

TRIANGON PUZZLES

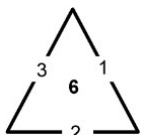


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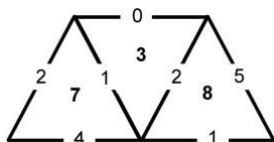
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Solving Trigons - Hints and Techniques

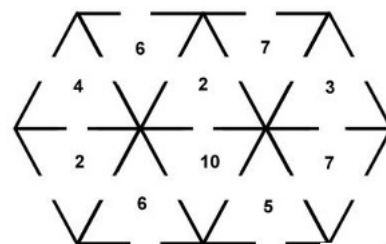


A set of triangular dominoes is put together in various shapes and sizes. There is a number on each side of the triangle and a central number which is the sum of the side numbers.



Where two sides meet, THE NUMBER IS THE SAME.
To save writing the number twice a gap is left in the sides.

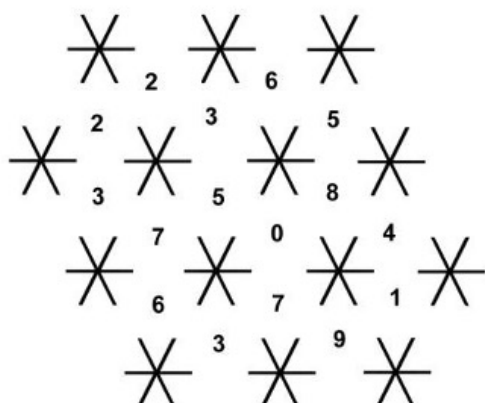
The problem is that you are only presented with the central number and you must use logic to determine the side numbers.



0	000
1	001
2	002 011
3	003 012 111
4	004 013 022 112
5	014 023 113 122
6	024 033 114 123 222
7	034 124 133 223
8	044 134 224 233
9	144 234 333
10	244 334
11	344
12	444

The method of solving will depend upon the size of the set being used. With each set, a table or key is provided showing all the possibilities according to the central number. Cross off the possible number combinations in the table as you go along. Use a pencil in case of mistakes.

This table is for a 000 – 444 set. The array is a section from such a puzzle.

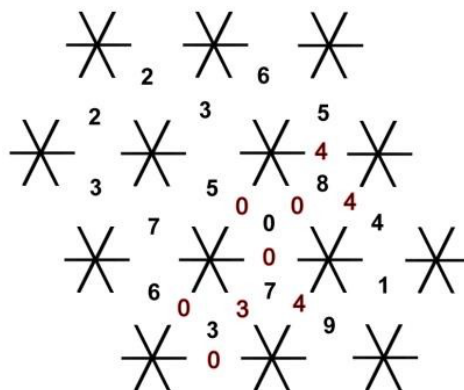


The 0 can only be one thing, 000, so fill it in and cross it off the table. Now we have a 0 to a 5, which in the table has two options (014) and (023). So we will leave that for a moment.

0 to 8 has only one possible solution, so fill it in and cross it off. This leads to a 4 with only one possibility; fill it in and cross it off. Now 0 to 7 is (034). Next to the 7 is a 3 so the 3 of the (034) must go there; fill it in and cross it off.

Now we have reached this stage: -

0	000				
1	001				
2	002	011			
3	003	012	111		
4	004	013	022	112	
5	014	023	113	122	
6	024	033	114	123	222
7	034	124	133	223	
8	044	134	224	233	
9	144	234	333		
10	244	334			
11	344				
12	444				



The 5 above the 8 must be (014), but we don't know which way round the 0 or the 1 are but put a line through the 4 of (014) to tell you that you have located this number.

Now that you have isolated (014) then the 5 by the 0 must be (023). The 3 above it must be (012) because (003) is already used and the (111) cannot meet (023). Now fill in (023) and (111) and then cross them off the key.

Now you can fill in the 7 and the 6 below it and then cross them off. The two adjacent 2's are (002) and (011) and the number at which they meet must be a 0 so fill in these two and the 1(001) and 9(144) and then cross them off.

You should now start on the first puzzles, which you will find are (000) – (333) sets. When you are solving 000-333 Trignons, valuable number combinations are where a 0 is next to a 6; 1 is next to a 7 and a 2 is next to an 8.

Important Note - Whenever a Trigon has two unattached exposed sides, the numbers on those sides must be the same.

As these two fours here.



Never put in a number because it will fit.

Only put in a number because nothing else will.

Happy Solving.

Watch the explainer video on <https://trigonpuzzles.co.uk/how-to-solve.html>

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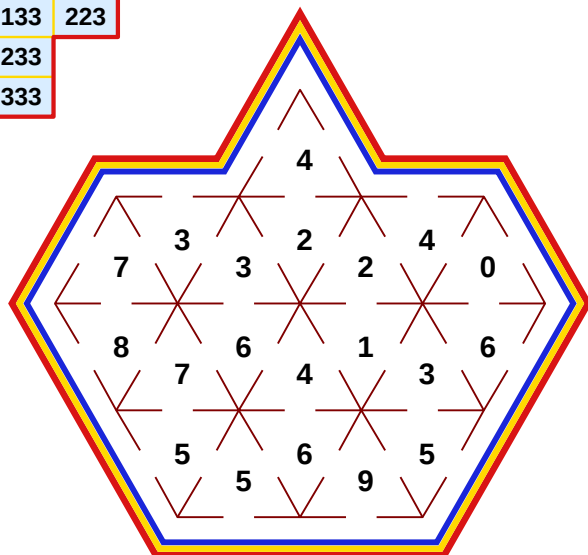
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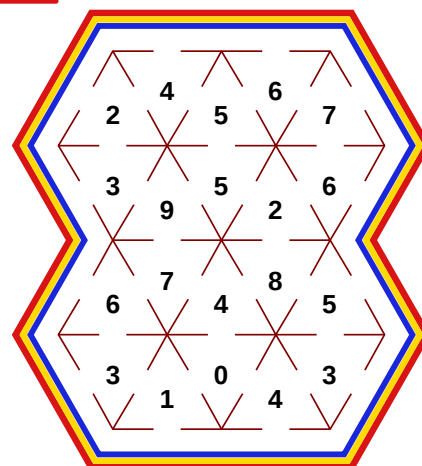
0	000		
1	001		
2	002	011	
3	003	012	111
4	013	022	112
5	023	113	122
6	033	123	222
7	133	223	
8	233		
9	333		

Puzzle No 3a2
Page number 2
Solution on Page 41
Difficulty: Simple



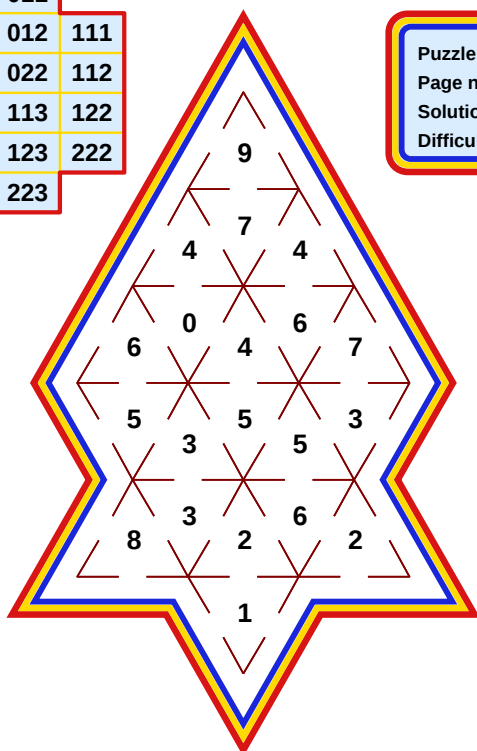
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2	002	011		
3	003	012	111	
4	013	022	112	
5	023	113	122	
6	033	123	222	
7	133	223		
8	233			
9	333			

Puzzle No 3b99
Page number 2
Solution on Page 41
Difficulty: Simple



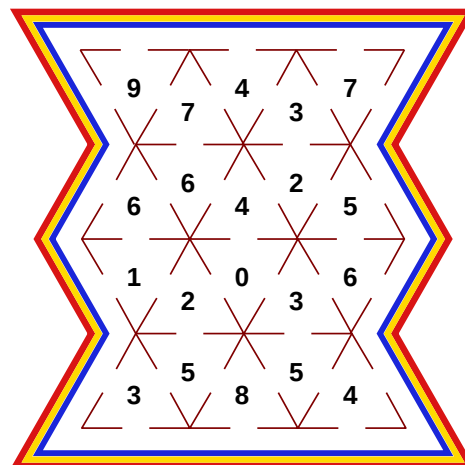
0	000		
1	001		
2	002	011	
3	003	012	111
4	013	022	112
5	023	113	122
6	033	123	222
7	133	223	
8	233		
9	333		

Puzzle No 3c48
Page number 2
Solution on Page 41
Difficulty: Easy



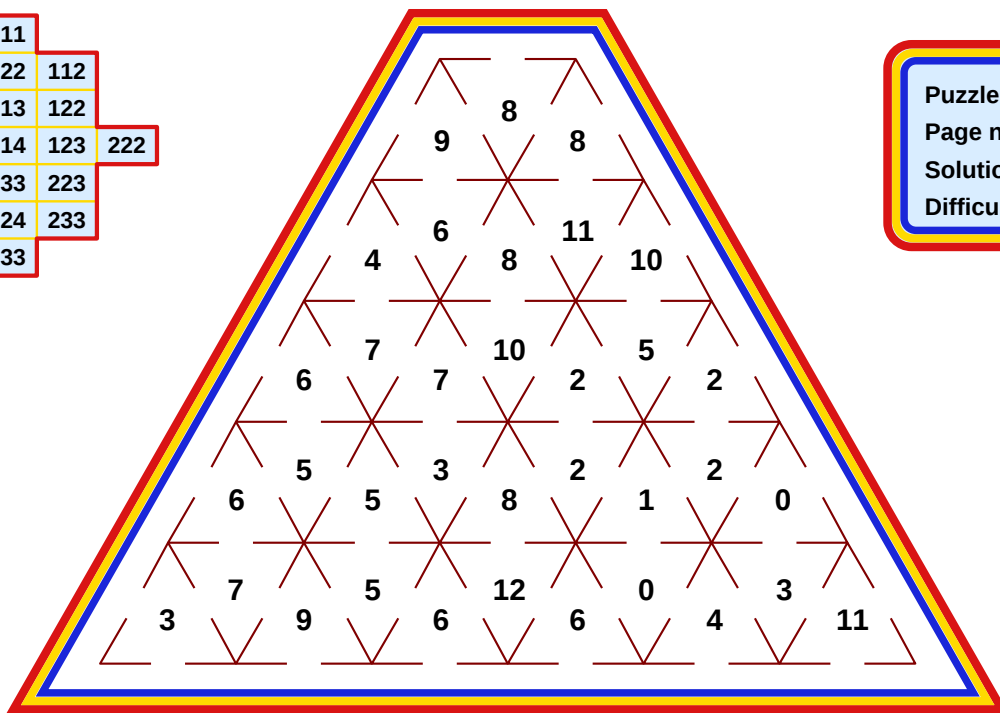
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1	001			
2	002	011		
3	003	012	111	
4	013	022	112	
5	023	113	122	
6	033	123	222	
7	133	223		
8	233			
9	333			

Puzzle No 3d83
Page number 2
Solution on Page 41
Difficulty: Medium



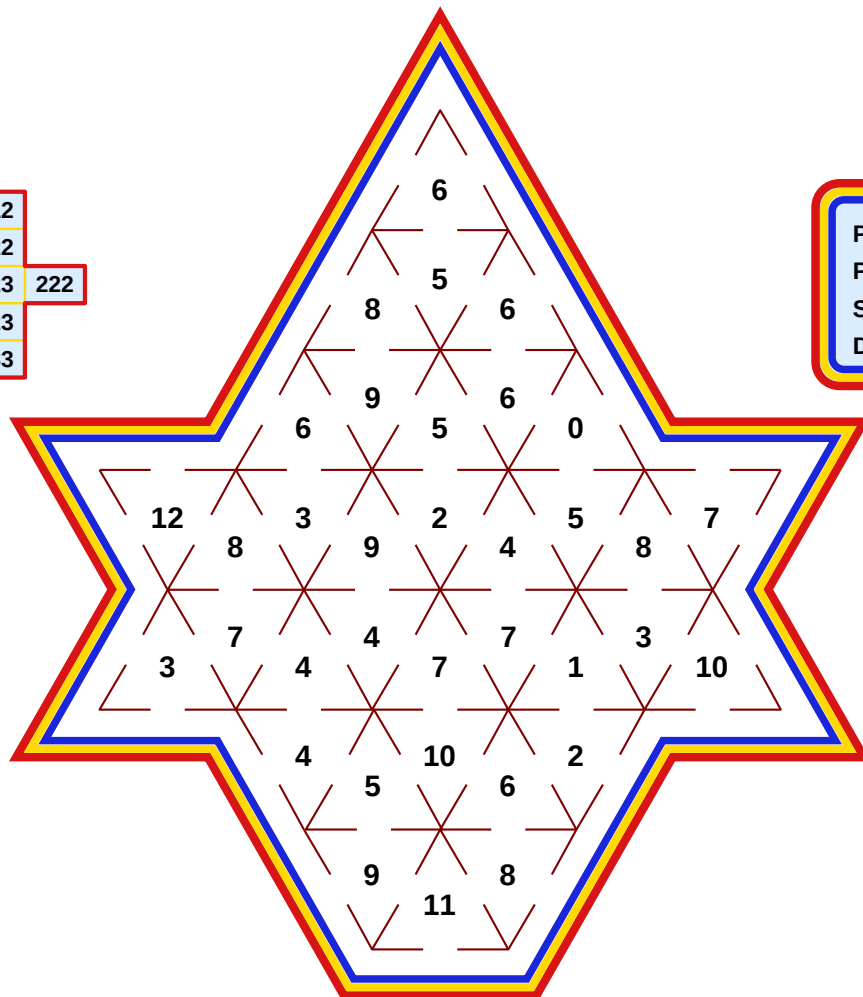


0	000
1	001
2	002 011
3	003 012 111
4	004 013 022 112
5	014 023 113 122
6	024 033 114 123 222
7	034 124 133 223
8	044 134 224 233
9	144 234 333
10	244 334
11	344
12	444



Puzzle No 4a36
Page number 8
Solution on Page 47
Difficulty: Hard

0	000
1	001
2	002 011
3	003 012 111
4	004 013 022 112
5	014 023 113 122
6	024 033 114 123 222
7	034 124 133 223
8	044 134 224 233
9	144 234 333
10	244 334
11	344
12	444

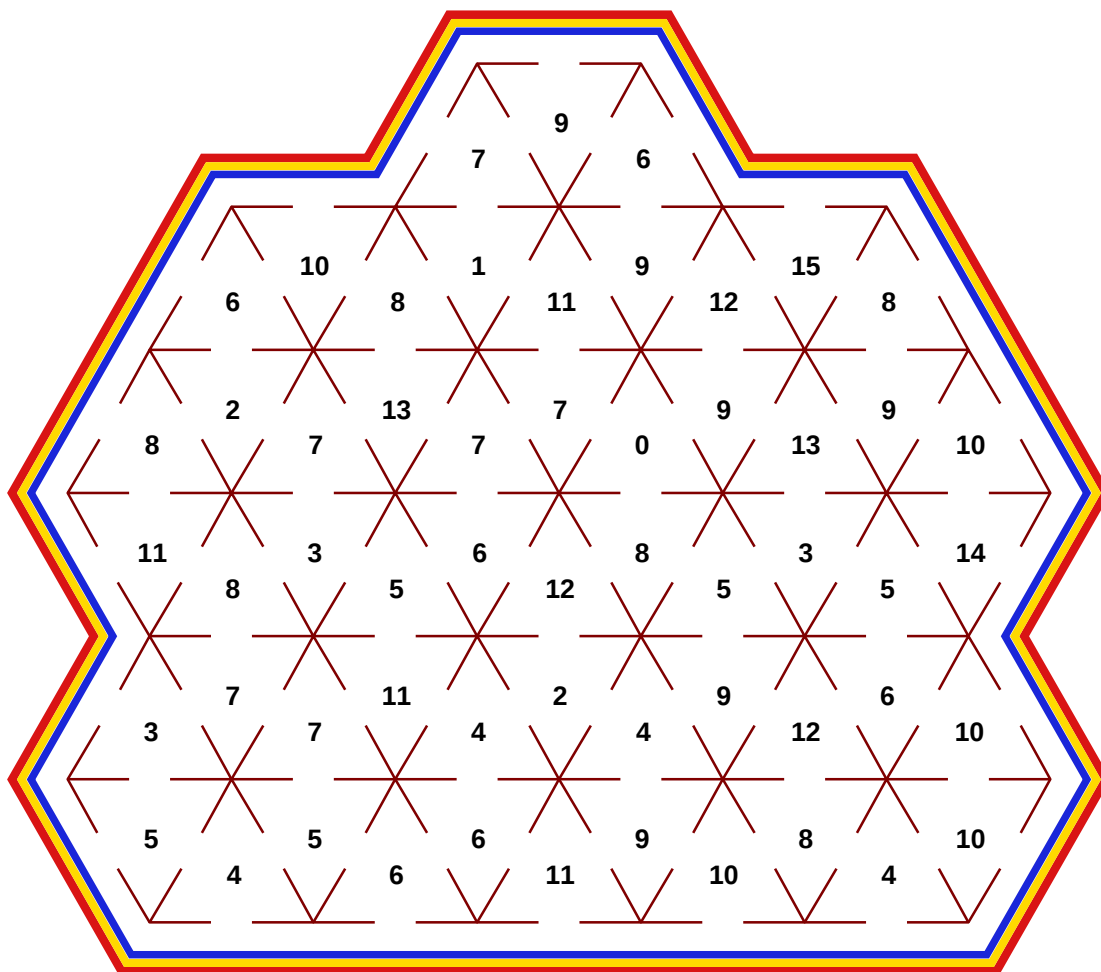


Puzzle No 4d30
Page number 8
Solution on Page 47
Difficulty: Simple



0	000
1	001
2	002 011
3	003 012 111
4	004 013 022 112
5	005 014 023 113 122
6	015 024 033 114 123 222
7	025 034 115 124 133 223
8	035 044 125 134 224 233
9	045 135 144 225 234 333
10	055 145 235 244 334
11	155 245 335 344
12	255 345 444
13	355 445
14	455
15	555

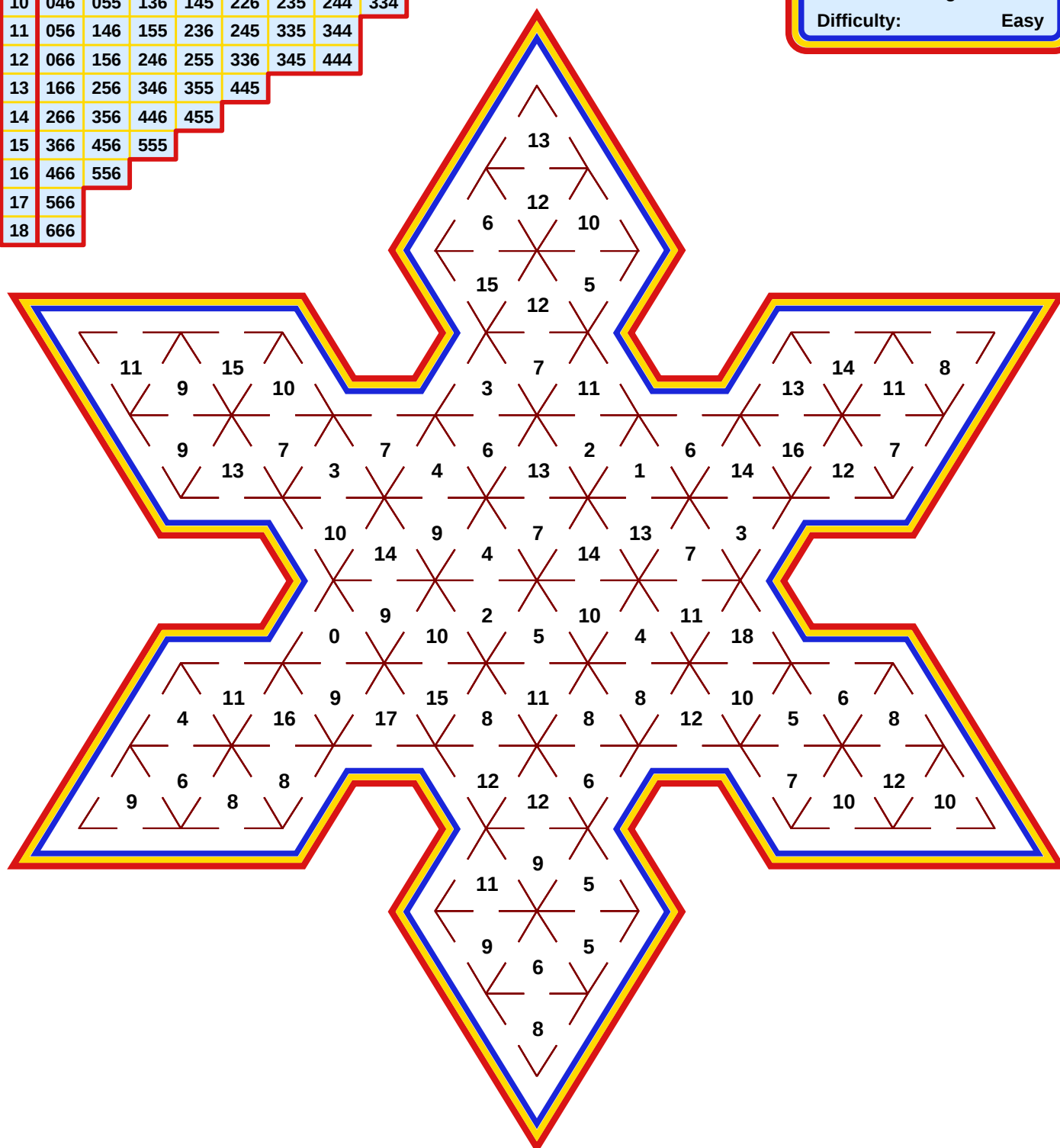
Puzzle No 5a20
Page number 15
Solution on Page 54
Difficulty: Easy





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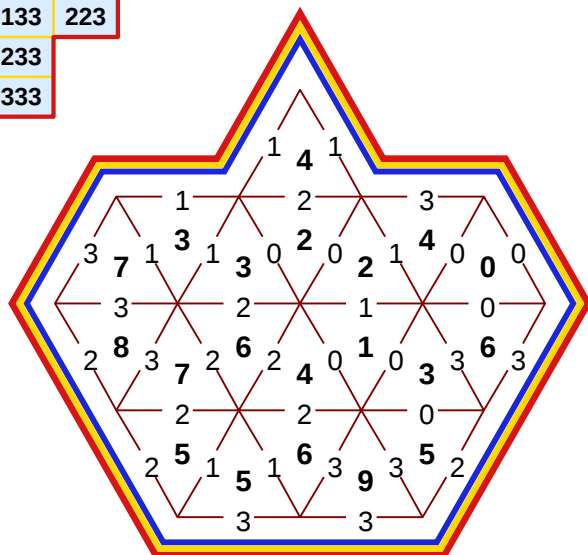
Puzzle No	6c143
Page number	21
Solution on Page	60
Difficulty:	Easy





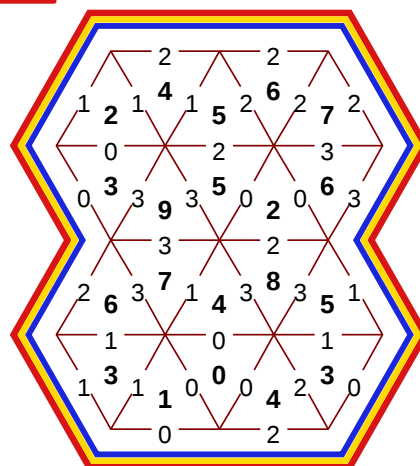
0	000		
1	001		
2	002	011	
3	003	012	111
4	013	022	112
5	023	113	122
6	033	123	222
7	133	223	
8	233		
9	333		

Puzzle No 3a2
Page number 2
Solution on Page 41
Difficulty: Simple



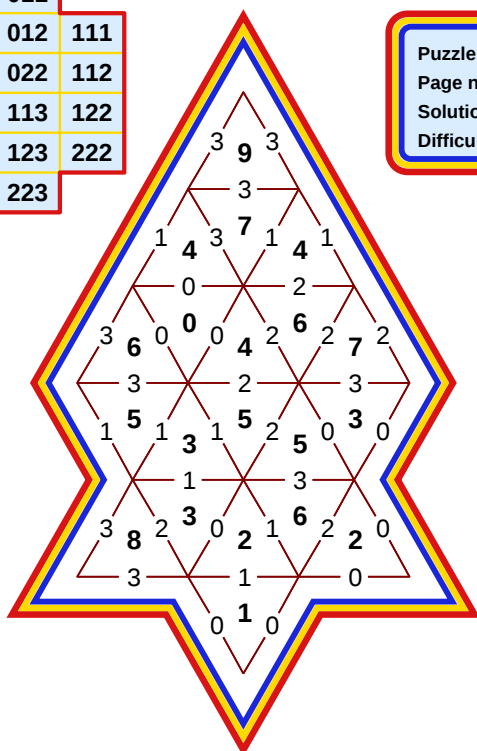
0	000			
1	001			
2	002	011		
3	003	012	111	
4	013	022	112	
5	023	113	122	
6	033	123	222	
7	133	223		
8	233			
9	333			

Puzzle No 3b99
Page number 2
Solution on Page 41
Difficulty: Simple



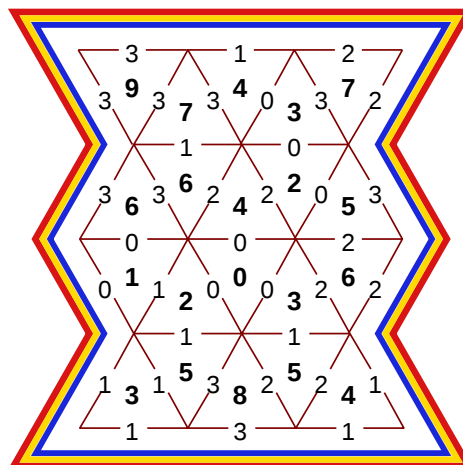
0	000		
1	001		
2	002	011	
3	003	012	111
4	013	022	112
5	023	113	122
6	033	123	222
7	133	223	
8	233		
9	333		

Puzzle No 3c48
Page number 2
Solution on Page 41
Difficulty: Easy



0	000			
1	001			
2	002	011		
3	003	012	111	
4	013	022	112	
5	023	113	122	
6	033	123	222	
7	133	223		
8	233			
9	333			

Puzzle No 3d83
Page number 2
Solution on Page 41
Difficulty: Medium





Thank You for Trying Our Puzzles

We hope you enjoy this Trigon Puzzles book and trust it brings you many hours of satisfying solving.

All our puzzles are created by people, not computers — no algorithms were harmed in the making of this book. To solve each one there is a single route through the puzzle, found only by logic and memory, and every solution is unique. It's a fine way to test and sharpen your wits.

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