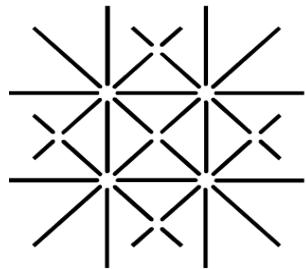


Decodoku Puzzle Book



**Solve Puzzles!
Help Science!**



UNI
BASEL

QSIT *Quantum
Science and
Technology*

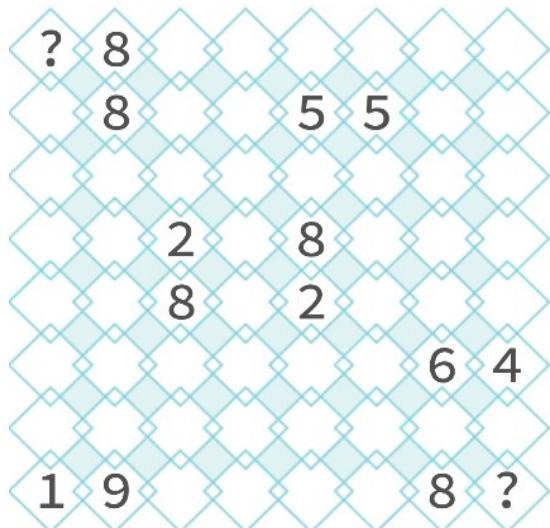
National Centre of Competence in Research

To build a quantum computer, we need to solve puzzles. They aren't weird quantum puzzles. They are just like the ones you solve all the time. So help us out!

Each puzzle has a grid of numbers.

They come in groups that add up to a multiple of 10.

There are two ? squares. You just need to work out what's in them (if anything).



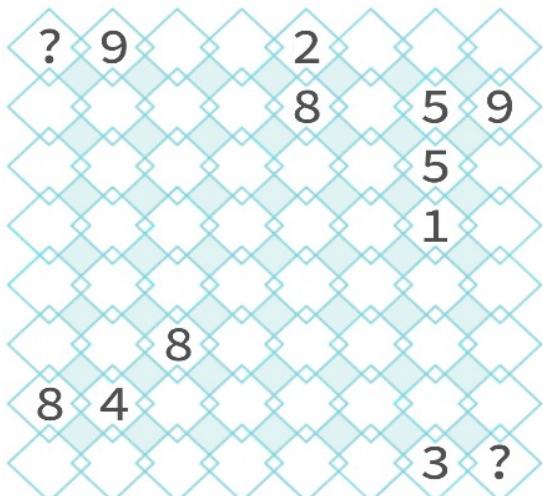
Here's the full solution for the example above.

The bottom right has an 8 in need of a 2. But nothing is nearby. So the bottom left ? square must hold that that 2.

The top left has two 8's. They need a nearby 4 to give us 20. So the top left ? is a 4.

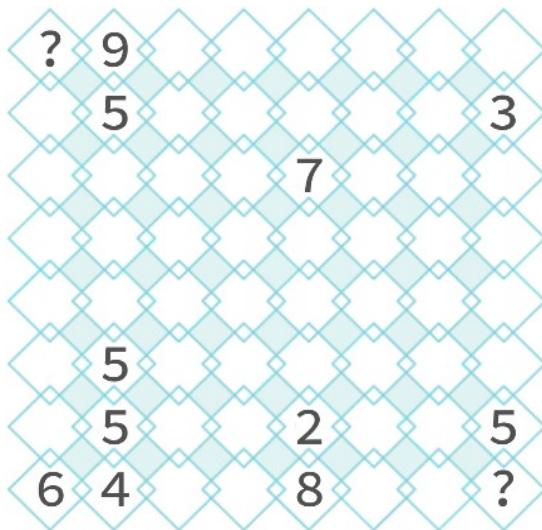


This example had simple groups. Mostly just pairs that add up to 10. But the groups can get more messy, as in the example below

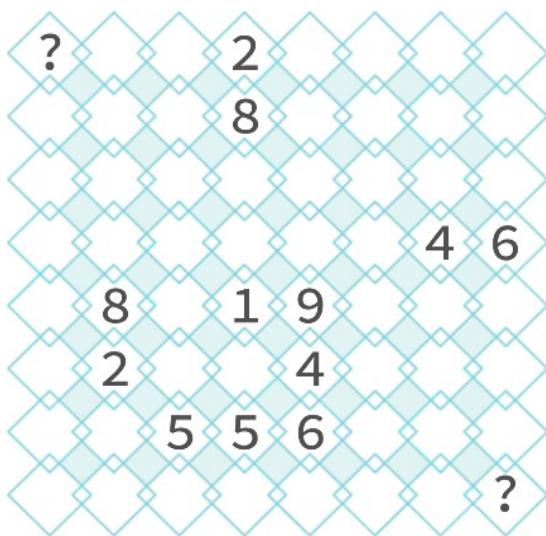


The numbers don't need to touch to be in the same group.
But the further away they are from each other, the less likely they
are to be in the same group.

For example, look at the 7 and the 3 below. They are quite far
from each other, but neither has any other friends nearby.
So they belong together.



A final word of advice. It is possible that either ? square can be empty. They can even both be empty!

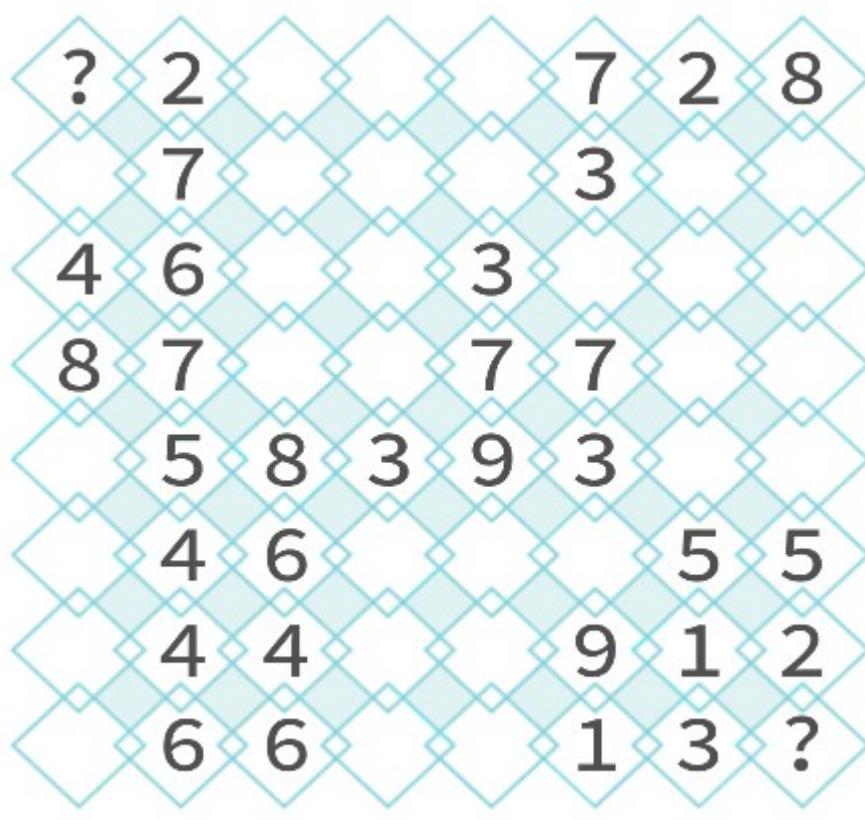
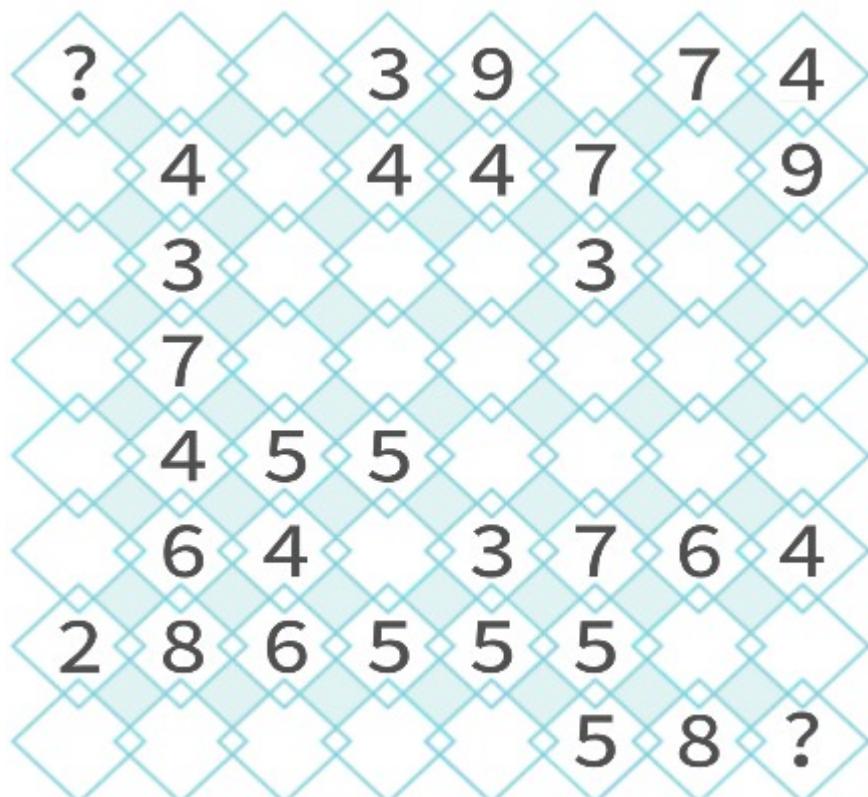


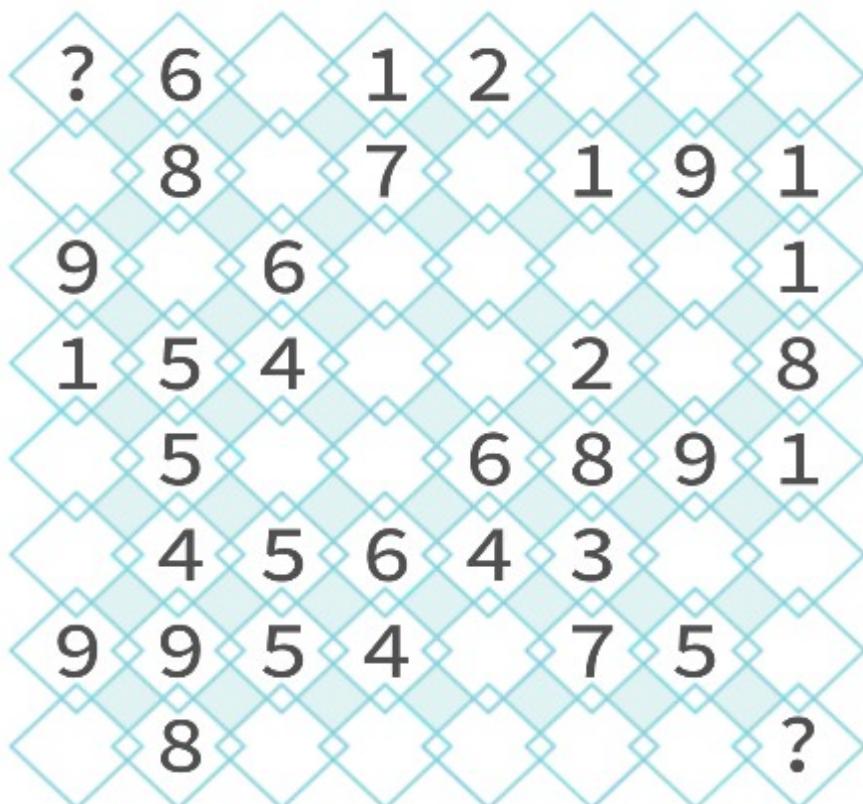
Now we have over 100 puzzles for you to try. Once you've
finished, you'll know more about quantum error correction than
we do! So come and tell us scientists how to do our job at

www.decodoku.com/puzzles

Do it before the end of 2016 and you could even win a prize!

We'll start with 10 easy puzzles, and then move on to some harder ones. The solution for each puzzle is written underneath.





top left = six
bottom right = five



top left = zero
bottom right = two

?	7	2	7	8	5	
5	1	3	3	2	5	3
					9	9
3	1			4	1	1
7	9	4		6	7	3
			6			
1	9		3	7	8	7
				2		?

top left = two bottom right = three

?	3		7		1	
			3		2	7
6					1	9
4		6	4		4	
	3	7	3		2	4
	7				4	6
2	8	5	6	8	2	7
1	4	4			9	?

top left = seven bottom right = one

?	5	3			5	3
6	8	9	1		5	7
2	8	9	6			
3		4			9	
7				3	7	1
		2	8		5	
4		3	9		5	
6		7	1	6	3	?

top left = nine bottom right = one

?	6		8	2		
8					8	2
2	4	1	9		3	
8	1				7	
1	3	7	6	4		
9	4	2	3	6		9
6		8	4	6	6	
8	4		4		?	

top left = six bottom right = five

?	8	2			2		
5	4	6	4	6		5	
					8	6	
7	3	7	3		9		
		9	1	1	9		
8	2				9		
	9	1	4		1	2	8
		6			3	?	

top left = five bottom right = seven

?	1	7	8	3	5	5	
7		4		9		2	
3		6	5	8			
6	4		5		2		
7	3	1	9	5	8	8	
1			7	8	2	3	
7	9			1	6	1	
3		7	1	1	1	?	

top left = two bottom right = nine

?	8	9	7	6		
	1	3	7	7	7	3
3	5	3	7	8	7	3
1		2	2	9		9
3	3	3	7	4	6	5
	8		4	6	9	
	4	5	7		1	2
3	9	1	3			?

top left = two bottom right = eight

?	9	3	8	6	4	2	
6	1	7	4	8		6	2
3		8	2	4	1		
7			2	9	6		3
	6	5		5	1	2	
9	1	1	4	5	9	2	3
6		2	2		3	6	9
4		2	6	1	5	5	?

top left = four bottom right = one

?	8	9	7	9	4	2	8
9	2	8	3	1	6		
1	4	6	8	9	1	3	7
8	2		2		5	5	
		2	3	8	2		
		1	4	8		1	
5			5	6	6	1	6
2	9	4	5	5	5	9	?

top left = three bottom right = three

?	8	9	7	9	4	2	8
9	2	8	3	1	6		
1	4	6	8	9	1	3	7
8	2		2		5	5	
		2	3	8	2		
		1	4	8		1	
5			5	6	6	1	6
2	9	4	5	5	5	9	?

top left = three bottom right = three

?	8	9	7	9	4	2	8
9	2	8	3	1	6		
1	4	6	8	9	1	3	7
8	2		2		5	5	
		2	3	8	2		
		1	4	8		1	
5			5	6	6	1	6
2	9	4	5	5	5	9	?

top left = three bottom right = three

?	2	3		8	8		
2	8	7	7	2	8	2	8
2		8		5	4	2	6
	3	2				4	6
	5	4	2		4	9	
	6				6	7	5
6	4	2	8	2	9	3	3
9	1	7	3	9		7	?

top left = six bottom right = six

?	2	4		8		
3	7	2	4	2		
3	9	4	4	3	8	6
9	9	9		6	7	3
	6	1	3	7	9	
3	7		5	5	4	6
1				5		1
4	5	6	4	5	9	?

top left = eight bottom right = zero

?		2	4	7	4	6	8
5	9	8	4	4	8	5	2
9	6	7	8	6	7		
9	5	4	2	4	6		
2		6				1	
4		4	8	5	5	3	
9	1	6	4	9	3	1	1
6		4		9		7	?

top left = five bottom right = eight

?	5		5	3	8	3	4
7	5		8	7	9	2	8
1				7	8	5	
3	6	9		5	8		5
	8	1		9	1		5
	2	1	9	4	3	6	6
	2	1		2	9	2	9
2	8	7		7	3	8	?

top left = three bottom right = one

?	7	6	4	6	3	7	7
1	8	4	8	8	5	7	3
	2	9	2				
1	6		9	1	4	6	
5		1	9	1	3	4	
3	9	1	2	8	3	4	
5	6	4	3			6	4
4	4	2	9	8			?

top left = two bottom right = six

?	5		2	7	9	6	1
8	5		8		3	6	3
		1		6	6	4	
4	6	9		2		6	2
3	7	6	4		6	5	8
4	9	3	8		6	4	
6	4	7	9	8		8	
1	9		2		9		?

top left = two bottom right = three

?	5	9					
3			2		5	9	1
				8		5	3
6	4	1	5		4	9	8
				8	6	5	1
						7	2
6	4	1	7				
7	6		1	6	8	2	6
3			9	9		9	?

top left = two bottom right = one

?	5			2	7	
8	2		3	1	1	1
	4	6	7		2	
	8	3	1	3		3
2		4	5	2	8	
	2	5	3	7	5	
9	7	3	7	8	1	6
2	2	4	6	2	4	4
						?

top left = five bottom right = nine

?		4	7	1	6	4	
4	8	8		7		1	9
	6	7		5			1
	6	5	5	5	5		9
6		8	9	9	1		
9	8		3	5		5	8
4	5	7		3	1	9	9
7	8			7	9	1	?

top left = three bottom right = three

?	6	3	6	3	5	4	9
						9	1
	2	8	9			6	9
9	2	1	7	6	4	3	
1	8	6		8	6	1	1
7	7	3	9			8	2
1		6		1	1	4	
			8	1			?

top left = four bottom right = five

?	2	1	9	1	9	3
4			2	2	8	1
6			8		6	9
5	1	9			4	
2	3	7	9			6
9	2	9		6	4	4
7	5	8	6	4	6	4
7	7		4	6	8	6
						?

top left = eight bottom right = four

?	7		4	2	6	7
	4	6	2	7		
8	9	3	2			
			3	7	4	2
1		3	3	2	6	8
3		3	4	5	3	
2	4	6	1		5	5
	1	9	3	7	7	?

top left = three bottom right = three

?	4	3	2	8	4	6	9
5	2	2					1
	5	8	6	4			
9	9	8	8	1	4	7	
1		6	5	5	6	1	9
6	4	3	7	3	2	7	
1	5	7	7	8	4		
8	6		3		3	8	?

top left = eight bottom right = two

?	9	2	9	7		4
2	8	9	1	7	7	3
	6	9		4		
	6	5	5	6	6	
3	9		4	8		
2	4	1	2	6		7
4	6	9	5	3	8	8
	1			2	2	?

top left = two
bottom right = seven

?	3	9	2	4	5	3
6	4		8	7	5	
		2	3	6		
7	8	4	4	1	8	3
5		1		2	9	3
3		2	1	1	4	
7	8	2	9		8	1
2	3	5			2	7
						?

top left = seven
bottom right = two

?		8	2	8		8	2
	5	2	7				
	3		2	8	3	1	9
	3	7	6	4	6	4	7
	9	1		4			6
	4	6			6	4	4
	5	6	7	6	8		2
	5	7		9	7	9	4
							?

top left = two bottom right = six

?	6	3	5			6	
8		2			6	4	4
	8	8	6		1	9	
	4		4	3	7		
	2	9	3	7			
	8	1	2	8	6	3	
		3			4	4	1
					1	6	8
							?

top left = six bottom right = four

?		4	6	1	6	2	
9			1	2	6	9	8
9	1	7	4	7	9		1
5	4		3	5		2	
9	1	3	5	6	8		7
1	5		1	5	2		3
1	4	4		1	9		7
2	8	6	9	1		9	?

top left = one bottom right = one

?	7				7	5	
9		8	7	1		9	9
2	2	2	2		7	4	
1	5				3	9	
1	9	5		6	4	7	
5	6	4		8			
	7	3	8	3		2	8
4	9	7	4	7		8	?

top left = four bottom right = two

?	9	4	1	9	1	8	1
1	1	6		9	2	1	
	8	6	5	4	8	8	
9	2	9	8	5	1	2	
4	2		2				
5		5		3	2	7	3
8	9	3	8	5		7	
2	9	1	5	4	6	3	?

top left = nine bottom right = zero

?	4	1	9		9	1	
6	9				1	9	2
2	8		9	1	2	8	
1				2		5	3
2	8	1	9	1	5	4	3
	4	4	2	7	5	9	5
5	5		4	3	7	4	5
7	3		6		2	?	

top left = zero bottom right = eight

?		1		9	2	5
8	9	9		9		5
	5	6		2		
	5	4	9	6	8	2
8	2	7	4	5	9	9
7	7	9	9		7	6
7	4	1			4	2
	5			4	2	4
						?

top left = three bottom right = six

?	3	5	8	7	8	2	2
2	7		9	1			3
5			4	6	8	4	1
	6		2			6	4
4		2	8		4		
		4	2		1		5
2	5	9	8	3	1	4	3
1	9	1	9	5	6	6	?

top left = three bottom right = two

?	8	1		5	4	6
9			3	6	5	5
1	3	9	2	5	9	
9	7	1	6			
	4	4	1	9	2	8
2	5	9				
	2	2	8	9	8	2
1	7	2	8	4	?	

top left = two bottom right = seven

?	4		8	8	2	8
1	2	1	4	8	2	8
	6	3		7		4
1				1		
9	2	8	1	8	5	9
	7	3			9	7
1	9	7		3	8	4
	3		7	9	1	?

top left = six bottom right = nine

?	9		6	1	2	7	3
	8			9	1	4	7
		9			8	4	
8	2	1	1		2	6	9
8	2		9				1
	4	5		2	1	9	
8	3	3		9		4	5
2		3	2		8	1	?

top left = three bottom right = one

?		8	4		2		
9	8	8			8	6	4
6	2	5	5	7		8	2
1	3			3			
3		9	4	4	4		5
4	9		5	6		4	5
6	1	7	5	4	6	6	7
2	8	3			6		?

top left = one bottom right = seven

?	3	7	3		1	2	4
		9			1	2	
4	7	1	3	6	1		7
6		9	1		5	8	3
	3	7		9	8	3	7
	7	7	2	8	2	3	
6	4		4		3	2	
	6	9	7	8	4		?

top left = zero bottom right = eight

?	7			9	4	2	8
9	6	5	1	6	9	1	
	4	1				5	2
6	4		6	4			2
3	8	9	4	8	2		1
	2	4	2	9			
3			4	1	8	4	
7	9	4	9	2			?

top left = eight bottom right = zero

?	1		1	3	7
9	1	8	6	4	5
7	6	4	1	8	6
9	4	3	6	2	6
8		6	4	7	4
9	7		7	7	6
3	7	8		4	4
	2		6	8	?

top left = nine
bottom right = eight

?	6	8		8	2
2	4	2	8	2	4
	6	1		7	4
8	6	3		9	
6	6	6	2	8	9
4			9	8	6
7	3		9	2	7
	7	3	1	4	4
			5		?

top left = two
bottom right = one

?	6	3	6	7	5	5
1	2	8	7		6	9
		7	2	3	2	5
	9	7	4	1	5	5
	1		3	4		
3			7	5	3	7
1	6		7	7	5	5
9	1	9	4	6	4	3

top left = zero bottom right = five

?	2	4	5	5	1	
		9	3	3	2	
			4	7	7	
6		3	2	8	2	8
	4	7	2	6		4
5	8	9	6	4	1	8
1	3				7	
6			4	6		?

top left = eight bottom right = zero

?	9	8			8		
1	6	9	1		8	5	
		3	7		6	7	3
4	8		3	7	3		
3	6	2	7		5		
4		5	3		7	8	
	6	9			2	1	
9	5	4	5	9	1		?

top left = six bottom right = seven

?	1	7	6	4	7	9	
9	8		7	4	9	3	1
1	5	3	7	5	1	4	
3		9				6	
7		8			4		
3	1		2	9	5		
4	8	8	8	9	2	5	
				5	3	?	

top left = two bottom right = eight

?	9		2	1	9	3	8
9	1	7			8	4	
3	7	3	6	4	9	8	8
1	4	1	9	6	3		7
5			1	1			3
	5	5	9		4		1
1	9				2	6	
3	2	5			7	5	?

top left = one bottom right = five

?		6	4		6	1	
9	8	9	9	5	5	9	6
5			9	3	5	5	8
	9	1			8	8	2
6	4	2	7	1			5
6		6	4	8	1	6	9
4		3	6	3	5		
	7	4		4	1		?

top left = eight bottom right = zero

?	1	5	1	3	7	8	2
2	2	4	9	2	3	7	
	5		4	4	3	7	
8	7				8	2	
8	4	8	1	9	5	5	
		7	9	3	8		
	3	3	9	6	6	6	
		8	8		7	?	

top left = six
bottom right = seven

?	9		9	7	4	8
5			3	8	5	4
	2	8	3	5		2
5	5	1		2	8	2
4	4	8	9	4	2	
7	4	2		7	8	1
1	9	9	2	8	7	9
	8	3			1	5

top left = six
bottom right = seven

?	6		4	6			
2	7	2	7	9	1	4	6
2	9	1	4		3		
6	4		6		7	5	
5	5		6	1	4	5	
4	6		4		5	8	3
4	6		2	3	5	5	1
		7		8	6	4	?

top left = four bottom right = eight

?	9	8			8		
1	6	9	1		8	5	
		3	7		6	7	3
4	8		3	7	3		
3	6	2	7		5		
4		5	3		7	8	
	6	9			2	1	
9	5	4	5	9	1		?

top left = six bottom right = seven

?	1	7	6	4	7	9
9	8		7	4	9	3
1	5	3	7	5	1	4
3		9			6	
7		8			4	
3	1		2	9	5	
4	8	8	8	9	2	5
			5		3	?

top left = two
bottom right = eight

?	9		2	1	9	3	8
9	1	7				8	4
3	7	3	6	4	9	8	8
1	4	1	9	6	3		7
5			1	1			3
	5	5	9			4	1
1	9				2	6	
3	2	5			7	5	?

top left = one
bottom right = five

?		6	4		6	1	
9	8	9	9	5	5	9	6
	5		9	3	5	5	8
	9	1		8	8	2	
	6	4	2	7	1		5
6		6	4	8	1	6	9
4		3	6	3	5		
		7	4		4	1	?

top left = eight bottom right = zero

?	1	5	1	3	7	8	2
2	2	4	9	2		3	7
	5		4	4		3	7
8	7				8	2	
8	4	8	1	9	5	5	
		7	9	3	8		
	3	3	9	6	6	6	
		8	8		7	?	

top left = six bottom right = seven

?	9	9	7	4	8
5		3	8	5	4
	2	8	3	5	2
5	5	1	2	8	2
4	4	8	9	4	2
7	4	2	7	8	1
1	9	9	2	8	7
8	3			1	5

top left = six
bottom right = seven

?	6	4	6			
2	7	2	7	9	1	4
2	9	1	4		3	
6	4		6	7	5	
5	5		6	1	4	5
4	6		4	5	8	3
4	6		2	3	5	5
		7		8	6	4

top left = four
bottom right = eight

?	1	4	7		6	1	
4	5	5	8	1	4	9	
7		2	5	3	6	4	1
1		2	8			4	5
2	7	3	3	1	4	4	6
	7	4	7	9	6		
	7	6	4	2	7	5	5
6				4	3	9	?

top left = five bottom right = one

?					8	5	
6		6	4	2	2	7	5
8	9	1	8	6	9	3	
	7	5		3		2	9
3	5	1	4	8	1	9	
7	5		5	2	8	4	6
		8	2	3	1	4	
5	7	8		8	5	4	?

top left = four bottom right = eight

?	3	6	1			4
9	5	4	9	6	4	6
7		2	8		9	3
3	4		9	4	8	3
5	5		2	1	1	5
8	2	2	8		6	1
8	2					6
		2	8			?

top left = three bottom right = four

?	4	6		8	2	
3	2	7	3		3	9
9	7	7		3	2	
4	2	8	1	2	1	2
6	3	1	8		5	3
4	5	2				1
7	3	2	4	5		9
		2	2	5		6
						?

top left = eight bottom right = four

?	2	1	4	7	2	9
8		9	6	3	9	4
7	2	6	7	5		6
7	1	9	4	6	9	
8		1	7	6	7	2
5	5	6		7	3	3
7	5	6		7	3	
3				4	3	?

top left = one bottom right = three

?	2	8					4
5	3	7					6
3	7		7	9		7	3
7	7	6	4	1	7	8	5
5	7		9	5			
9	3	4	6	5	3	9	
1	5		3	5	1	9	4
4	3		5		8		?

top left = five bottom right = six

?	6				6	1
5	2	5	7	3	4	7
6		6	8	3		2
	4	3	8	1	1	
			8	6	9	3
	2	8	2	7	3	7
3	9	1	8	4	5	5
8		9	2	3	8	9
						?

top left = seven bottom right = one

?	4			2	8	
6	1	6	4		2	9
					8	6
	4	9				6
		9	2		9	4
4	6		7	4	9	
2	1	9	9	9	7	5
	9	9	6	6	3	7
						?

top left = seven bottom right = five

?		9	4	3	7	3	
4	5		7		7		
8			6	5		3	
2	9	5	1	8	5	2	
3	9	2			9		
1	3	4			1	1	9
8	8		7	5		9	3
5	3			7	3	4	?

top left = one bottom right = two

?			3	7	3	2	
2	9	7	5		8	8	
9	4			6	6	5	4
8	1	9	1	9			
8	4			4		6	4
1	9	8					
4	4	4		6	4		2
7	3		1	6	3	5	?

top left = eight bottom right = three

?	9	3		5	5	
	1	2	8		8	
	8	5	5	6	2	
4	1	5	2	5	5	9
		5	5	8	5	1
9	9	1	6	2	2	1
8	2		3	8	2	4
2			2	9	7	?

top left = seven bottom right = three

?	3		5	5		
5	7	2		1	9	1
	1	9	9	1	1	9
2	8	6	6	4		7
	2		7	3		3
6	4	9	1		8	9
	6	4	2	3	5	9
6	4	6	4	4	1	?

top left = five bottom right = nine

?	5	2	2	1	9
7	5	7	1	3	8
8		6	4	5	5
2	1	9	9	3	8
	6		7	9	3
2	2	7	3	6	7
4	6	1	3	7	4
	9				?

top left = three bottom right = six

?	5	9	9	4	6	1
2	8		7	1	9	9
3	7		6		6	8
	7		4	8		8
3		6			4	4
	4	7	7	3		8
	4	9	7	8	6	7
5		3	7	9	1	?

top left = five bottom right = six

?		3	2		1	5
	9	5		8	2	5
1	9			1	3	5
	4	3	7		1	3
9	6	9	3		8	
1	8			4		7
	8	7		6	3	
		1	4	6	1	?

top left = one bottom right = five

?		3	2		1	5
	9	5		8	2	5
1	9			1	3	5
	4	3	7		1	3
9	6	9	3		8	
1	8			4		7
	8	7		6	3	
		1	4	6	1	?

top left = one bottom right = five

?	5	5	8	5	7	
9	1		1	1	7	
4	1	9		8		
6	2	1	2	6	6	5
1	6			3		
2	4	6		3		
8	6	1	8	9	6	1
4	9	2	6	6	9	?

top left = one bottom right = four

?	7					
1		9	1			7
4	4	9	2	1	9	3
9	9		8	6	3	7
3	3	5	6	9	9	4
3	5		2		4	
9	8		2		9	
8	2	4	6		4	6
						?

top left = six bottom right = four

?	8	6	9	9	1
9	2	4	1	7	3
9	9		3	9	8
	8	8	5	5	9
6	2	7	8	1	1
4	4	6	3	7	6
	2	2			1
5	5	8	8		?

top left = three bottom right = nine

?		5	8	3	7
9	8	5	3	3	
1	1	9	2	6	9
6	8	5	8	8	9
4	8	4	6	5	3
	8		7	6	4
9	1	2	1	2	
1	9		7	3	3

top left = one bottom right = seven

?	8		7	3	5	9	6
1	1	2	3	7	4	7	9
4	6	3		2			
	7	7	2	2	4		
5	3		5	9	6	9	7
5	2	9		8	2	1	3
6	1		7	3			
2				5	4	?	

top left = eight bottom right = one

?	2		1	4	6	1	
3			9	9		4	
1		3		5	9		7
9		2	3	5	7	2	5
	2	7	2		1	9	9
4	4	1	6	2	9		3
3	6				5	8	2
9	1				8	9	?

top left = five bottom right = eight

?	5	4		2	7		
9	2	2		8	3		
			1	9	8	1	
9	1			2	8	6	2
8	1	9	1	4	5	3	
2		2	7	1		4	6
	1	6	5		6	7	5
9	4	1	4	3	7	?	

top left = eight bottom right = two

?	6			7	5	4	
3				8	3	1	5
9	5	5		8	9	1	6
				9	1		3
	8	2				4	6
8	2	7				8	2
8	9	1		2	1	1	3
2	4	9		8	9	5	?

top left = two bottom right = one

?	5			5	8	2	
8	6	9	9	8	7	7	3
9	1		1	9	7	5	
2				8	6	5	3
				1	9	5	2
4	6	3	5	2	6	3	
6	5	7	5	9	8	1	9
	4	5	8	3	7	8	?

top left = zero bottom right = nine

?	8	3			3	6	
7	3	5	5	8	9	9	8
	8	2	5	2	1	2	2
7	3	7	3			2	8
1	9	7	4	1	9		
7	5	5	6	3	8	3	7
9	7			7			?

top left = four bottom right = two

?	2	5		5	9	5	1
6	3	5	1	5		9	
2	9	7	9	1		2	3
8	1	2		8	2		
	2	1	7	3			
5	4		9	2	8	4	
3	7	6		4	2		
1	9						?

top left = two bottom right = one

?	2	1		4	6	6	
7	5	2		1	9	8	3
2	9	4	4	4	6	3	
9				9		5	3
2					2	5	7
6	2	3	7	9	9	8	1
3	7			5	7		2
7	3	9	1	1	2		?

top left = five bottom right = five

?	3	5		4			
4	3	6	2	2	6	1	9
		9	9		4	6	
	5	5	1	3	8		
		6	4	8	8		8
4		3		2		5	1
3	3	7	8	7	9	1	2
		3		1	9		?

top left = five bottom right = eight

?	9	6		1	1		
5	2	2	4	2	2		
7	1	8	6	6	3	5	4
2		1	7	3	9		6
		9			5	4	4
2	8	7	9	6	7	6	
2	1	2	5		8	6	
4	8	6	5	4			?

top left = four bottom right = six

?	3		6	4	7	
7	3	6	5	9	1	2
	3	7		4	6	
	1	9	7	4		
6	6	9	1	2	7	4
4	1	8	8		4	4
8	3	4	2	9	8	8
9	1	3	8	6	4	?

top left = seven bottom right = one

?	2	1	3	7	5	8
1		9	7	9	1	7
	5	5	3	6	6	9
		3	7	7	3	1
8	2	5	8		7	
1	8	9		5	5	3
9	9	9		9	1	3
3	7	1	1		1	9

top left = seven bottom right = seven

?	7		3	7	2
2	5	9	1	1	9
3	1	5		1	1
9		5	3		3
	7	3	1	6	2
2	8	9	1	7	6
4		6	5	3	5
6	3	6		7	?

top left = three bottom right = eight

?	5		3	7	6	5	5
5		7	7		5	5	
5	7	3	2	8	8	6	
6	6	4	5	3	9	4	
6	9		5	4		4	2
4		8	7		4	1	
6	4	2		5	6	3	7
	4	5	7	7		?	

top left = five bottom right = nine

?	5		2	2	1	7
1	8		2	4	9	5
7	8	5		7	3	5
9	3	7	4	3		5
1	8		3	3		8
6	2	3	7	7	4	8
4		3	7			5
		7	3		1	?

top left = six
bottom right = four

?	2	1		1		7
3	2	9	1	9	3	9
			5	9	1	2
2	8	8	6			6
2	4	2	8	8	2	6
7	1	7	3		9	5
3	3			8	1	3
				5	7	8
						?

top left = three
bottom right = two

?	7	2	1	9	4
7	8	8	8	4	2
1	5		2	4	6
3	2	4	5		
7		2		7	
3	8	6	9	4	3
9	9	7	8		9
1		2		3	?

top left = three bottom right = two

?		8	5		9
3	9	2	5	4	6
		2			7
1	9	3		8	7
7	3	3		1	2
2		7	4	1	7
	6	3	5	6	9
8	8			7	7

top left = eight bottom right = one

?	8	2		3	3	6	9
3		2	8	2	7	4	1
3	7	6	7		7	3	5
1	9	8	2		5		
4		2	4	9			
7	9	5	9	1			
2				3	8	9	6
8	5	5			9	1	?

top left = nine bottom right = four

?	3		6	4		8	2
7	4	6		2		3	7
5	5		7	5			
	2	4	2	2	8	1	
2	5	5	2	8	2	1	8
5	4			5	6	4	
9	9	1	1	5	1		
3	7		9		9		?

top left = six bottom right = zero

?	8	2	2	4	2	7
5	8		8	7	1	9
8		8	8	2	8	2
6			2			
9	7	3	6	2		
	2	7	4	7	8	1
7	3	6				
	8	6	8		3	?

top left = seven bottom right = seven

?	9	9	1	1	4	6
1			8	3	8	2
6	7		3	9	1	8
7	3	8	9			7
6	4	6	2		6	3
4	1		2	6	8	
3	3	7		6	4	2
7	5	9	1	2	8	?

top left = seven bottom right = eight

?		8	2	1	9	
2	6	4	6	7		7
1	3	8	8		9	3
	6	2	9	2	1	7
			1	5		4
8	6		2	4	3	9
6	3	4	5		2	3
8	5		8	7	8	2
						?

top left = eight bottom right = eight

?				5	5	9	
2	6			5	6	7	3
8	2	9	2	9		7	7
2	8	7	2	4	1		6
			6	4	8	3	6
2	8	9	2	6	3	2	6
			1			1	9
8	2					1	?

top left = two bottom right = nine