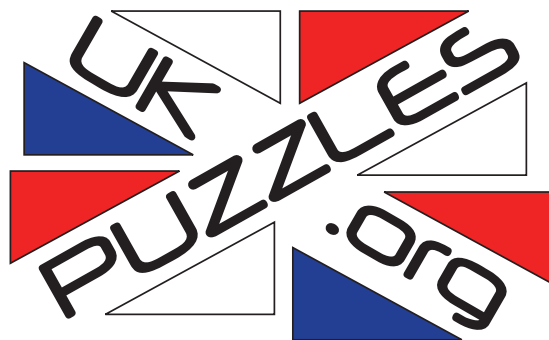




UK Sudoku Championship 2025

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World Sudoku Championship Qualification

INSTRUCTION BOOKLET

Friday 13th June - Monday 16th June

2 hours

Participation is anticipated to be very high and appeals will only be upheld in exceptional circumstances. Therefore it is **VERY IMPORTANT** that you check that each answer key submitted is correct. Upon hitting the submit button, your answers will be sent to the server. You may submit answers as many times as you like, but only the last received keys will be subject to scoring.

Urgent matters arising during the contest should be directed towards chairman@ukpuzzles.org. In the event of the web hosting service failing during your participation, e-mail your answer keys before your 2 hours is completed. Answers submitted this way will only be accepted if a hosting failure, or equivalent, has occurred.

Scoring and Bonuses. Points for successfully solved puzzles will be awarded according to the following table.

Puzzle	Points	Puzzle	Points
Odd Sudoku	4	Non-Consecutive Sudoku	28
Even Sudoku	5	Windoku	83
Deficit Sudoku	19	Classic Sudoku	36
Surplus Sudoku	21	Palindrome Sudoku	61
Odd-Even-Big-Small Sudoku	73	X-Sums Sudoku	44
Classic Sudoku	29	Eliminate Sudoku	34
Diagonal Sudoku	78	Clone Sudoku	30
Irregular Sudoku	61	Classic Sudoku	49
Killer Sudoku	65		
TOTAL:		720	

Participants who submit correct answer keys for all of the puzzles before the allotted 2 hours are up will be awarded **6 points** for each minute saved, as recorded by the last submission time to the server. Late submissions will not be accepted, so it is recommended that answers are submitted as you solve, rather than waiting until time is running out.

A partial bonus of **2 points** for each minute saved will apply if all but one submitted answer keys are correct.

N.B. Although the points allocated to a particular puzzle are a general indication of its difficulty and the time expected to solve it, it is possible that your individual experience may vary greatly.

Code of Conduct. All participants are expected to solve the puzzles honestly and fairly. You are not permitted to use any external solving aids of any form or receive assistance from any other individual.

It is strictly forbidden to discuss any details of the championship puzzles, or make their contents known to others via any medium whilst the contest is live.

The championship organisers reserve the right to disqualify any participant judged to have acted with improper conduct. The decisions made by the organisers are final.

Acknowledgements. The championship has been organised and coordinated by Tom Collyer. The competition puzzles have been provided by Tom Collyer. Example puzzles have been provided by Tom Collyer. We thank Rebecca Chang, Mindren Lu, Thomas Luo, Alex Robinson, Liane Robinson and Kevin Sun for helping to test the puzzles.

Rules and Example Puzzles

N.B. The example puzzles are a true reflection in quantity, grid dimension and format of the corresponding competition puzzles. The competition puzzles will appear at a significantly larger size - one per page. The difficulty of an example puzzle may not be reflective of the difficulty of the corresponding competition puzzle.

It is recommended that both example and competition puzzles are printed from a PDF viewer, and not directly from a web browser.

1. Odd Sudoku

4 points

Rules: In each grid, place a number from 1-6 in each empty cell such that each row, column and marked 3×2 box contains each number exactly once. Numbers placed in shaded cells must be odd.

4		3			
	2				
1					
					1
				2	
			4		6

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

2. Even Sudoku

5 points

Rules: In each grid, place a number from 1-6 in each empty cell such that each row, column and marked 3×2 box contains each number exactly once. Numbers placed in shaded cells must be even.

5		4			
	3				
2					
					2
				3	
			5		1

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

3. Deficit Sudoku

19 points

Rules: Place a number from 1-7 in each empty cell in the grid such that each row and column contains each number exactly once, and each marked 6-cell region contains each number at most once.

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

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

4. Surplus Sudoku

21 points

Rules: Place a number from 1-7 in each empty cell in the grid such that each row and column contains each number exactly once, and each marked 8-cell region contains each number at least once.

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

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

5. Odd-Even-Big-Small Sudoku

73 points

Rules: Place a number from 1-8 in each empty cell in the grid such that each row, column and marked 8-cell box contains each number exactly once. The clues outside the grid indicate that the first two cells in the corresponding direction must contain numbers matching the description.

Odd = {1, 3, 5, 7}; Even = {2, 4, 6, 8}; Big = {5, 6, 7, 8}; Small = {1, 2, 3, 4}.

	1				8		
		2					
			3				
				4			
					5		
		7				6	

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

6. Classic Sudoku

29 points

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

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

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

7. Diagonal Sudoku

78 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. Each marked diagonal must also contain each number from 1-9 exactly once.

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

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

8. Irregular Sudoku

61 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 9-cell region contains each number exactly once.

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

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

9. Killer Sudoku

65 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. The numbers placed in each marked cage must sum to the total given in its top-left. Numbers must not repeat in cages.

20		9		17	9		20	
		22	16		27	18		
8								11
				15				
12						22		
8	30				17			11
	11			19		16		
24								17
		16			10			

20	6	3	9	2	7	17	9	8	1	20	5	4
	4	7	23	8	1	16	6	27	18	3	9	2
8	1	9	5	3	2	4	7	8	11	6		
	7	2	4	6	15	3	9	8	1	5		
12	8	1	3	4	5	2	22	6	7	9		
8	5	30	6	9	8	1	17	2	4	13		
	3	11	4	6	5	19	7	1	16	9	2	8
24	9	8	1	2	4	3	5	17	6	7		
	2	5	16	7	9	8	10	6	4	3	1	

10. Non-Consecutive Sudoku

28 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. Numbers placed in adjacent cells must not be consecutive.

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

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

11. Windoku

83 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. Each of the four shaded 3×3 regions must also contain each number from 1-9 exactly once.

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

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

12. Classic Sudoku

36 points

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

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

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

13. Palindrome Sudoku

61 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. Numbers placed along marked lines must form a palindromic sequence, e.g. 1234321.

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

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

14. X-Sums Sudoku

44 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. The clues outside the grid indicate the sum of the first X numbers placed in the corresponding direction, where X is equal to the first number placed in that direction.

	1	10	18	15	20	33	35	36	45	
1										45
34										21
22										6
45										36
33										15
12										3
38										28
35										10
5										1
	7	18	17	30	30	36	38	45	1	

	1	10	18	15	20	33	35	36	45	
1	1	2	3	4	5	6	7	8	9	45
34	7	8	9	1	2	3	4	5	6	21
22	4	5	6	7	8	9	1	2	3	6
45	9	1	2	3	4	5	6	7	8	36
33	6	7	8	9	1	2	3	4	5	15
12	3	4	5	6	7	8	9	1	2	3
38	8	9	1	2	3	4	5	6	7	28
35	5	6	7	8	9	1	2	3	4	10
5	2	3	4	5	6	7	8	9	1	1
	7	18	17	30	30	36	38	45	1	

15. Eliminate Sudoku

34 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. Numbers placed in cells with arrows must not be placed in subsequent cells in the corresponding direction.

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

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

16. Clone Sudoku

30 points

Rules: Place a number from 1-9 in each empty cell in the grid such that each row, column and marked 3×3 box contains each number exactly once. In each shaded region of the same shape, the numbers placed in corresponding cells of the regions must be the same. Shapes related by non-trivial rotations or reflections are considered to be different.

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

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

17. Classic Sudoku**49 points**

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

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

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