



3rd WORLD SUDOKU CHAMPIONSHIP
14–17 APRIL 2008 • GOA • INDIA

INSTRUCTION BOOKLET

Playoffs

Rounds 2 and 6 which comprise entirely of classic sudoku will add up for the classic trophy. Top 4 participants in the aggregate of these two rounds will compete in the on-camera final playoffs for the classic trophy.

Rounds 1 to 7 will add up for the individual trophy. Top 8 participants will participate in semifinal playoffs. Top 4 participants from the semifinals will compete in the on-camera final playoffs for the individual trophy.

Team trophy

The points of the 3 nominated competitors from each country will add up for the team trophy along with the points from dedicated team rounds 8 and 9.

Scoring system

Participants will be awarded points according to the points indicated against each puzzle for each round. The points are allocated according to difficulty and time required to solve each puzzle.

Rounds 1,3,4,5 which are predominantly variant rounds, also contain a few classic sudokus. However to encourage participants to solve the sudoku variants, the ratio of available points / expected solving time for these standard classic sudokus is set to about only half of the other variant puzzles in the same round. For e.g. if a variant sudoku with expected solving time 5 minutes is worth 50 points then a classic sudoku with same solving time would be worth around 25 points.

In round 7, Twins, three twins, namely, Sum Sudoku Twins, Alphabet Substitution Twins and Classic / Irregular Twins have identical solution grids. For these three puzzles it is sufficient to solve any one of the two grids, to obtain full points allotted for the sudoku. In the same round the Difference 1/8, Unidentical and Sum >8 Twins have different grids. These sudokus have partial points for solving any one of the two grids. For obtaining full points both grids need to be solved.

In round 9, the Tiles team round the tiled irregular and tiled diagonal sudokus have partial points for solving the configuration correctly. Partial points will be awarded for putting the givens in the configuration in the correct position on the answer grid. The resulting standard variant needs to be solved completely to obtain full points for that puzzle.

Bonus points

Individual rounds 2 and 6 have 15 bonus points per minute according to the time saved from the allotted time for these rounds.

Team rounds 8 and 9 have 30 bonus points per minute according to the time saved from the allotted time for these rounds.

Bonus points are only awarded if complete and correct answers have been given to all puzzles in the round.

INDIVIDUAL ROUNDS

1. WELCOME

45 minutes • 450 points

1. EVEN SUDOKU	30
2. DIAGONAL SUDOKU	55
3. OUTSIDE SUM SUDOKU	65
4. NUMERAL SUDOKU	95
5. ALPHABET SUDOKU	70
6. PENCIL MARKS SUDOKU	85
X. CLASSIC SUDOKU	5
X. CLASSIC SUDOKU	10
X. CLASSIC SUDOKU	15
X. CLASSIC SUDOKU	20

2. CLASSICS

45 minutes • 450 points + bonus

1. CLASSIC SUDOKU	15
2. CLASSIC SUDOKU	15
3. CLASSIC SUDOKU	25
4. CLASSIC SUDOKU	25
5. CLASSIC SUDOKU	30
6. CLASSIC SUDOKU	35
7. CLASSIC SUDOKU	40
8. CLASSIC SUDOKU	45
9. CLASSIC SUDOKU	50
10. CLASSIC SUDOKU	55
11. CLASSIC SUDOKU	55
12. CLASSIC SUDOKU	60

3. ODD / EVEN

40 minutes • 400 points

1. ODD SUDOKU	50
2. ODD / EVEN SUDOKU	55
3. STANDARD ODD EVEN SUDOKU	40
4. ALL ODD OR ALL EVEN IN BOX	55
5. ODD SUM PAIR	70
6. OUTSIDE VIEW	85
X. CLASSIC SUDOKU	5
X. CLASSIC SUDOKU	5
X. CLASSIC SUDOKU	15
X. CLASSIC SUDOKU	25

4. STANDARD VARIATIONS

40 minutes • 400 points

1. TRIO SUDOKU	50
2. CONSECUTIVE SUDOKU	45
3. IRREGULAR SUDOKU	60
4. DIAGONAL SUDOKU	65
5. EXTRA REGION SUDOKU	55
6. SUM SUDOKU	80
X. CLASSIC SUDOKU	5
X. CLASSIC SUDOKU	10
X. CLASSIC SUDOKU	15
X. CLASSIC SUDOKU	25

5. NEIGHBOURS

60 minutes • 600 points

1. SUDOKU XV	60
2. QUAD MAX SUDOKU	45
3. NO KNIGHT STEP SUDOKU	55
4. FORTRESS SUDOKU	60
5. INEQUALITY SUDOKU	90
6. NON CONSECUTIVE SUDOKU	100
7. GROUP SUM SUDOKU	125
X. CLASSIC SUDOKU	25
X. CLASSIC SUDOKU	15
X. CLASSIC SUDOKU	15
X. CLASSIC SUDOKU	10

6. RELAY

30 minutes • 300 points + bonus

1. RELAY I	25, 35, 40, 50
2. RELAY II	25, 35, 40, 50

7. TWINS

40 minutes • 400 points

1. DIFFERENCE 1/8 TWINS	50+10
2. SUM SUDOKU TWINS	45
3. ALPHABET SUBSTITUTION TWINS	50
4. CLASSIC / IRREGULAR TWINS	65
5. UNIDENTICAL TWINS	75+20
6. SUM > 8 TWINS	70+15

TEAM ROUNDS

8. TILES

35 minutes • 1200 points + bonus

- | | |
|--------------------|---------|
| 1. TILED SUM | 325 |
| 2. TILED IRREGULAR | 300+125 |
| 3. TILED DIAGONAL | 325+125 |

9. WEAKEST LINK

50 minutes • 1800 points + bonus

INDIVIDUAL

- | | |
|------------------------|----|
| 1. SAMURAI | |
| A. ODD SUDOKU | 70 |
| B. DIAGONAL SUDOKU | 70 |
| C. EXTRA REGION SUDOKU | 70 |
| D. IRREGULAR SUDOKU | 70 |
| E. CLASSIC SUDOKU | 70 |
| 2. CLASSIC SUDOKU | 50 |

TEAM

- | | |
|------------------------|-----|
| 1. CLASSIC SUDOKU | 100 |
| 2. ODD SUDOKU | 125 |
| 3. EXTRA REGION SUDOKU | 125 |
| 4. IRREGULAR SUDOKU | 125 |
| 5. DIAGONAL SUDOKU | 125 |

TOTAL POINTS = 1800 (3 x 400 + 600)

TIME BONUS

INDIVIDUAL CLASSIC ROUNDS

15 PTS / MIN

TEAM ROUNDS

30 PTS / MIN

Alphabet Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the set of 9 letters presented in the grid.

P		M	S			N		H
	A				M		P	
H		O	P			M		A
O								P
C	H	A	M	P	I	O	N	S
M								I
A		C			S	P		N
	M		I				S	
S		P			H	I		M

P	C	M	S	I	A	N	O	H
I	A	N	H	O	M	S	P	C
H	S	O	P	C	N	M	I	A
O	N	I	A	S	C	H	M	P
C	H	A	M	P	I	O	N	S
M	P	S	N	H	O	A	C	I
A	I	C	O	M	S	P	H	N
N	M	H	I	A	P	C	S	O
S	O	P	C	N	H	I	A	M

Pencil Marks Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. In some of the cells you find all allowed candidates for the specific cell.

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

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

Classic Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9.

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

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

Numeral Sudoku

Fill in the grid so that every row, every column, every diagonal and every 3x3 box contains the digits 1 through 9. Cells with a letter contain a digit for which the corresponding numeral contains the given letter. Sample uses numerals in Spanish, other languages are possible.

NUMERALS IN SPANISH

- | | | |
|---------|-----------|----------|
| 1. UNO | 4. CUATRO | 7. SIETE |
| 2. DOS | 5. CINCO | 8. OCHO |
| 3. TRES | 6. SEIS | 9. NUEVE |

N		C	I	A				
R	I	T	U	V			R	
						N		I
T			U					
N		H		R	R	C	O	
	O	O			C		S	
T				C				
	C	N	E	S	H		S	
		S	I	T				N

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

Even Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The orange cells can contain even digits only.

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

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

Diagonal Sudoku

Fill in the grid so that every row, every column, every highlighted diagonal and every 3x3 box contains the digits 1 through 9.

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

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

Outside Sum Sudoku

Fill in the grid so that every row, every column, every diagonal and every 3x3 box contains the digits 1 through 9. Numbers outside the grid equal the sum of the first three digits in the row or column in the corresponding direction.

11	17	17	8	20	17	16	15	14	
17					7				8
13									18
15									19
11	4								18
19									15
15								2	12
18									15
11									13
16			8						17
	16	12	17	15	12	18	16	9	20

11	17	17	8	20	17	16	15	14		
17	3	6	8	4	9	7	2	5	1	8
13	7	2	4	1	5	8	6	3	9	18
15	1	9	5	3	6	2	8	7	4	19
11	4	1	6	9	2	5	7	8	3	18
19	9	8	2	7	3	1	5	4	6	15
15	5	7	3	6	8	4	1	9	2	12
18	8	3	7	2	4	6	9	1	5	15
11	6	4	1	5	7	9	3	2	8	13
16	2	5	9	8	1	3	4	6	7	17
	16	12	17	15	12	18	16	9	20	

Odd Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The blue cells can contain odd digits only.

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

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

Odd-Even Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The orange cells can contain even digits only while the blue cells can contain odd digits only..

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

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

All Odd/ All Even in Box

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 to 9. In each 3X3 box, the grey cells have same parity, if one is odd, all are odd, OR if one is even then all are even.

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

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

Odd Sum Pair

Fill in the grid so that every row, every column and every 3X3 box contains the digits 1 to 9. The sum of the pair of digits in each 1X2 marked rectangle is odd.

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

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

Odd Even View

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. Odd digits outside the grid represent the first odd digit that can be seen from the corresponding direction. Even digits outside the grid represent the first even that can be seen digit from the corresponding direction.

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

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

Trio Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. Cells with circles must contain digits 1-2-3, cells with squares must contain digits 4-5-6 and blank cells must contain digits 7-8-9.

□	○				□	○	○	□
○	□		○	4	○	□		
○		6	□	○		2	□	
	○	□		○	□		○	□
	9	○	○	□	○		5	□
□	□	○	□			○		○
		3	○	□	□	7	□	○
○	○	□	□	8		□	○	
□	□			○	○	□		○

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

Consecutive Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. Neighbouring cells which contain consecutive digits are separated by white bars.

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

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

Extra Region Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. Each group of nine like coloured cells must also contain the digits 1 through 9.

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

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

Irregular Sudoku

Fill in the grid so that every row, every column and every outlined region of nine cells contains the digits 1 through 9.

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

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

Diagonal Sudoku

Fill in the grid so that every row, every column, every highlighted diagonal and every 3x3 box contains the digits 1 through 9.

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

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

Sum Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The sum of the digits within each dotted subarea equals the number given in the top left corner of that subarea. No digit can occur more than once in each subarea.

11	6	10		16	12			16
		11	13		6			
11	13			4		24	14	
		3		17				4
16		14	17				11	
	17		4		9			16
10			5		9	11		
		11		11			12	10
	23				8			

11	6	10	4	6	16	12	3	7	16
8	1		9	8	7	4	2	1	6
3	5	11	13						
11	13			5	4	1	3	24	14
6	7	2							4
5	4	3	1	2	17	8	9	7	6
4									3
16		14	17	7	4	6	8	11	
9	2	3							1
7	17	6	4	1	3	9	5	4	2
									16
10			5	3	2	9	8	11	
1	9								4
									7
2	3	11	7	4	11	6	1	5	12
									10
4	23				8	7	1	3	
									8
									2

Sudoku XV

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. All the adjacent cell pairs (sharing an edge) with two digits summing to 5 are marked by V, while those summing to 10 are marked by X.

	V							
	9	X	X			X	5	X
X				X	V	X		V
		6	V	2		V		
V			X					
	X	5	V	7		V	X	
						X		
X	6						8	X
		X						
		X				X		

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

Quad Max

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The arrows in each circle indicate the biggest of the digits in the cells covered by the corresponding circle.

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

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

No Knight Step

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. No cell that is a knight-step away can contain the same digit. In chess, a knight moves two squares forward followed by one sideways. In the small example grid below e.g., the digit 3 cannot occur in cells marked with X.

	X		X	
X				X
		3		
X				X
	X		X	

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

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

Fortress Sudoku

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The digits in the grey cells are greater than all digits in the adjacent white cells.

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

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

Inequality

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. Digits must be placed according to the given inequality symbols (< or >).

			2					
2			8					1
			7					

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

Non Consecutive

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. No adjacent cell pairs (sharing an edge) can contain digits which are consecutive to each other.

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

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

Group Sum

Fill in the grid so that every row, every column and every 3x3 box contains the digits 1 through 9. The numbers in each circle indicates the sum of the digits in the cells covered by the corresponding circle.

23			15	18				29
	25		22	30				13
		24			25			
11	17		30	26		14	17	
23	25		18	15		12	21	
		21			20			
	11		23	19			29	
25			18	19				16

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

Difference 1/8 Twins

Fill in the grids so that every row, every column and every 3x3 box contains the digits 1 through 9. The difference between every pair of digits occupying same position must be 1 or 8.

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

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

Sum Sudoku Twins

Fill in the grids so that every row, every column and every 3x3 box contains the digits 1 through 9. The sum of the digits within each dotted subarea equals the number given in the top left corner of that subarea. No digit can occur more than once in each subarea. Both the sum sudoku grids have the same solution.

²⁹ 4	²¹ 5	²⁴ 1	3	³⁰ 8	2	²⁸ 6	9	7
8	6	9	7	4	5	1	2	3
2	7	3	²⁸ 1	9	6	¹¹ 4	²⁷ 5	8
6	9	¹⁹ 7	8	¹⁵ 5	1	2	3	4
1	3	8	4	2	9	5	7	²⁹ 6
²⁶ 5	4	¹² 2	6	7	²⁰ 3	9	8	1
9	8	4	¹¹ 2	6	7	⁴ 3	1	5
¹⁸ 7	1	5	9	¹⁷ 3	4	¹⁴ 8	6	²² 2
3	2	6	5	1	8	7	4	9

¹³ 4	5	1	3	¹⁹ 8	¹⁸ 2	²² 6	9	7
¹⁷ 8	¹⁸ 6	9	7	4	5	1	⁵ 2	3
2	7	3	⁹ 1	¹⁴ 9	6	4	¹³ 5	8
³⁰ 6	9	7	8	5	³ 1	2	⁷ 3	4
⁴ 1	3	8	¹² 4	²¹ 2	9	³⁵ 5	7	6
⁹ 5	4	⁶ 2	6	7	3	9	8	⁸ 1
²⁷ 9	8	4	2	¹⁵ 6	¹⁹ 7	⁴ 3	1	5
7	³ 1	²⁰ 5	9	3	4	³⁴ 8	6	2
3	2	6	5	1	8	7	4	9

Alphabet Substitution Twins

Fill in the grids so that every row, every column and every 3x3 box contains the digits A through I for the alphabet sudoku on the left and 1 through 9 for the classic sudoku on the right. The alphabet sudoku and the classic sudoku have a one-to-one correspondence. Each letter in the first grid is substituted by same digit in the second grid.

B	G	H	I	D	A	E	H	C
E	H	C	H	B	G	I	A	D
A	I	D	E	C	H	G	B	H
I	H	E	B	H	C	D	G	A
D	C	G	A	H	I	B	E	H
H	A	B	D	G	E	H	C	I
C	B	H	G	I	D	A	H	E
G	E	I	H	A	H	C	D	B
H	D	A	C	E	B	H	I	G

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

Classic + Irregular Twins

Fill in the grids so that every row, every column and outlined region of nine cells for the irregular sudoku and every 3x3 box for the classic sudoku contains the digits 1 through 9. The classic sudoku and irregular sudoku both have the same solution.

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

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

Unidentical Twins

Fill in the grids so that every row, every column and every 3x3 box contains the digits 1 through 9. Numbers occupying the same positions must be different.

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

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

Sum > 8 Twins

Fill in the grids so that every row, every column and every 3x3 box contains the digits 1 through 9. The sum of every pair of digits occupying same position must be greater than 8.

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

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

Tiles

In this part along with your answer sheet you will be provided with 3 envelopes, one each for sum sudoku, irregular sudoku and diagonal sudoku. Each envelope contains 9 pieces which can be placed together to form the corresponding sudoku. Tiles can be rotated, but the resulting numbers in the configuration must be upright.

Tiled Sum Sudoku

Place the 9 pieces in the sum sudoku envelop on the blank grid so as to form a standard sum sudoku. The sum of the digits within each dotted subarea equals the number given in the top left corner of that subarea. No digit can occur more than once in each subarea. Transfer the solution onto the blank grid..

Tiled Irregular Sudoku

Place the 9 pieces in the irregular sudoku envelop on the blank grid so as to forma standard irregular sudoku. Fill in the grid so that every row, every column and every outlined region of nine cells contains the digits 1 through 9. Transfer the solution onto the blank grid.

Tiled Diagonal Sudoku

Place the 9 pieces in the diagonal sudoku envelop on the blank grid so as to form a standard diagonal sudoku. Fill in the grid so that every row, every column, every diagonal and every 3x3 box contains the digits 1 through 9. Transfer the solution onto the blank grid..