

		U	K		
P	U	Z	Z	L	E
L	E	A	G	U	E

Beginners Round 4 - 15th to 18th January 2021

Skyscrapers

Puzzles by Adam Bissett

Insert a digit from 1 to N into each cell in the N by N grid so that no digit repeats in any row or column. Also, each number in the grid represents the height of a building and the clues on the outside of the grid indicate how many buildings can be "seen" when looking from that direction. Taller buildings block the view of smaller buildings. For example, if a row contained the numbers 15342, then two buildings are seen from the left - 1 and 5 - and three buildings from the right - 2, 4 and 5 - with the other buildings blocked by taller buildings in front of them.

Time your efforts for each puzzle separately. Then submit your time for each puzzle, and the contents of each marked row or column.

Puzzle 1
1 point

3

1	3	1	2
	1	2	3
	2	3	1

→

Puzzle 2
1 point

2

	2	1	3
	1	3	2
2	3	2	1

→

Puzzle 3
3 points

3

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

3 3 3

Puzzle 4
3 points

3

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

2 2 3

Puzzle 5
3 points

3

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

2 3 2 3

Puzzle 6
5 points

3 3 3

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

5 1 3 3

Puzzle 7
6 points

5

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

➡

Puzzle 8
5 points



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

Puzzle 9

5 points

→

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

Puzzle 10  **12 points**

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

Puzzle 11
11 points

➡

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

Puzzle 12
15 points

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

When you have completed as many puzzles as you can, email a list of your puzzle times and answer keys to adam@ukpuzzles.org. For the example below you would say:
Example Puzzle - 23 seconds - 1432

Diagram illustrating a 4x4 grid with numbers 1 through 4, representing a Latin square. The grid is labeled with 1, 2, 3, and 4 on the sides and top. An arrow points to the first row.

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