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# LMI Screen Test#2

20 puzzles – 35 minutes

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<http://logicmastersindia.com/ST/ST2.asp>

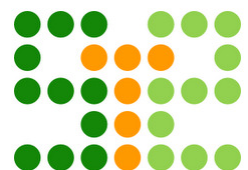
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01/02/03/04 November 2011

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Rohan Rao

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## About LMI Screen Test #2 (ST2)

Screen Tests are part of most, if not all, World Puzzle Championships. In Screen Tests, the puzzles are displayed on the screen; participants solve the puzzles by looking at the screen. Typically the answer to the screen test puzzle is a number or a letter or at max few words.

LMI Screen Test #2 is designed based on WPC Screen Test philosophy, to make screen tests available to more puzzle solvers, and also to help players have some practice before 20<sup>th</sup> WPC at Hungary.

Here are the rules of the test:

- Each puzzle will have a time limit, and it has to be solved within the specified time limit.
- There will not be any Puzzle Booklet to download. All the puzzles are to be solved on screen.
- Participants are allowed to draw images / grids on paper and answer on the screen. There is no provision to draw / type / take notes on screen.
- Each puzzle will have certain number of answer options. Participants have to select the answer option using 'mouse'. Typing is not allowed / needed in ST2.
- There will be 20 puzzles, and they are to be solved within 35 minutes.

## About this Guide

This guide explains how to participate in LMI Screen Test#2 (ST2).

It includes

- how the flash submission system works.
- details about bonus points and negative marking.
- Instructions or examples of puzzle types in ST2.
- Participants must visit the landing page <http://logicmastersindia.com/ST/ST2.asp> to familiarize themselves with the submission system before starting ST2.

## Viewing the Examples

- It is absolutely recommended that a serious participant view the examples and instructions before starting ST2.
- In the ST2 page, click on Examples button

A rectangular button with a thin orange border and a light gray background. The word "Examples" is written in a bold, dark blue, sans-serif font.

Check Instructions and Examples

- The instructions for 1<sup>st</sup> puzzle will be shown for 5 seconds. After 5 seconds, the example for 1<sup>st</sup> puzzle with answer options will appear. Each example will be shown for 60 seconds. You can click on any answer option and move to the next puzzle.
- If you don't select on any answer option or don't click on move to next puzzle; the 2<sup>nd</sup> puzzle instruction will appear after 60 seconds.
- This cycle will repeat for all 20 puzzles.

## About instructions

The instructions for example puzzles and test puzzles are absolutely same. If you have read the instructions while viewing examples, you don't need to read them again while taking the test.

- The instruction text may have couple of words underlined. The underlined words refer to the nature of answer key.
- Some puzzles may have part of instructions in small font. The text in small font is for completeness of instructions, and should be known to most solvers.



## Scoring System

- For each puzzle, your score will be calculated based on your submission time. If you submit the correct answer after T seconds, you will get (100 – T) points. So, if you submit an answer correctly after 53 seconds, you will get 47 points.

## Negative Points

- Since every puzzle will have a fixed number of options, it is possible that players will try to guess the answer if they can't solve it within the specified time.
- Negative points ranging from -20 to -40 will be given for incorrect submissions based on how many incorrect submissions for all the answer options have been submitted by all players.

## Suggestions

- Monitor – Since the puzzles will be projected on your computer monitor, it is important to have a decent size monitor to avoid scrolling.
- Full Screen – If your monitor is small, you should consider using Full Screen mode. The flash submission system has a Full Screen Button.
- Browser – Some browsers clutter the screen leaving less space for webpages. For the Screen Test, You should consider using Google Chrome or Internet Explorer 9 which leave maximum space for web pages.
- Mouse – Since all the answering is to be done with 'mouse', it is important that you have a 'mouse' which works nicely.

## Puzzle Types

PUZZLE	GRID SIZE
Super Maze	
Complete Set	
Knight Safe	6x6
Circle Sizes	
Equation Error	
Straight Line	10x10
Easy Draw	
Unlucky Word	
Arithmetic Box	
Careless Arrows	6x6
Number Search	6x6
Heaviest Bin	
Odd Shape	
Maximum Queens	6x6
Sudoku Pair	6x 4x4
Star Battle	6x 6x6
Tapa Letter	6x6
Correct Key	
Accurate Darts	
Grand Finale	

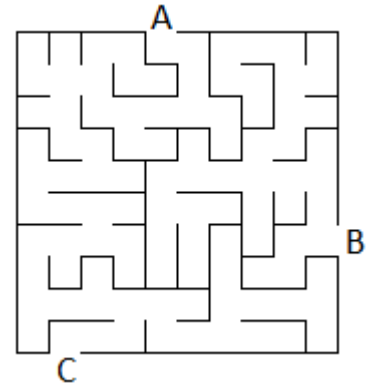
Time per puzzle	01:20
Break between puzzle	00:25
<b>Total Time (Maximum)</b>	<b>35:00</b>



## Super Maze

Which two alphabets can be connected?

The correct answer for the example grid is A-C



## Complete Set

Which row/column/diagonal contains each number 0 to 9?

Note: D1 is top-left to bottom-right diagonal. D2 is top-right to bottom-left diagonal.

The correct answer for the example grid is C4

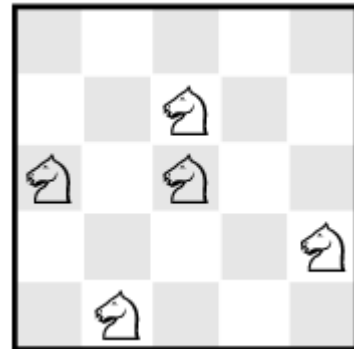
D1	C1	C2	C3	C4	C5	D2
R1	45	31	27	89	90	
R2	23	80	45	12	72	
R3	14	25	76	60	34	
R4	79	67	80	34	15	
R5	68	43	91	57	28	

## KnightSafe

How many unoccupied cells are not attacked by any knight?

A knight can move 2-steps in one direction, and 1-step side-way, always moving orthogonally. A Knight may jump over another knight.

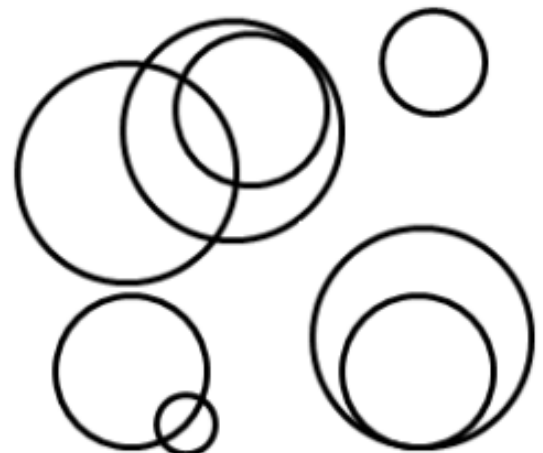
The correct answer for the example grid is 6



## Circle Sizes

How many different sizes of circles are given?

The correct answer for the example grid is 4



## Equation Error

How many equations are incorrect?

Equations read left-to-right and follow BODMAS rule.

The correct answer for the example grid is 1

$1 + 1 * 1 - 1 = 1$
$2 * 2 + 2 / 2 = 2$
$3 * 3 - 3 - 3 = 3$
$(4 - 4) * 4 + 4 = 4$

## Straight Line

Which triplet lies on a straight line passing through centres of cells?

The straight line could be horizontal / vertical / diagonal.

The correct answer for the example grid is S

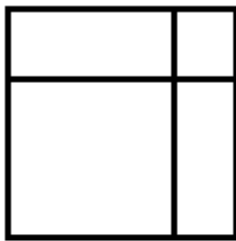
	S				M
T					
			M		L
	L	T	L	S	
M					S
					T

## Easy Draw

Which shape can be drawn on paper without lifting the pencil?

You can start and end at any vertex, but you cannot draw the same line more than once.

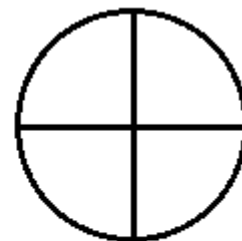
The correct answer for the example grid is B



A



B



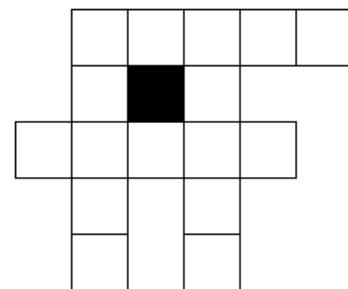
C

## Unlucky Word

Which word is NOT used in this standard crossword?

Words read across (left-to-right) and down (top-to-bottom).

The correct answer for the example grid is RACES



FRAME  
GIFTS  
GREED  
METAL  
RACES



## Arithmetic Box

Which number occurs in the shaded cell in this standard Arithmetic Box puzzle?

Each number 1~9 must be placed in the cells such that all equations are satisfied. Equations read left-right and top-bottom and follow BODMAS rule.

The correct answer for the example grid is 5

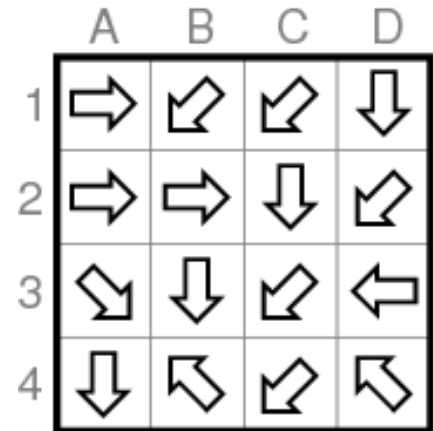
$$\begin{array}{r} \square + \square + \square = 24 \\ / \quad / \quad / \\ \square + \square + \square = 6 \\ - \quad + \quad \times \\ \square - \square + \square = 5 \\ = \quad = \quad = \\ 1 \quad 9 \quad 12 \end{array}$$

## Careless Arrows

Which cell is not pointed to by any arrow?

Arrows point to all cells in the corresponding direction.

The correct answer for the example grid is A4



## Number Search

How many of the given 3-digit numbers are not present in the grid?

Numbers can occur horizontally/vertically/diagonally, forward/backward.

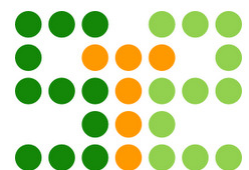
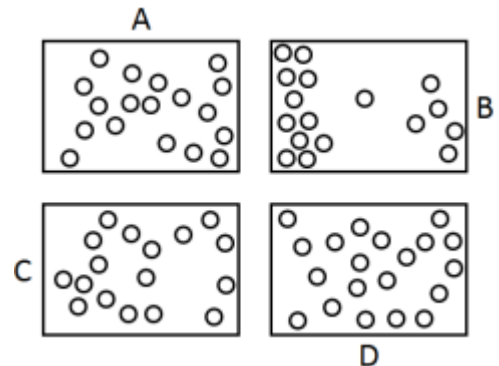
The correct answer for the example grid is 2

1	2	0	5	3	8	340
7	2	6	9	6	3	356
0	8	4	7	8	2	441
8	3	5	6	4	3	563
1	4	4	6	1	1	597
3	3	3	8	8	9	627

## Heaviest Bin

Which bin has maximum number of balls?

The correct answer for the example grid is D

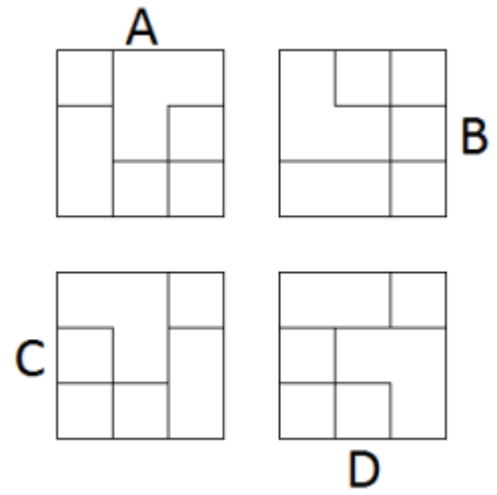


## Odd Shape

Which figure is different from the other three?

Rotation and Reflection account for the same shape.

The correct answer for the example grid is B

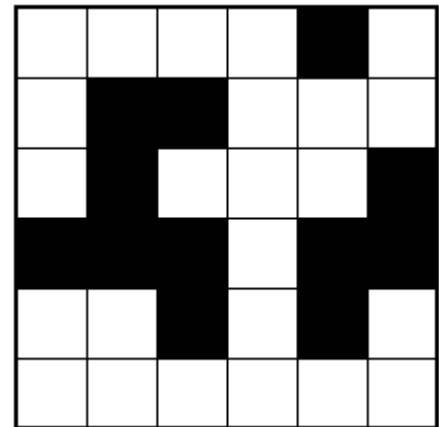


## Maximum Queens

What is the maximum number of chess queens that can be placed in empty cells such that no two queens attack each other?

A Queen cannot attack cells beyond a black cell in corresponding direction.

The correct answer for the example grid is 7

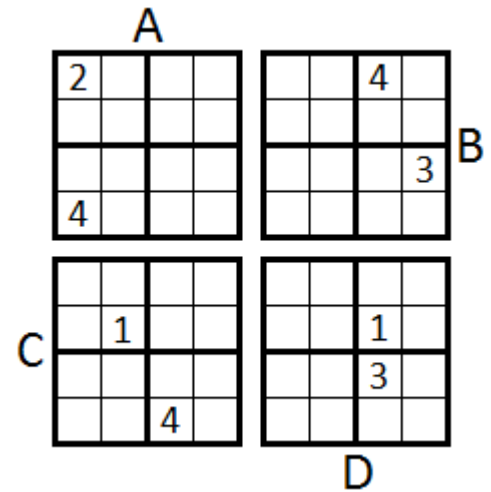


## Sudoku Pair

Which two grids can be combined to form a valid sudoku puzzle?

All givens of the two grids are superimposed into one grid. If two different numbers are given at the same position, then the two grids cannot be combined.

The correct answer for the example grid is A-D

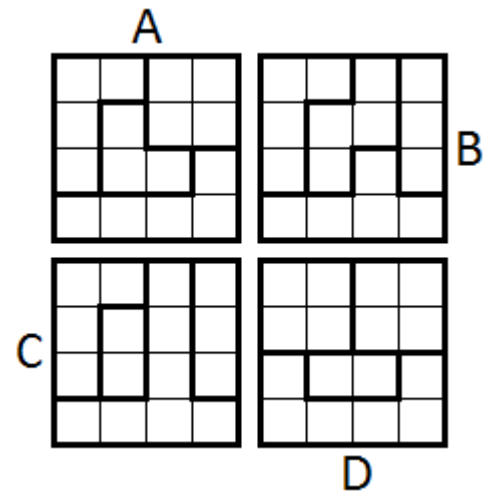


## Star Battle

Which grid is a valid Star-Battle grid?

One star is placed in every row, column and thick-outlined region. Stars cannot touch each other, not even diagonally.

The correct answer for the example grid is B

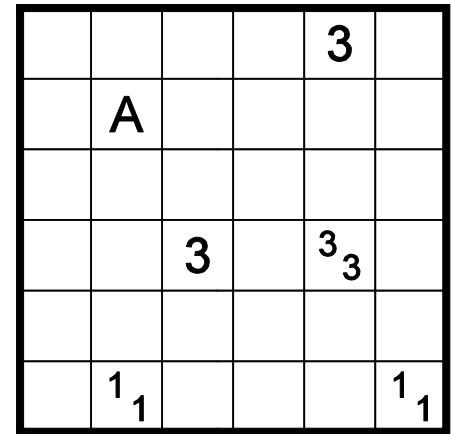


## Tapa Letter

Which single digit number is represented by the letter 'A' when the standard Tapa puzzle is solved?

Shade some cells without numbers black so that numbers in a cell indicate the length of black cell blocks on its neighbouring cells. If there is more than one number in a cell, there must be at least one white cell between the shaded cell blocks. No 2x2 square can contain all black cells.

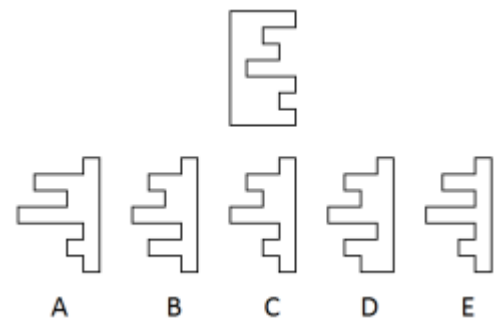
The correct answer for the example grid is 6



## Correct Key

Which key fits perfectly?

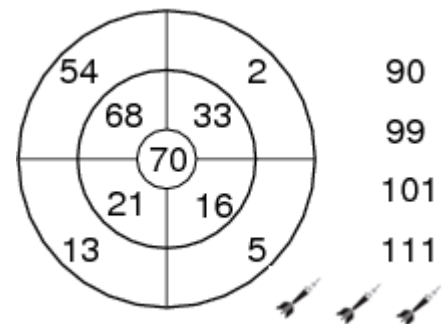
The correct answer for the example grid is C



## Accurate Darts

If three darts are thrown on the dart board and the scores are added, which of the following can be a valid total?

The correct answer for the example grid is 99



## Grand Finale

No Instructions. No Example.

