

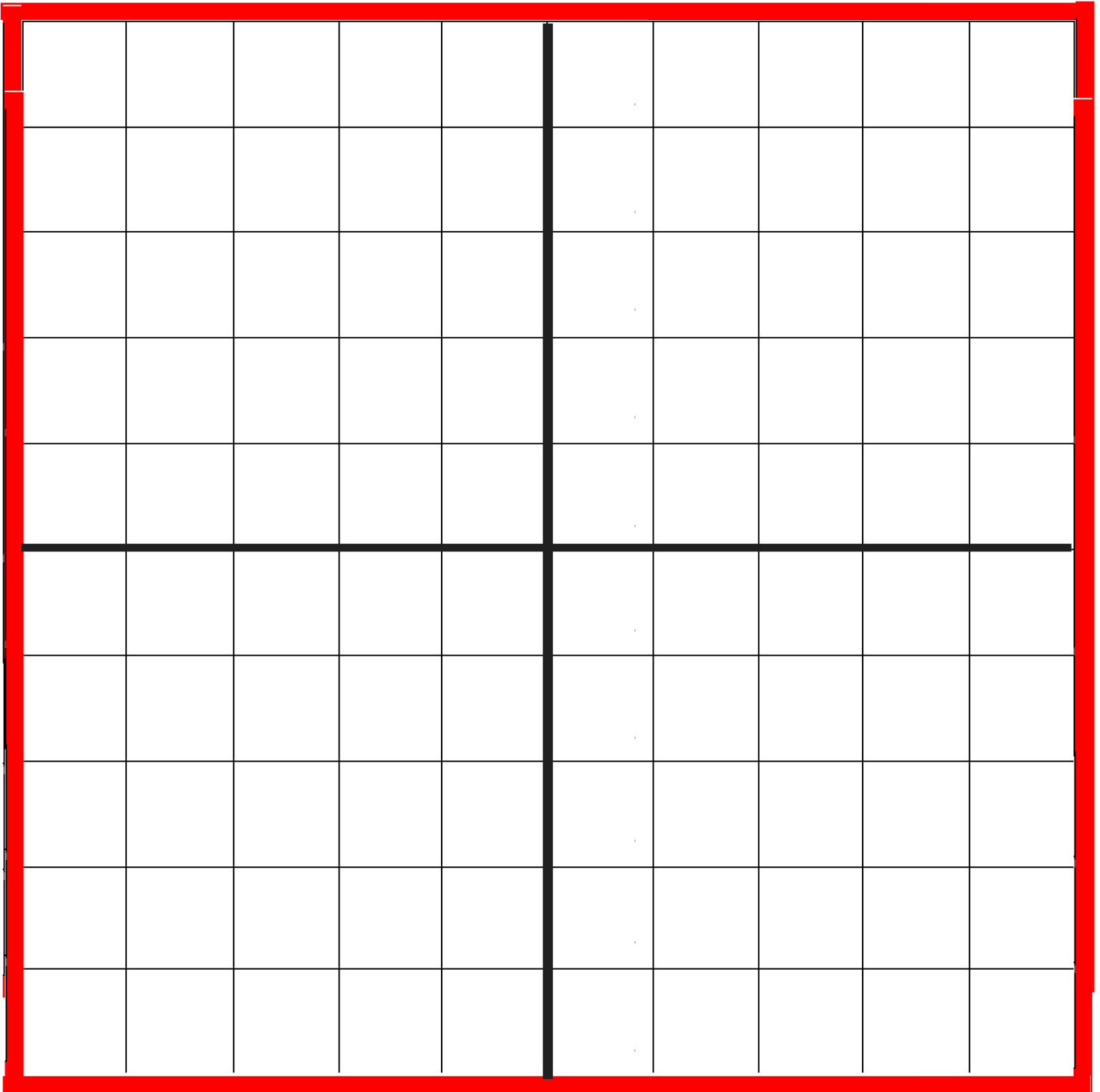
# The “100” 10x10 Challenge

A double Latin Square puzzle designed by Kate Jones  
for the Martin Gardner Centennial – October 21, 2014

<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>
<b>100</b>	<b>100</b>	<i>100</i>	<b>100</b>	100	<b>100</b>	100	<b>100</b>	<b>100</b>	<i>100</i>

1. Cut out the 100 numbers above and place them on the 100 spaces of the grid. Arrange them to meet either or both of these goals:
  - ◆ Each row—10 horizontal, 10 vertical—contains ten different fonts, in any order.
  - ◆ All horizontal and vertical rows have all 10 colors (no duplicates in any row).
  - ◆ Send me a simultaneous solution for both colors and fonts and win a prize!
2. Divide the numbers into four groups of 5 fonts, 5 colors, and place each set of 25 numbers into one of the four 5x5 quadrants of the grid so that:
  - ◆ There are no two of the same color nor font in any row, horizontally, vertically and diagonally. (There are 10 orthogonal and 14 diagonal rows!)

- 3 **After solving Challenge 2, take just one of the 5x5 quadrants with your solution.** Remove any one number from your solution and set it aside. Now slide the numbers horizontally or vertically within the grid, one by one, into a neighboring empty space (no diagonal moves) until you've rearranged them so that all horizontal rows have a single color and all vertical columns are the same font. Leave one space in the right spot to replace the number you took out.



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