

TAPA VARIATIONS CONTEST



Week 3

17th - 19th March 2012

75 minutes + 5 minutes extra time

Penalty points: 8 per minute

Time bonus: 10 per minute

Puzzles by: Serkan Yürekli

TVC XI

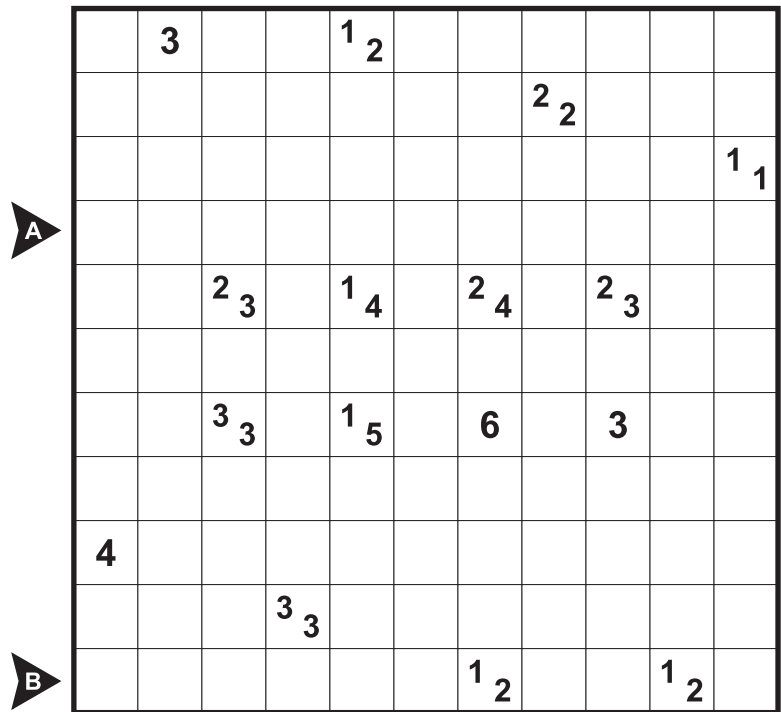
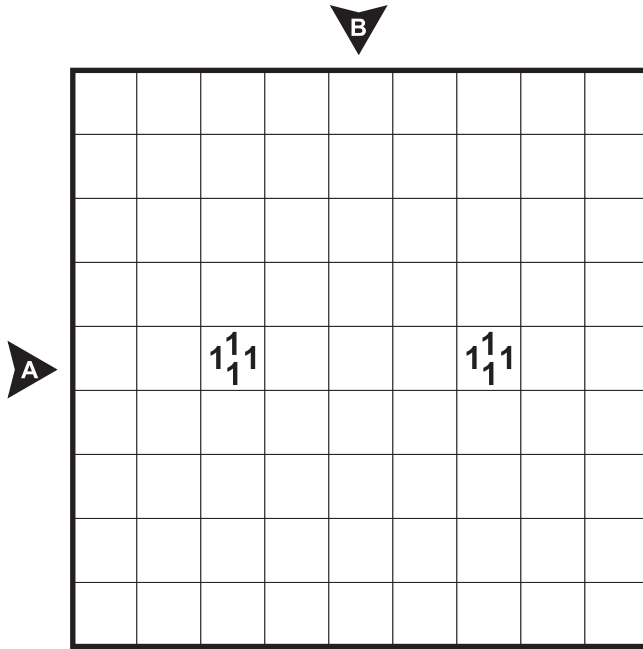
1. Previously on TVC Combined Tapa	154 points
2. Mad Max Tapa	13 + 136 points
3. Fractional Tapa	55 points
4. Dissected Tapa	63 points
5. Visionary Tapa	138 points
6. Full Tapa	146 points
7. Modern Tapa	43 points
8. Power of Tapa	192 points
9. Tapa Balance	47 points
10. Meiosis Tapa	64 points

Thanks to Ulrich Voigt and Gülce Özkütük Yürekli



2. Mad Max Tapa (13 + 136 points)

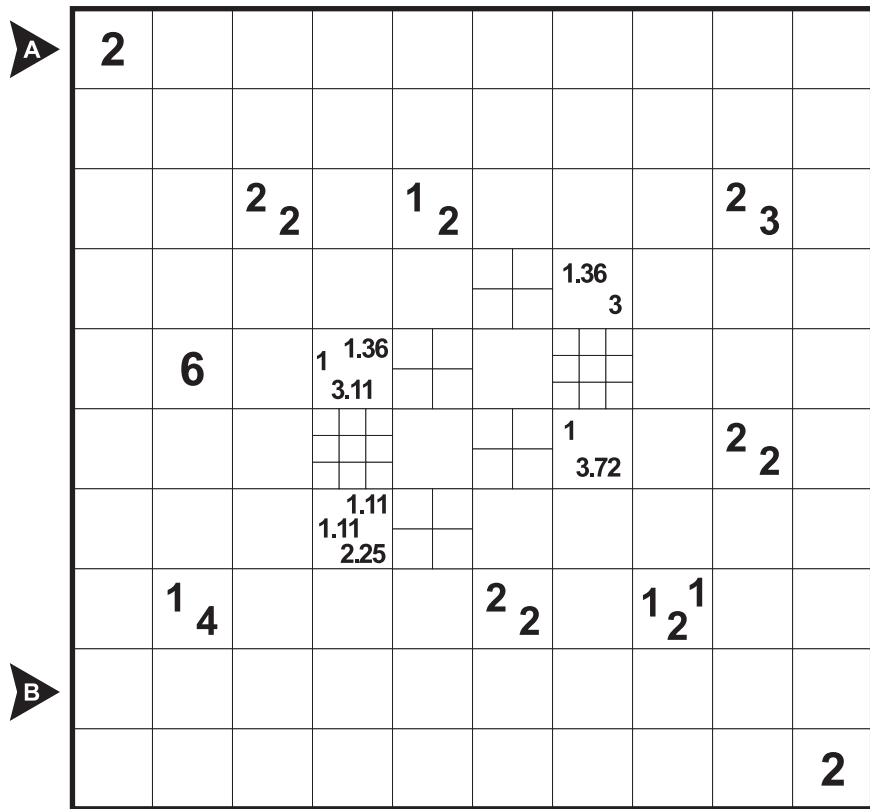
Paint the maximum number of cells black within the restrictions of Tapa rules.





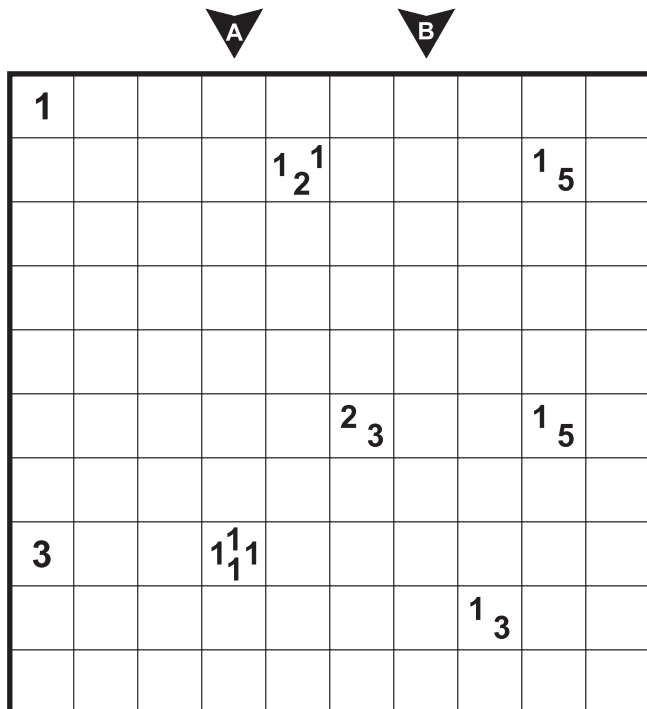
3. Fractional Tapa (55 points)

Some of the unit cells are divided into smaller squares. Number/s in a cell indicate/s the total area of each distinct group of painted squares on its neighbouring squares, rounded to two decimal places. Nowhere in the grid can a vertex (any corner of a square of any size) be fully surrounded by painted squares.



4. Dissected Tapa (63 points)

Form two congruent figures: Painted cells and the remaining area. Two figures are congruent if they have the same size and shape, with some possible rotation and/or reflection.





5. Visionary Tapa (138 points)

Clue cells contain two sets of numbers. Black ones are regular Tapa clues for the immediate neighbours, whereas the other ones supply clues for the secondary neighbours — those that are one-unit apart from the clue cell.

B

A

							1 4 <small>1₁1₁1</small>				
		3 3 <small>2₂2₂2₂</small>									
									1 2 2 <small>1₁1₁2</small>		
			2 3 <small>1₅5</small>								
							2 2 <small>1₄4</small>				
	2 3 <small>1₁2₄</small>										
								2 2 <small>3₃3₃3</small>			
				1 1 2 <small>2₂2₂2</small>							

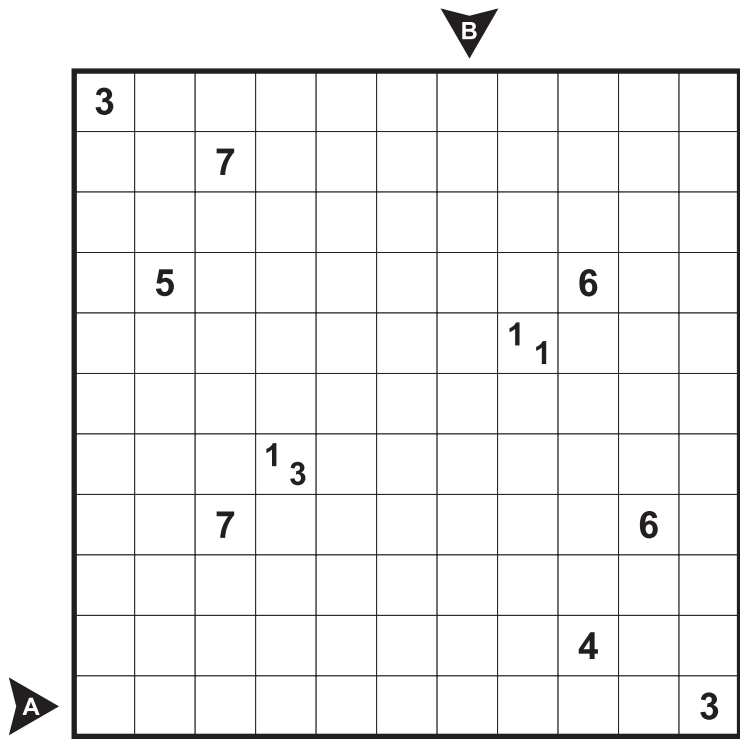


6. Full Tapa (146 points)

Enter the given words once each into the entirety of the empty cells. Words must be written either across or down, and all words formed by consecutive letters in the grid must appear in the word list.

Note: Actual puzzle will use some words from a famous song. Only the highlighted words in the lyrics will be used for the puzzle.

Tapa Variations Contest - Mar 2012 - week 3



Semolina pilchard
 CLIMBING up the Eiffel TOWER
 ELEMENTARY penguin singing HARE Krishna
 MAN, you should have seen them kicking
 EDGAR Allan Poe

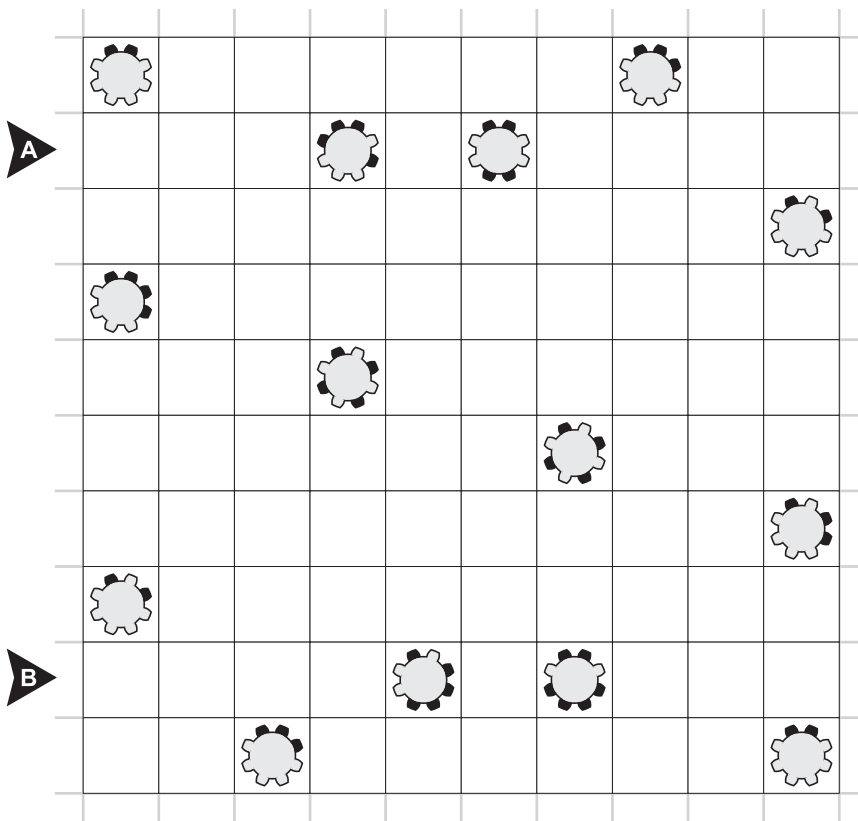
I am THE eggman
 They ARE the eggmen
 I am the WALRUS
 GOO goo g' joob

(The Beatles - I Am The Walrus)



7. Modern Tapa (43 points)

Each clue gives the length of each distinct group of painted cells on its neighbours, as well as each group of empty ones, in an exact circular order (without reflection), with the precondition that all imaginary cells outside of the grid are empty.





8. Power of Tapa (192 points)

For each clue cell, take the set of numbers either as separately (hence giving a multi-number clue), or as input values to the exponentiation (hence giving a single-number clue).

Note: 0^0 is undefined and won't be used. Otherwise, $a^0=1$; $1^b=1$; $0^c=0$; $d^1=d$; $e^f^g=e^{f^g}$.

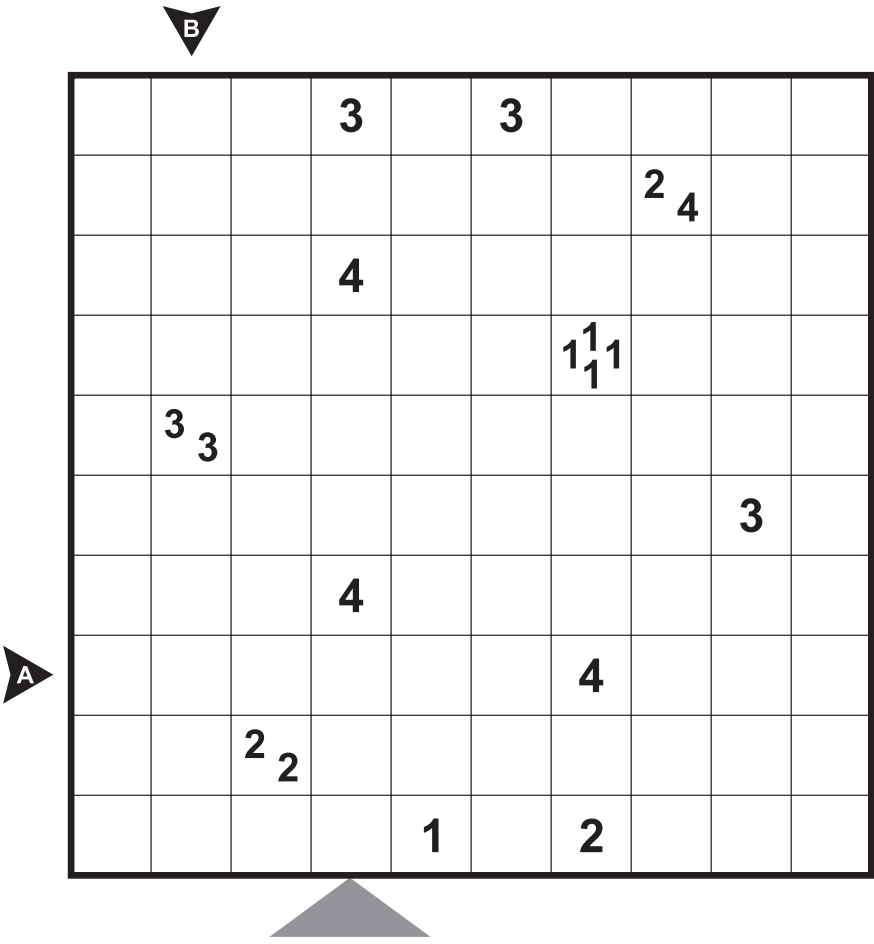
							2^2						
				2^3						2^0		1^5	
	1^5							2^3					
				2^2			2^0			3^0^3			
3^0												2^3	
						5^1		6^0					
		7^0		3^0^1						2^2		2^3	
						2^1^2		3^1					
		1^2^1											1^2
				1^5			2^2^1			7^0			
						5^1						1^5	
	2^3			4^0						3^0^3			
							3^1						

Tapa Variations Contest - Mar 2012 - week 3



9. Tapa Balance (47 points)

The grid should be in balance, with regard to the number of blackened cells (ignore any momentum). Clues and white cells are considered weightless.





10. Meiosis Tapa (64 points)

Some of the given clue digits may be divided in half. This may happen in two different ways: Digit splits into two and creates two identical digits; or digit is only divided by two and results in a single number. Multi-digit clue cells may have divided and undivided digits together. If a digit divides in half and results in a decimal, each digit in the result counts as a new Tapa clue (e.g. if the original clue is 3, it becomes 1-5 after the division). Resulting digit of a division cannot be divided again.

				8			6			6
	8	8								
	8			6		8			8	
	8				6				6	
	6			8		8			8	
								6	6	
6			8			8				