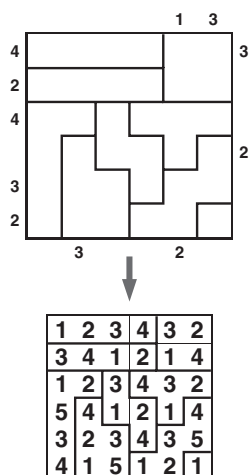# How to Solve HIGH RISE

High Rise puzzles are a combination of the more familiar Suguru puzzle together with a skyscraper element, which requires the solver to imagine being positioned at the end of a row or column viewing a set of skyscrapers, some of which obscure the skyscrapers behind them due to their height.

The usual rules of Suguru apply. To recap: each cell in an outlined block must contain a digit: a two-cell block contains the digits 1 and 2, a three-cell block contains the digits 1, 2 and 3; and so on. No same digit appears in neighbouring cells, not even diagonally.

And now for the skyscraper element. Each digit inside the grid represents the height of a skyscraper in that cell. Each digit outside the grid represents the number of skyscrapers that can be seen from that point, looking along the adjacent row or column. Taller skyscrapers hide shorter ones.
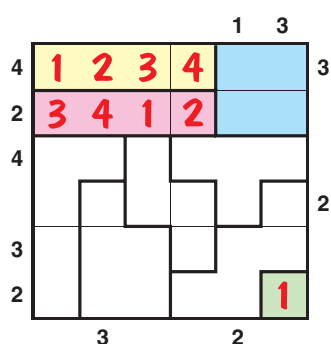
The first move is straightforward: a 1 can be placed in the green block by applying the Suguru rules.

Next, both the yellow and blue blocks can only contain the digits 1,2,3,4. However we also know that four skyscrapers can be seen from the left of the yellow block. The 1 can only go in the leftmost position of the yellow block, otherwise it would be obscured by a larger building. The same applies to the 2, 3 and 4, which must be placed in ascending order from the left.

The digits in the pink block can now be filled by applying the neighbouring cells rule of Suguru.
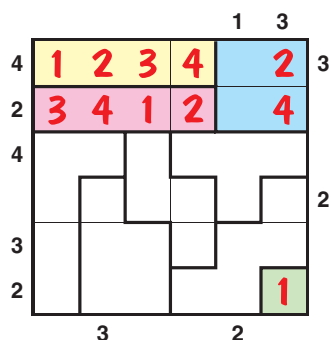
The neighbouring cells rule of Suguru means that the 4 in the blue block can only go in the righthand column. It cannot be placed in the top cell because three skyscrapers can be seen from the top of the column and there would have to be skyscrapers of mimimum height 5 and 6 below the 4 in that column. But the maximum height of each skyscraper in the grid is 5, as this is the maximum number of cells in each shape.

The 2 can now be placed in the blue block, according to the neighbouring cells rule.
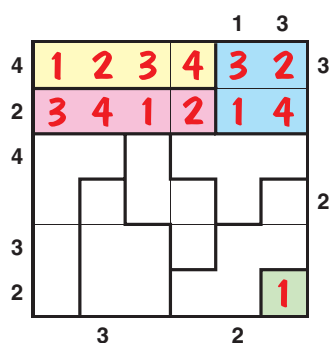
Now consider the position of the 1 in the blue block. In that column, only one skyscraper can be seen. The 1 cannot go in the top position, as this would mean that no skyscraper taller than 1 could be placed below it.