



WPF
SUDOKU/PUZZLE
GRAND PRIX
2015

WPF PUZZLE GP 2015 COMPETITION **BOOKLET**

ROUND **3**

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Organised by



WORLD PUZZLE FEDERATION



Submission Page: <http://www.gp.worldpuzzle.org/content/puzzle-gp>

Points:

1.	Tapa	5	19.	Magic Summer	2
2.	Tapa	13	20.	Magic Summer	7
3.	Tapa	13	21.	Magic Summer	6
4.	Tapa	18	22.	Magic Summer	11
5.	Tapa	33	23.	Magic Summer	23
6.	Tapa	45	24.	Magic Summer	39
7.	Skyscrapers	7	25.	Pentominous	4
8.	Skyscrapers	5	26.	Pentominous	8
9.	Skyscrapers	23	27.	Pentominous	6
10.	Skyscrapers	17	28.	Pentominous	5
11.	Skyscrapers	18	29.	Pentominous	11
12.	Skyscrapers	41	30.	Pentominous	16
13.	Scrabble	7	31.	Castle Wall	4
14.	Scrabble	4	32.	Castle Wall	12
15.	Scrabble	9	33.	Castle Wall	12
16.	Scrabble	9	34.	Castle Wall	40
17.	Scrabble	10	35.	Castle Wall	37
18.	Scrabble	15	36.	Castle Wall	38
			37.	Find the Differences	10+4+13
TOTAL:					600

General Notes: The last puzzle, Find the Differences, has variable scoring. If you find all ten differences you will score 27 points. If you find nine of the ten differences you will score 13 points. Otherwise you will score 1 point per difference found.



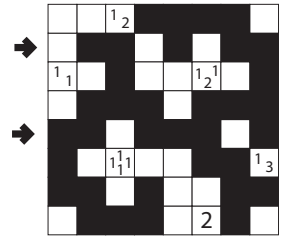
1-4. Tapa (5, 13, 13, 18 points)

Shade some empty cells black (cells with numbers cannot be shaded). All black cells connect along edges to create a single connected region. (It is permissible for the region to touch itself at a corner, but touching at a corner does not connect the region.) No 2x2 group of squares can be entirely shaded black.

Numbers in a cell indicate the lengths of contiguous black cell groups along the "ring" of (up to) 8 cells touching that cell. (If there is more than one number in a cell, then there must be at least one white (unshaded) cell between the black cell groups.) The numbers are given in *no particular order*. As a special case, if the number given in a cell is a zero (0), it means that none of the cells around that cell may be shaded black.

Answer: For each designated row, enter the length in cells of each of the shaded segments from left to right. Use only the last digit for two-digit numbers; e.g., use '0' for a segment of size 10. If there are no black cells in the row, enter a single digit '0'.

Example Answer: 212, 231



1a →

	5				2	
	2 ₃				3 ₃	
	2 ₂				1 ₃	

1b →

2a →

2b →

					4	
	1 ¹ ₁			2 ₂		
			1 ² ₂		2 ₃	
	1 ¹ ₁					

3a →

3b →

		1 ₁	2			1 ¹ ₂	
						1 ¹ ₁	
				3 ₃			
		1 ₄					
		1 ¹ ₂			2 ₃	1 ² ₂	

4a →

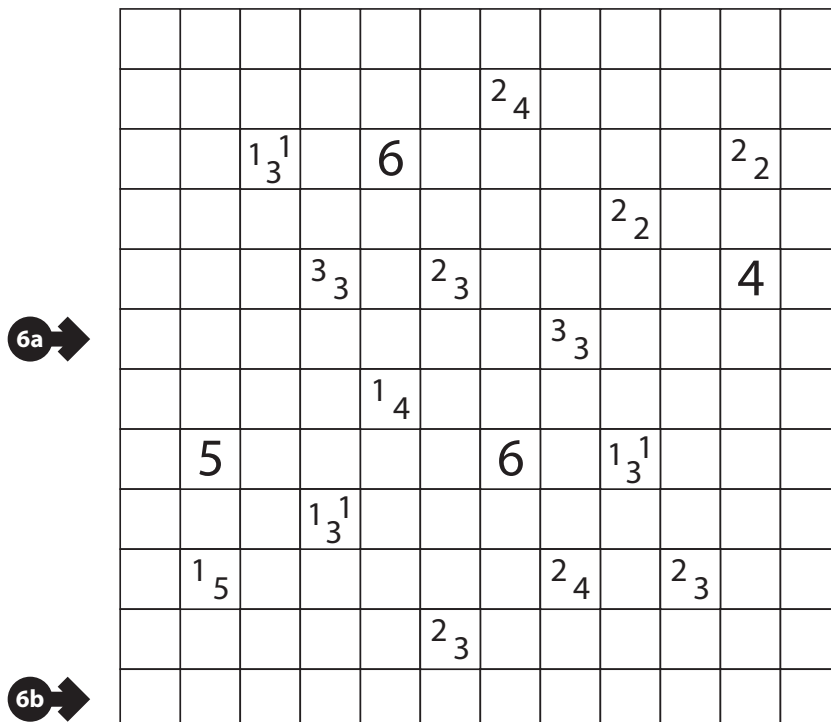
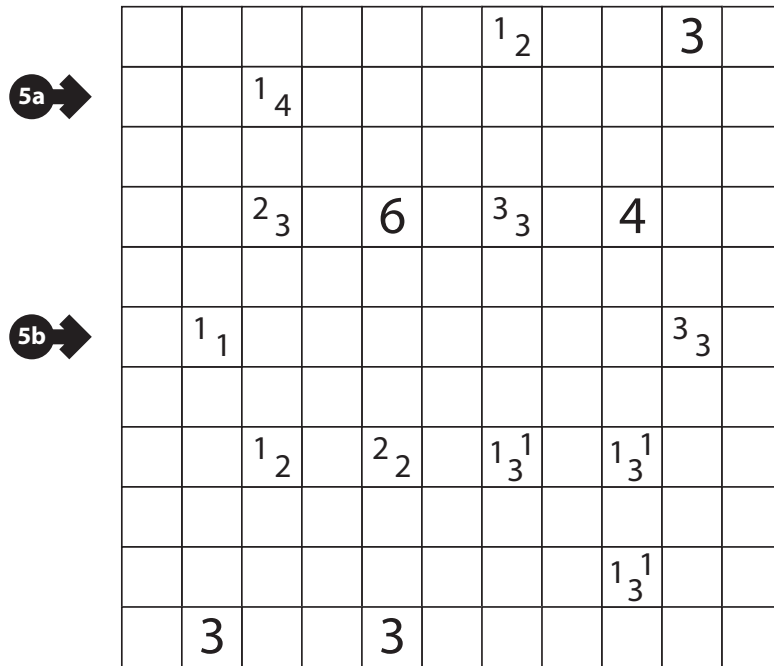
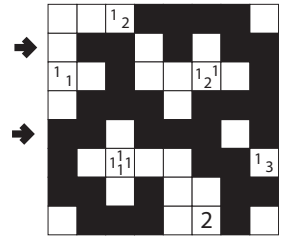
4b →

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

5-6. Tapa (33, 45 points)

Answer: For each designated row, enter the length in cells of each of the shaded segments from left to right. Use only the last digit for two-digit numbers; e.g., use '0' for a segment of size 10. If there are no black cells in the row, enter a single digit '0'.

Example Answer: 212, 231



**13-15. Scrabble (7, 4, 9 points)**

Put at most one letter into each cell so that the given words can be read either across (left-to-right) or down (top-to-bottom) in consecutive cells in the grid. Every word must appear in the grid exactly once, and no other words may appear in the grid (that is, if two cells are filled and are adjacent, then there must be a word that uses both of them). Every word must have either a blank cell or the edge of the grid before and after it. All letters must be (orthogonally) connected in a single group.

Each grid has a "special letter": every instance of that special letter is already placed for you (so you may not put that letter into any more cells).

Answer: For each designated row, enter its contents from left to right, ignoring any blank cells. If all cells in the row are blank, enter a single letter 'X'.

Example Answer: CYPRUSO, ONMUO, AUR, GA

M								
A		S		L				M
C	Y	P	R	U	S			O
E		A		X				L
D		I	C	E	L	A	N	D
O		N		M		U		O
N				B		S		V
I		C	R	O	A	T	I	A
A				U		R		
	G	E	O	R	G	I	A	
				G		A		

					R
				R	
					R

DO
GO
OF
OR
DID
FIX
RAG
RAT

PITS

TYPE

DEPART

						N

NO

DIM

MAY

WON

ZIP

TEAR

HELLO

ZEBRA

BOLDLY

AWARDED

					O		
						O	
			O				

NO

ON

TO

WE

GOD

OWL

DATA

STIR

LEAST

MUSIC

SKULL

RESTLESS

SLANTING



16-18. Scrabble (9, 10, 15 points)

Answer: For each designated row, enter its contents from left to right, ignoring any blank cells. If all cells in the row are blank, enter a single letter 'x'.

Example Answer: CYPRUSO, ONMUO, AUR, GA

M								
A		S		L				M
C	Y	P	R	U	S			O
E		A		X				L
D		I	C	E	L	A	N	D
O		N		M		U		O
N				B		S		V
I		C	R	O	A	T	I	A
A				U		R		
	G	E	O	R	G	I	A	
				G		A		

16a →

								S
	S			S				
		S						
						S		

IT NEST
OF DEBTS
TO ROYAL
ACT SWING
EGG WASTE
ILL SEASON
LIE BONFIRES
SHE DISARMING
SKI REWARDING

16b →

17a →

						P		
	P					P		
				P				

DO
SEE
SUM
CLASS
APPEAL
PICNIC
OUTWARD
DEMOCRATIC
INCOMPLETE
INDIRECTLY

17b →

18a →

				E				
								E
				E				
				E				
				E				E

BE LAMB
TO SIMPLE
AGO BISCUIT
CAR ISLANDS
CUT BILLIONS
DIM MINERALS
DRY SOCIETIES
NET CONDITIONS
ODD COLLECTIONS
OWL COMBINATION
SUN

18b →

A 6x6 grid is shown. The columns are labeled at the bottom as 2517, 159, and 366. The rows are labeled on the right as 177, 3246, and 474. On the left side, there are two arrows pointing to the grid: '22a' points to the third row, and '22b' points to the sixth row. Above the grid, the text '[1-5]' is written.

**23-24. Magic Summer (23, 39 points)**

Answer: For each designated row, enter its contents. Use "x" for empty cells.

Example Answer: 1x4x32, 41x2x3

[1-4]

→	1		4		3	2	37
	3	2		1	4		46
		4	2	3		1	424
	2		3		1	4	19
→	4	1		2		3	46
		3	1	4	2		3142
	37	37	28	37	37	145	

[1-4]

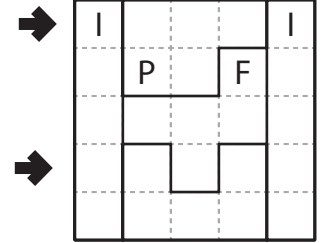
→							145
23a →							46
							19
23b →							
	244	73		55	28		

[1-5]

							51
							555
24a →							
24b →							
							321
							357
	375		69	474	87		

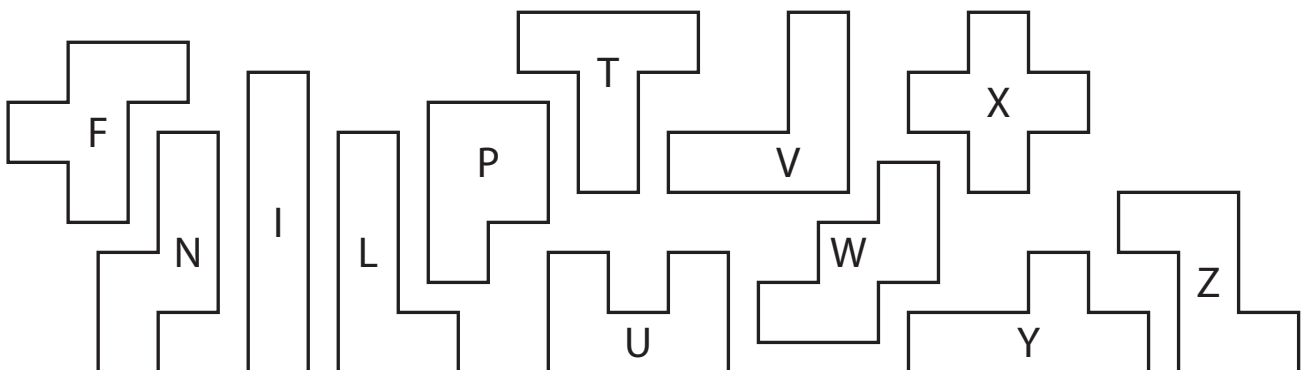
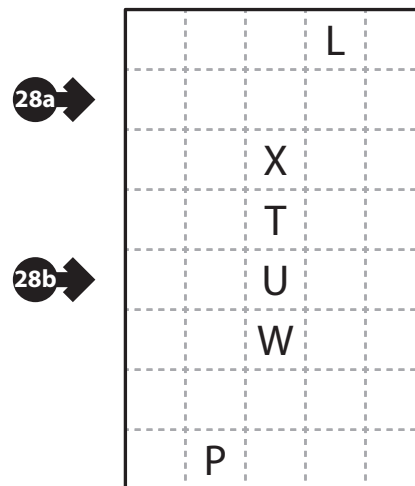
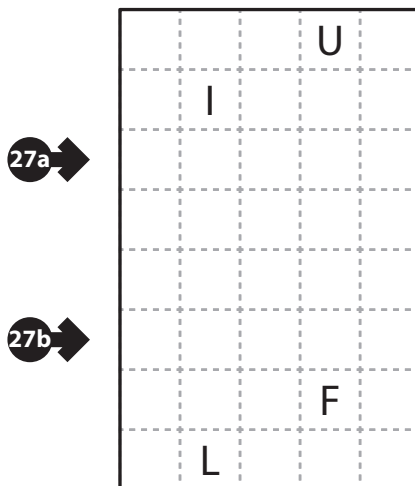
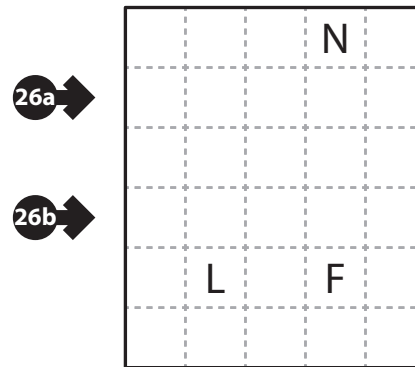
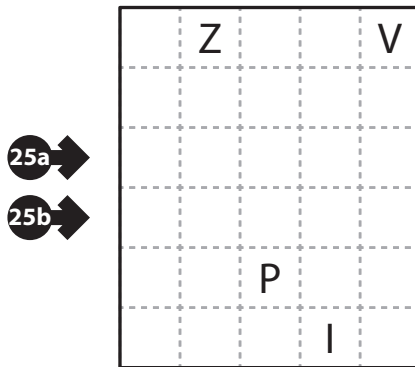
**25-28. Pentominous (4, 8, 6, 5 points)**

Divide the grid into pentominoes such that every cell in the grid is part of exactly one pentomino. Pentominoes of the same shape (rotations and reflections of a pentomino count as the same shape) cannot touch each other along an edge (but they may touch diagonally). Some letters are given in the grid. Each letter must be part of a pentomino with that letter's shape. It is permissible for a pentomino to contain more than one letter. (It is possible for some pentomino shapes to never appear in the grid, or more than once.)



Answer: For each designated row, enter the letter for the pentomino that each cell belongs to, from left to right.

Example Answer: IPPPI, IUFUI

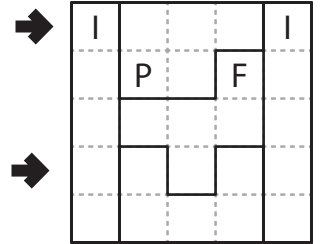




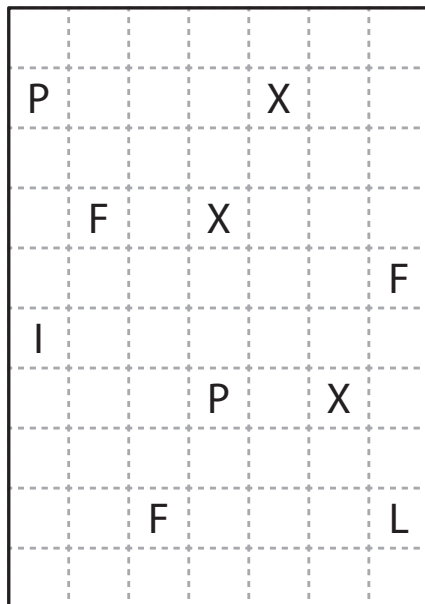
29-30. Pentominous (11, 16 points)

Answer: For each designated row, enter the letter for the pentomino that each cell belongs to, from left to right.

Example Answer: IPPPI, IUFUI



29a →

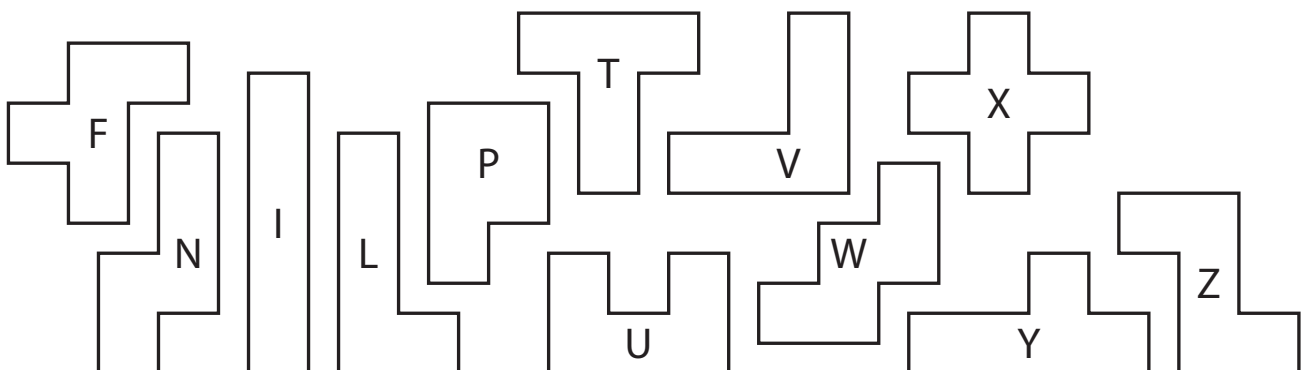
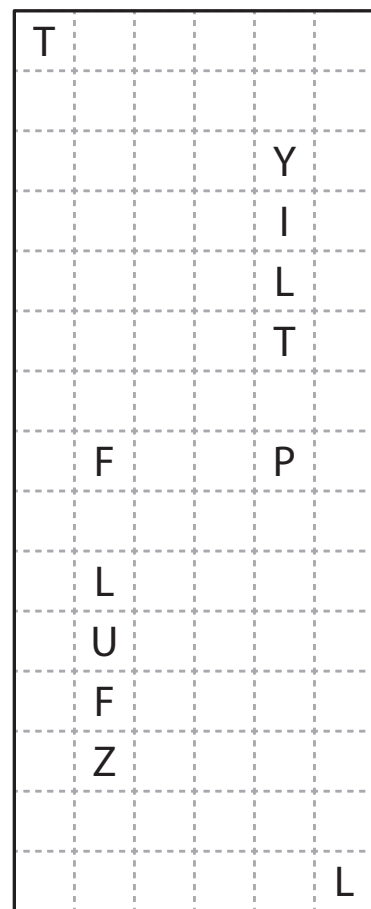


29b →

30a →

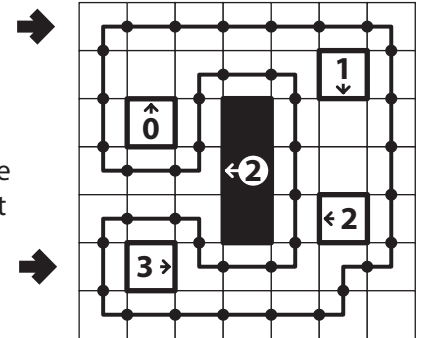
30b →

30c →



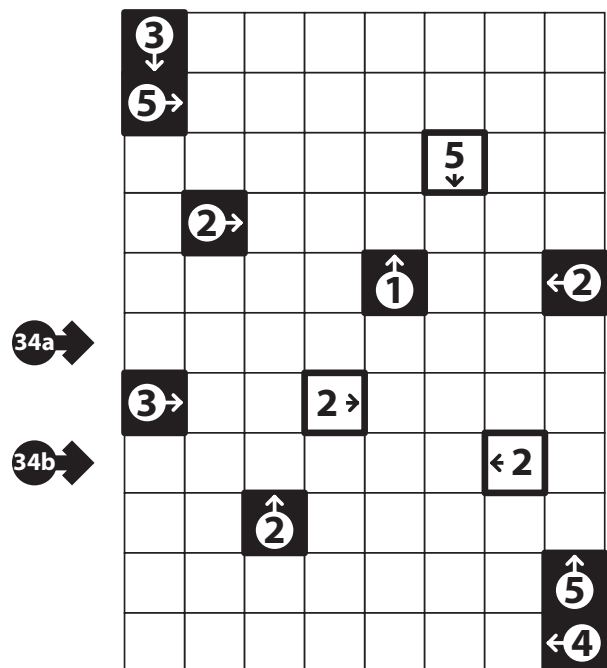
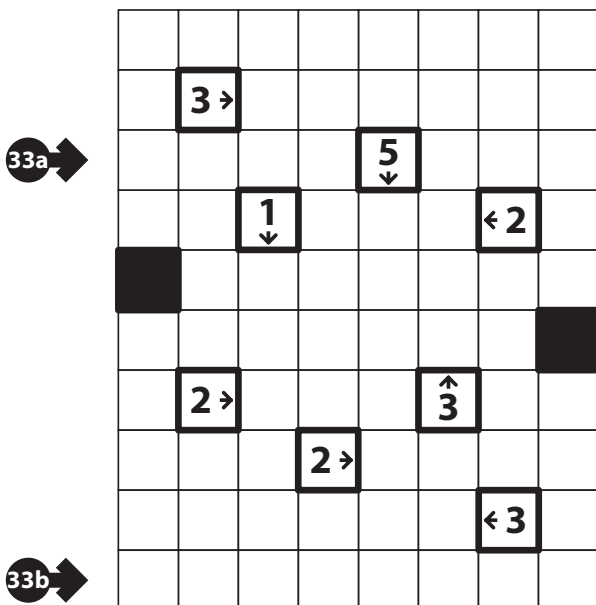
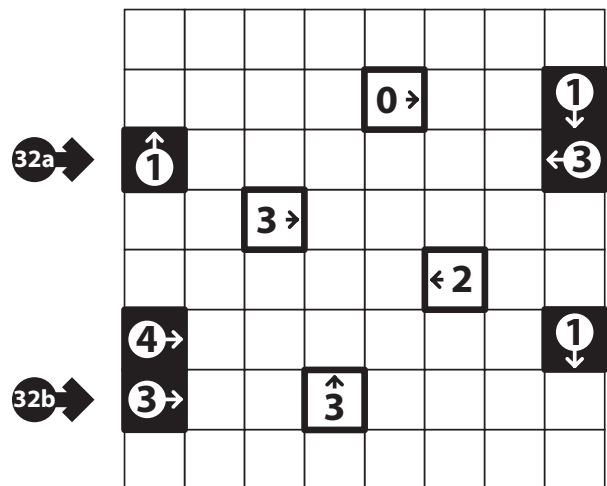
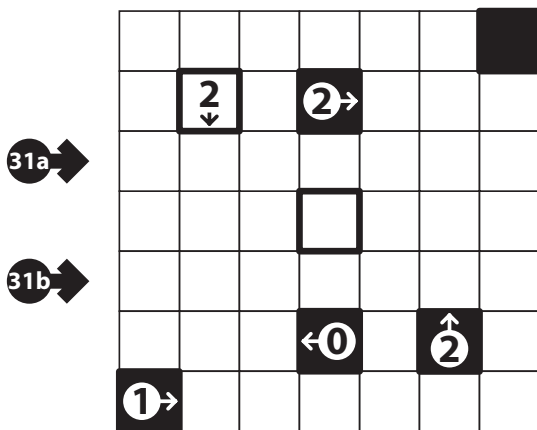
**31-34. Castle Wall (4, 12, 12, 40 points)**

Draw a single closed loop passing through some empty cells in the grid. The loop connects centers of adjacent cells, makes only right-angle turns or goes straight, and does not intersect or cross itself. The grid contains some bordered or black cells that cannot be part of the loop. Bordered cells must be inside the loop; black cells must be outside the loop. Numbers and arrows refer to the total sum of the lengths of straight loop segments along the given direction. (An equivalent way to understand these values is by putting a dot each place the loop crosses a cell border. Each numbered arrow then points to that number of dots.)



Answer: For each designated row, enter its contents, from left to right. Use 'I' for a cell where the loop goes straight, use 'L' for a cell where the loop makes a turn, and use 'X' for cells that are not part of the loop.

Example Answer: LIIIIIL, IXLILL



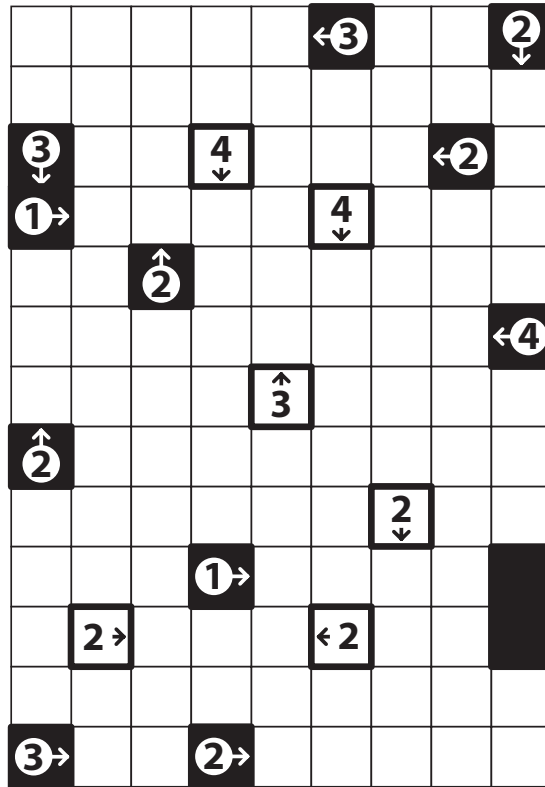


35-36. Castle Wall (37, 38 points)

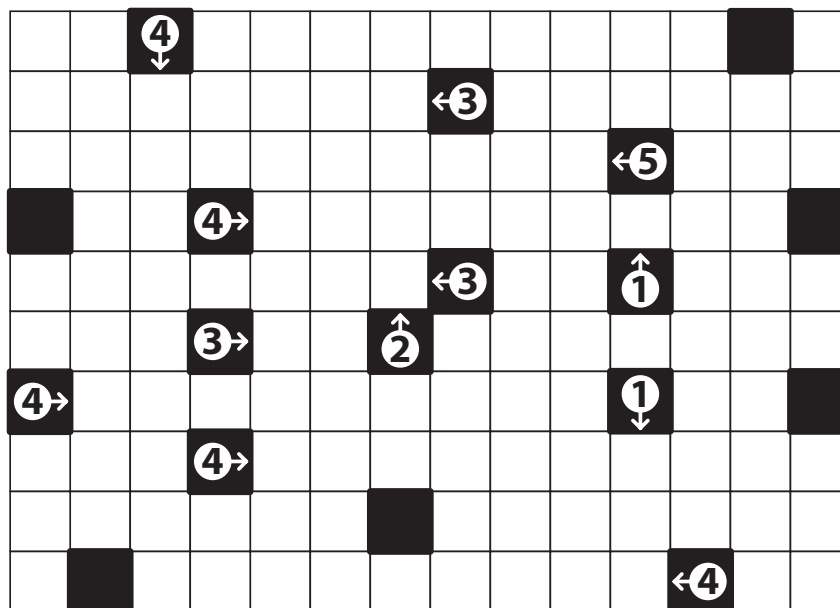
Answer: For each designated row, enter its contents, from left to right. Use 'I' for a cell where the loop goes straight, use 'L' for a cell where the loop makes a turn, and use 'X' for cells that are not part of the loop.

Example Answer: LIIIIIL, IXLILL

35a →

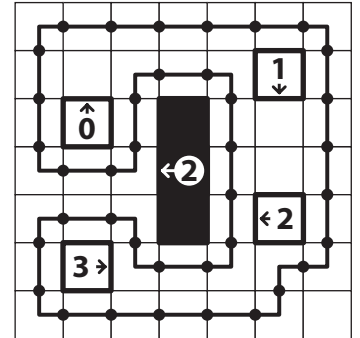


35b →



36a →

36b →





37. Find the Differences (1 point each for 10 points + 4 points bonus for finding at least nine differences + 13 points bonus for finding all differences = maximum 27 points)

Find the ten differences between the picture and its reflection. (The example has three differences, not ten. The competition puzzle will be in greyscale.)

You will receive bonus points if you find nine of the ten differences, with additional points if you find all ten.

The differences are clearly intentional, such as things that have disappeared, moved, changed size, shape, or orientation. Ignore the grid lines and subtle differences due to graphic anomalies or overall distortion. Each grid square will contain at most one difference.

Answer: Enter the coordinates, row first (such as 'A1') for each difference found. You do not need to enter them in any particular order. (Do not put separating symbols, such as spaces or commas, between the coordinates.)

Example Answer: A1E3B2

