



Tapa Variations Contest

Mar 2011
week 3

TAPA RULE: Paint some cells black to create a continuous wall. Number/s 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 black cell blocks. Painted cells cannot form a 2x2 square or larger. There are no wall segments on cells containing numbers.

Puzzle booklet will not contain examples.

1. Previously on TVC

Mastermind Tapa (38+44+52+56 points)

Clues given in between the grids represent the number of blackened cells in common (regarding location) for the corresponding rows/columns.

Any first completed grid is 38 points, and so on.

1					
				7	
			2 3		
		1 2			
	6				
					2

0	3				
4					
2			2 2		
3		3			
1					
3					2

▼ A ▼ B

▼ A ▼ B

1					
				7	
			2 3		
		1 2			
	6				
					2

0	3				
4					
2			2 2		
3		3			
1					
3					2

Answer format: Write the lengths of separate blackened cell blocks in the marked rows/columns. The answer for the example would be: Grid left: 31, 14; Grid right: 12, 2

2. Tapa Mine (21+49 points)

The wall contains the given number of mines on all dead-end cells. Dead-end cells are the cells that are adjacent to only one blackened cell.

6 mines

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

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

A **B**

Answer format: Write the lengths of separate blackened cell blocks in the marked rows. The answer for the example would be: 111, 11

3. Tapa Scrabble (28+56 points)

Tapa consists of letters and all given words should be read on the wall, either from left to right or top to bottom. There cannot exist any words on the grid that is not on the given list.

ICE
OGRE
PEAR
CHERRY
GARLIC
RADISH
APRICOT

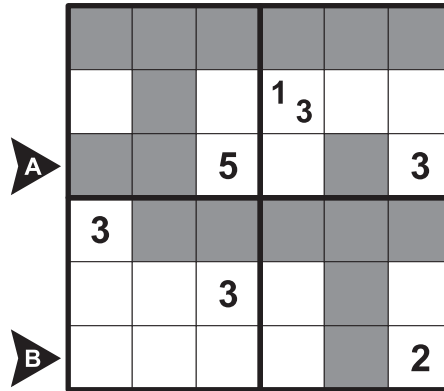
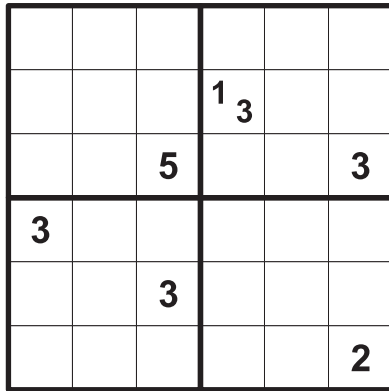
	2 ₂						
		5			1 ₃		
	1 ₄						1 ₂

							I
	G	A	R	L	I	C	
A	P	2 ₂		A			E
	E		5	D		1 ₃	
	A	P	R	I	C	O	T
	R	1 ₄		S		G	1 ₂
B			C	H	E	R	Y
						E	

Answer format: Write the contents of the marked rows. Use - for empty cells and clues. The answer for the example would be: P--A--E-, --CHERRY

4. Progressive Tapa (66 points)

Each outlined region represents a different phase. One of these regions is the starting phase. The second phase includes all the blackened cells in the starting phase, and some more blackened cells. This rule applies for every next phase; each phase contains more blackened cells than the previous one.



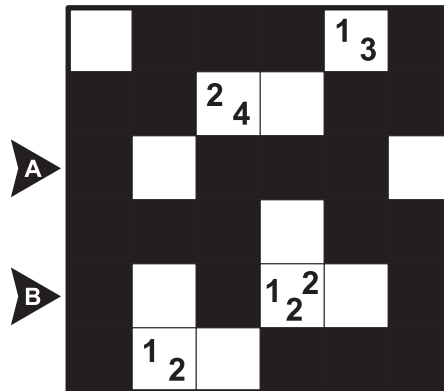
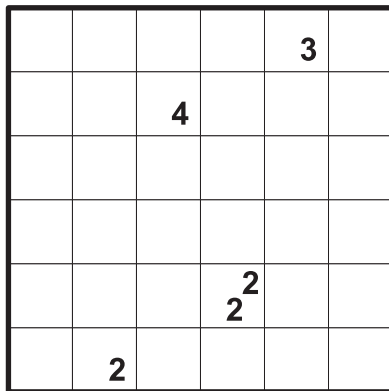
Phases in increasing order

4	2
1	3

Answer format: Write the lengths of separate blackened cell blocks in the marked rows. The answer for the example would be: 21, 1

5. Tapa Restoration (24 points)

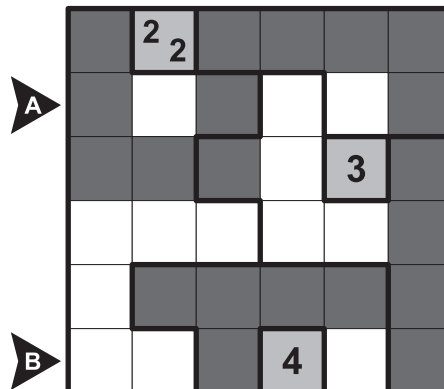
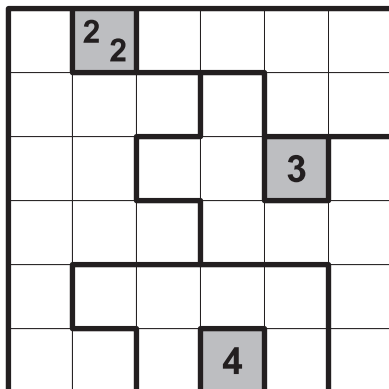
Only one digit (nonzero) is removed from each clue cell. Restore the digits and solve the puzzle. Given digits do not indicate any order; restored digits may be smaller, larger or equal.



Answer format: Write the lengths of separate blackened cell blocks in the marked rows. The answer for the example would be: 13, 111

6. Make Room For Tapa (69+108 points)

Each outlined region should contain exactly five blackened cells.



Answer format: Write the lengths of separate blackened cell blocks in the marked rows. The answer for the example would be: 111, 11

7. Pentapa (76+143 points)

The wall should only be made up of the given pentominoes without overlapping. Pentominoes may be rotated and/or mirrored.

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

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



Answer format: Write the contents of the marked rows. Use the corresponding letters for the pentominoes, - for empty cells and clues. The answer for the example would be: -FFWW----L, XXX--ZZTUU

8. Hungarian Tapa (53+124 points)

The wall should only be made up of the digits from the given range. Each row and column should contain the digits from the given range exactly once. Tapa clues indicate the sums of the separate blackened cell blocks in the neighbouring cells.

(1-5)

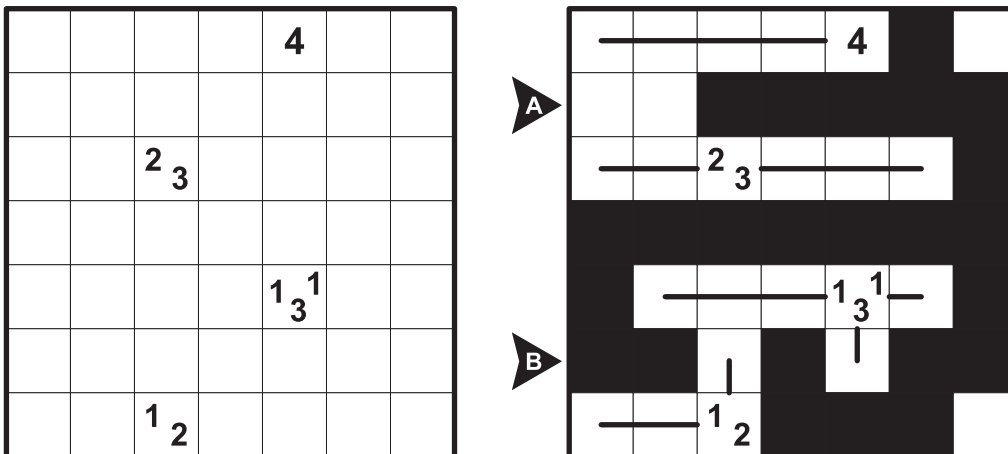
			13				5
	9 ₁₀						
		1 ₇			2 ₉ ⁸		
		1 ₃ ²					
			6 ₆				
3 ₆							
					8		

	5	4	13	3	2	1	5
5	9 ₁₀	1	3	2		4	
3	1	1 ₇	2		2 ₉ ⁸	5	4
4		1 ₃ ²	1	5	3		2
1	2		6 ₆		4	3	5
	3	2	4		5		1
3 ₆		5		4	1	2	3
2	4	3	5	1	8		

Answer format: Write the contents of the marked rows. Use digits for the wall, - for empty cells and clues. The answer for the example would be: -54-321-, 12---435

9. Tapa Lines (28 points)

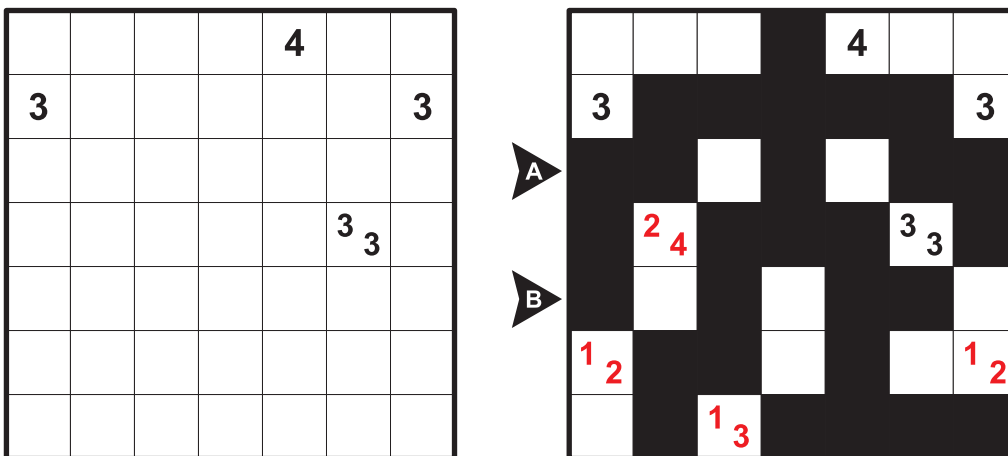
Every Tapa clue is also a "Four Winds" clue: Draw straight lines from clue cells; only one line for each digit in a cell. Digits represent the lengths of the lines in unit squares. Lines cannot overlap/intersect each other, blackened cells or clues.



Answer format: Write the lengths of separate blackened cell blocks in the marked rows. The answer for the example would be: 5, 212

10. Peers Tapa (34 points)

Each given clue cell has a peer, symmetrical to the center of the grid. The sums of digits should be equal for each pair, but two peers cannot be exactly the same. Find the missing peers and solve the puzzle.



Answer format: Write the lengths of separate blackened cell blocks in the marked row/column. The answer for the example would be: 212, 112

Some puzzle ideas are obtained as follows:

- Mastermind Tapa from Deb Mohanty,
- Tapa Mine, Tapa Scrabble and Hungarian Tapa from Zoltan Horvath,
- Progressive Tapa and Tapa Lines from Rohan Rao,
- Tapa Restoration from Anurag Sahay,
- Make Room for Tapa from Thomas Snyder,
- Pentapa from Vladimir Portugalov.