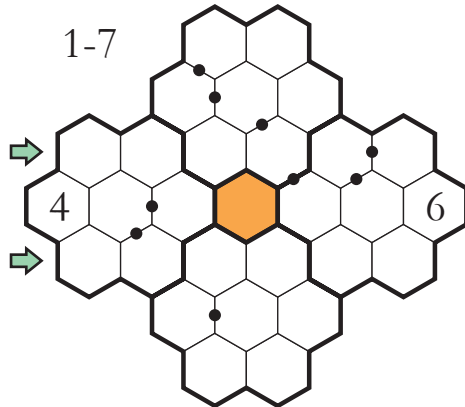
ANSWER KEY
Digits and letters in the marked rows (from left to right), as indicated by arrows

Thanks to Deb Mohanty, Rakesh Rai and Seungjae Kwak

1-4. FLOWER SUDOKU

18, 24, 54, 75 pt

Fill the grid with digits from 1 to N (N is given). Digits must be different in each hexagonal row (in all three directions) and each area (outlined with bold lines). In black cells there are no digits (other colours are only for aesthetic reasons and can be ignored while solving). A circle between two cells indicates that the digits in these cells differ by 1. All possible circles are not marked.

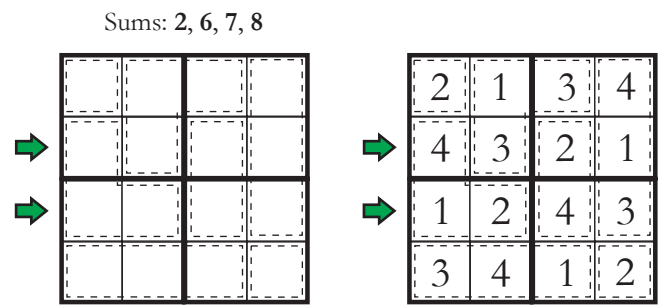


Answer: 752643, 637512

5. NEDOKILLER

36 pt

Fill the grid with digits from 1 to 6 (1 to 4 in the example). Digits must be different in rows, columns and outlined areas. Sum of digits in the dotted regions should be equal to one of the indicated numbers (2, 6, 7 or 8 in the example). Sums for regions with same shape should be equal. Sums for regions with different shapes should be different. Rotation/reflection of a shape is considered as the same shape. Digits can be repeated in a dotted region.

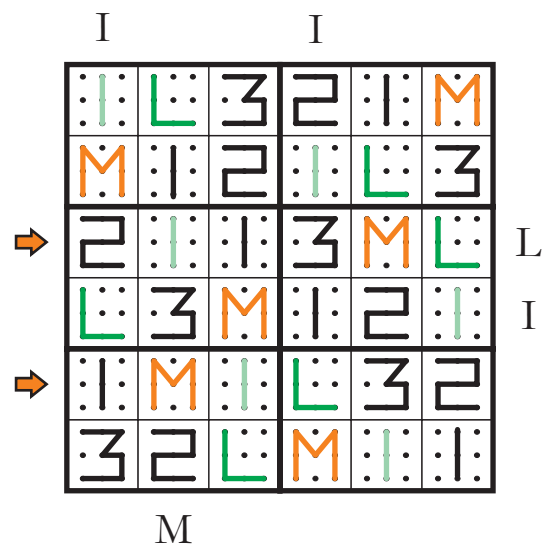
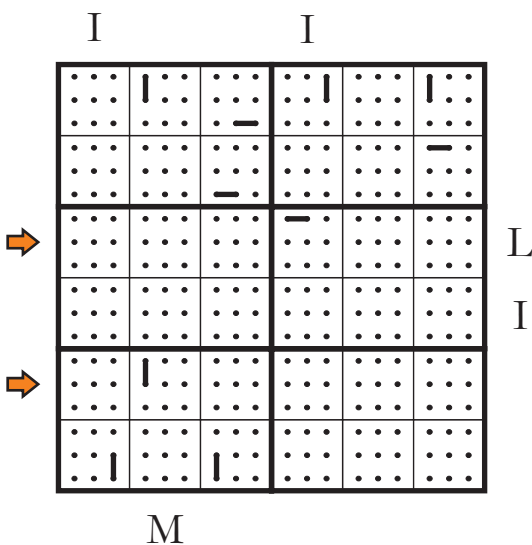


Answer: 4321, 1243

6. LMI SUDOKU

40 pt

Fill the grid with digits from 1 to 3 and the letters L, M, I. Symbol shapes are shown below. Digits and letters must be different in rows, columns and outlined areas. Fragments of some symbols are already given. Each outside clue shows the first letter visible from the corresponding direction.



Answer: 2I13ML, 1MIL32

7. TRAFFIC LIGHTS SUDOKU

39 pt

Fill the grid with digits from 1 to 9. Digits must be different in rows, columns and outlined areas. The sum of digits in the 3 red circles for any row and column should be the same. This condition applies to circles of other colours also. The central cell has circles of all three colours.

| | | | | | | | | | |
|---|---|---|---|---|--|---|---|---|---|
| → | | | | 3 | | 7 | | | |
| | | | 2 | | | | 8 | | |
| | | 7 | | | | | | 6 | |
| | 2 | | | 8 | | 3 | | | 5 |
| | | | | | | | | | |
| | 5 | | | 7 | | 2 | | | 4 |
| | | 3 | | | | | | 8 | |
| → | | | 6 | | | | 3 | | |
| | | | | 9 | | 4 | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| → | | 4 | 1 | 3 | | 7 | 9 | 5 | |
| | 9 | | 2 | 4 | | 6 | 8 | | 3 |
| | 8 | 7 | | 2 | | 5 | | 6 | 1 |
| | 2 | 1 | 7 | 8 | 4 | 3 | 6 | 9 | 5 |
| | | | | 1 | | 9 | | | |
| | 5 | 9 | 8 | 7 | 6 | 2 | 1 | 3 | 4 |
| | 4 | 3 | | 6 | | 1 | | 8 | 7 |
| → | 1 | | 6 | 5 | | 8 | 3 | | 9 |
| | | 8 | 5 | 9 | | 4 | 2 | 1 | |

Answer: 873295461, 126578349

8. AREADOKU

75 pt

Fill the grid with digits from 1 to 9. Each outlined area should contain consecutive series of digits starting with 1. All areas have different number of digits. All empty cells should form a single connected region without 2 x 2 squares. Digits must be different in rows, columns and outlined areas. Cells with 'X' sign are empty.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 3 | 2 | X | 1 | | |
| | | | | | | | | |
| | | | | | 4 | | | |
| → | | | X | | 1 | 2 | X | |
| | 7 | | | 6 | | | | |
| → | 4 | | | 8 | | | | |
| | | | | 4 | | | 3 | |
| | 1 | | | | | 5 | | |
| | | 6 | X | | | | 7 | 8 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | X | X | X | 3 | 2 | X | 1 | X | X |
| | X | 1 | X | X | X | X | X | 2 | X |
| | X | X | X | 1 | 5 | 4 | X | X | X |
| → | X | 6 | X | 4 | 7 | 1 | 2 | X | 3 |
| | 7 | 5 | 1 | 6 | 3 | 2 | X | X | X |
| → | 4 | 2 | 3 | 5 | 8 | X | X | 1 | X |
| | 5 | X | X | 2 | 4 | X | 6 | 3 | 1 |
| | 1 | 3 | X | X | X | X | 5 | 4 | 2 |
| | 2 | 4 | 6 | X | 1 | 3 | 9 | 7 | 8 |

Answer: X6X4712X3, 42358XX1X

9. WAYSUDOKU

56 pt

Fill the grid with digits from 1 to 9. Digits must be different in rows, columns and outlined areas. Enter the given sequence of digits along the arrows in the indicated direction.

| | | | | | | | |
|---|---|--|--|--|--|---|---|
| | 3 | | | | | 1 | |
| 7 | | | | | | | 2 |
| | | | | | | | |
| 9 | | | | | | | 7 |
| | | | | | | | |
| 1 | | | | | | | 3 |
| | 8 | | | | | | 2 |

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

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

Answer: 578143269, 389617425

10. CONFETTI SUDOKU

73 pt

Fill the grid with digits from 1 to 9. Digits must be different in rows, columns and outlined areas. All pairs of digits having differences of K, L and M are marked with circles of white, grey and black colours respectively. K, L and M are different numbers and need to be determined as part of solving.

| | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Answer: 815926743, 463519278