



WPF  
SUDOKU/PUZZLE  
**GRAND PRIX**  
2021

**WPF SUDOKU GP 2021**  
INSTRUCTION **BOOKLET**

**ROUND 4**

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Organised by



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**General Answer Format:**

Each Sudoku has two marked rows or columns. You need to submit all digits in the corresponding directions, from left to right or from top to bottom.



In the example, the two answer keys are:

1A: 367594218  
1B: 283749165

All puzzles will use digits 1-9 in the submission.



**Submission Page:**

<http://gp.worldpuzzle.org/content/sudoku-gp>

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

**Version:**

This is version 1 of the instruction booklet.

**Points:**

|        |                              |     |
|--------|------------------------------|-----|
| 1      | Classic Sudoku               | 10  |
| 2      | Classic Sudoku               | 10  |
| 3      | Classic Sudoku               | 11  |
| 4      | Classic Sudoku               | 14  |
| 5      | Classic Sudoku               | 22  |
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| TOTAL: |                              | 600 |



### 1-7 Classic Sudoku

Place a digit from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each digit exactly once.

Example

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

Solution

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

### 8 Clone Sudoku

Apply classic sudoku rules. Digits in the same place in both shaded figures must be identical.

Example

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

Solution

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



### 9 Symmetric Unequal Sudoku

Apply classic sudoku rules. The digits placed in any pair of cells related by 180 degrees rotational symmetry (e.g. R1C2 and R9C8) must not repeat.

Example

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

Solution

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

### 10 Extra Regions Sudoku

Apply classic sudoku rules. Each of the shaded regions must also contain each digit from 1-9 exactly once.

**Note:** In the actual puzzle extra regions will be represented by gray lines instead of gray cells.

Example

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

Solution

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



**11 Consecutive Pairs Sudoku**

Apply classic sudoku rules. If a circle is given between two adjacent cells, then the digits in those cells must be consecutive. Not all circles are given; adjacent cells without a circle may contain either consecutive numbers or non-consecutive numbers.

Example

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

Solution

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

**12 Frame Sudoku**

Apply classic sudoku rules. Numbers outside the grid are equal to the sum of the first 3 digits appearing in the corresponding row or column.

Example

|    |    |   |    |    |  |   |   |    |    |
|----|----|---|----|----|--|---|---|----|----|
|    |    | 3 |    |    |  |   |   |    | 23 |
| 11 |    |   | 3  |    |  |   |   |    | 14 |
| 22 |    |   |    |    |  |   |   |    | 8  |
|    |    |   |    |    |  |   |   |    | 21 |
|    |    |   |    | 2  |  |   |   |    |    |
| 21 |    |   |    |    |  |   |   |    |    |
| 16 |    |   |    |    |  |   |   |    | 22 |
| 15 |    |   |    |    |  | 3 |   |    | 11 |
| 14 |    |   |    |    |  |   | 3 |    |    |
|    | 21 | 9 | 15 | 14 |  |   |   | 22 | 11 |

Solution

|    |    |   |    |    |  |   |   |    |    |
|----|----|---|----|----|--|---|---|----|----|
|    |    | 3 |    |    |  |   |   |    | 23 |
| 11 |    |   | 3  |    |  |   |   |    | 14 |
| 22 |    |   |    |    |  |   |   |    | 8  |
|    |    |   |    |    |  |   |   |    | 21 |
|    |    |   |    | 2  |  |   |   |    |    |
| 21 |    |   |    |    |  |   |   |    |    |
| 16 |    |   |    |    |  |   |   |    | 22 |
| 15 |    |   |    |    |  | 3 |   |    | 11 |
| 14 |    |   |    |    |  |   | 3 |    |    |
|    | 21 | 9 | 15 | 14 |  |   |   | 22 | 11 |



**13 Coded Pointing Evens Sudoku**

Apply classic sudoku rules. The clues with an arrow outside the grid indicate the number of even digits in the indicated direction. However, some of these clues are replaced by letters. Different letters mean different numbers. Lettered clues can be equal to any of the given numbered clues.

Example

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

Clues: 0 (top-left), 2 (top-left), A (right), B (left), C (bottom)

Solution

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

Clues: 0 (top-left), 2 (top-left), 0 (right), 2 (left), 1 (bottom)

**14 Greater or Difference Sudoku**

Apply classic sudoku rules. Each number between two neighbouring cells is either the greater of the digits or the difference between the digits in those two cells.

Example

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

Solution

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

### 15 Remote Clones Sudoku

Apply classic sudoku rules. Lines in a cell mark that in those two directions both digits are the same at a distance of N where N is the value of that cell. Not all possible lines are given.

Example

|   |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|
|   |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |

Solution

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