Name:                                   Email id:

College:                                Contact:



# UN DOS TREZ
# Sudoku Competition

# Puzzle Booklet
# for
# Preliminary Round

# 19-Feb-2010 4:45PM
# 75 minutes

### In Association With
### www.logicmastersindia.com

## Rules of Sudoku

A typical Sudoku grid is of 9X9 cells with some digits already filled in. The remaining empty cells are to be filled in with digits from 1 through 9 so that following condition is met.

**Every digit from 1 through 9 has to appear exactly once in every row, every column, and every 3X3 box. No row or column or 3X3 box can have repeated digits.**

Also note that

- The existing digits can't be removed or erased.
- The grid has to be completely filled; otherwise it will be considered as incorrect. Writing 2 digits in one cell will also be considered as incorrect.
- All the Sudokus in this competition will have exactly one solution.
- Guess work is not needed to solve any Sudoku in this competition. We strongly advise you not to guess any digit.

## Points Table

| Sudoku | Points | Check1 | Check2 | Check3 |
|---|---|---|---|---|
| Classic Sudoku | 9 | | | |
| 6X6 Classic Sudoku | 3 | | | |
| Classic Sudoku | 7 | | | |
| 6X6 Classic Sudoku | 2 | | | |
| Diagonal Sudoku | 12 | | | |
| 6X6 Diagonal Sudoku | 4 | | | |
| Alphabet Sudoku | 13 | | | |
| 6X6 Alphabet Sudoku | 3 | | | |
| Odd Even Sudoku | 13 | | | |
| 6X6 Odd Even Sudoku | 2 | | | |
| Extra Region Sudoku | 14 | | | |
| 6X6 Extra Region Sudoku | 4 | | | |
| 6X6 Irregular Sudoku | 7 | | | |
| Trio Sudoku | 7 | | | |
| **Total** | **100** | | | |

## Classic Sudoku (9 + 3 points)

**Rule: Every digit from 1 through 9 has to appear exactly once in every row, every column, and every 3X3 box.**

**Rule: Every digit from 1 through 6 has to appear exactly once in every row, every column, and every 2X3 box.**

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

| | | | 5 | | |
|---|---|---|---|---|---|
| | | 3 | | | |
| | 2 | | 6 | | 1 |
| 1 | | 5 | | 2 | |
| | | | 1 | | |
| | | 2 | | | |

## Classic Sudoku (7 + 2 points)

**Rule: Every digit from 1 through 9 has to appear exactly once in every row, every column, and every 3X3 box.**

**Rule: Every digit from 1 through 6 has to appear exactly once in every row, every column, and every 2X3 box.**

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

| 1 | | | | 2 | |
|---|---|---|---|---|---|
| | 2 | | | | 3 |
| | | 3 | | | |
| | | | 4 | | |
| 2 | | | | 5 | |
| | 4 | | | | 6 |

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## Diagonal Sudoku (12 + 4 points)

**Rule: Every digit from 1 through 9 has to appear exactly once in every row, every column, <u>every diagonal</u>, and every 3X3 box. The diagonals are marked with circles in the grid.**

**Rule: Every digit from 1 through 6 has to appear exactly once in every row, every column, <u>every diagonal</u>, and every 2X3 box. The diagonals are marked with circles in the grid.**

## Alphabet Sudoku (13 + 3 points)

**Rule: Every letter from A through I has to appear exactly once in every row, every column, and every 3X3 box.**

**Every letter from A through F has to appear exactly once in every row, every column, and every 2X3 box.**

## Odd Even Sudoku (13 + 2 points)

**Rule:** Every digit from 1 through 9 has to appear exactly once in every row, every column, and every 3X3 box. There are some cells which are shaded. All shaded cells must contain even digits. All white cells must contain odd digits.

**Rule:** Every digit from 1 through 6 has to appear exactly once in every row, every column, and every 2X3 box. There are some cells which are shaded. All shaded cells must contain even digits. All white cells must contain odd digits.

## Extra Region Sudoku (14 + 4 points)

**Rule:** Every digit from 1 through 9 has to appear exactly once in every row, every column, <u>every extra region</u>, and every 3X3 box. The extra regions of 9 cells are shaded with different colors.
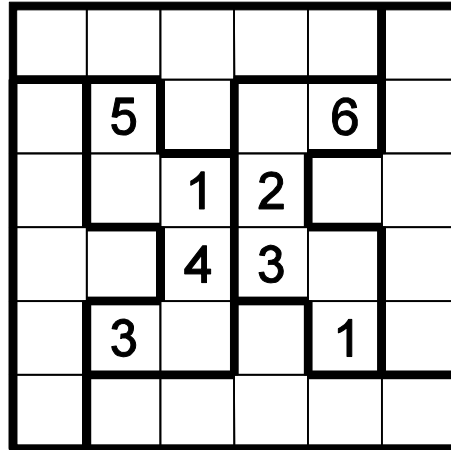
**Rule:** Every digit from 1 through 6 has to appear exactly once in every row, every column, <u>every extra region</u>, and every 2X3 box. The extra regions of 6 cells are shaded with different colors.

## Irregular Sudoku (7 points)

**Rule: Every digit from 1 through 6 has to appear exactly once in every row, every column, and <u>every outlined region</u>. The outlined regions have 6 cells each and are separated from each other by dark lines.**



## Trio Sudoku (7 points)

**Rule: Every digit from 1 through 9 has to appear exactly once in every row, every column, and every 3X3 box. Some cells will have circles inside and some others will have squares. Cells with circles must contain the digits 1, 2 and 3. Cells with squares must contain the 4, 5 and 6. Blank cells must contain the digits 7, 8 and 9.**



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