MARTIN 6x6 Challenge

A double Sudoku/Slide puzzle designed by Kate Jones
to honor Martin Gardner's birthday – October 21, 2013

M	A	R	T	I	N
M	A	R	T	I	N
M	A	R	T	I	N
M	A	R	T	I	N
M	A	R	T	I	N
M	A	R	T	I	N

1. **Cut out the 36 letters above and place them on the 36 spaces of the grid. Arrange them to meet one, several, or all these goals at the same time:**
   - ◆ Each of 12 rows—6 horizontal, 6 vertical—contains all six letters of the name, MARTIN, in any order. Further, all horizontal and vertical rows contain all six *colors* (no two of the same color in any row).
   - ◆ Have no two letters of the same color touch sides. Corner contact is OK.
   - ◆ Have eighteen 2x3 rectangles (overlap OK) contain all 6 letters and 6 colors.
   - ◆ Have at least 12 diagonal rows with no two of the same color.
   - ◆ Send us a new solution and win a prize.

2. After you've found a solution to Challenge 1:

- ◆ Remove any one letter from your solution and set it aside. Now slide the letters on the grid one by one into a neighboring empty space (no diagonal moves) until you've rearranged them so that all horizontal rows spell MARTIN in the correct order, and each row has a single color, leaving one space in the right spot to replace the letter you removed.
- ◆ Find a sliding solution from any scrambled position of the 36 letters on the grid; remove any one letter at the start and replace it at the end.
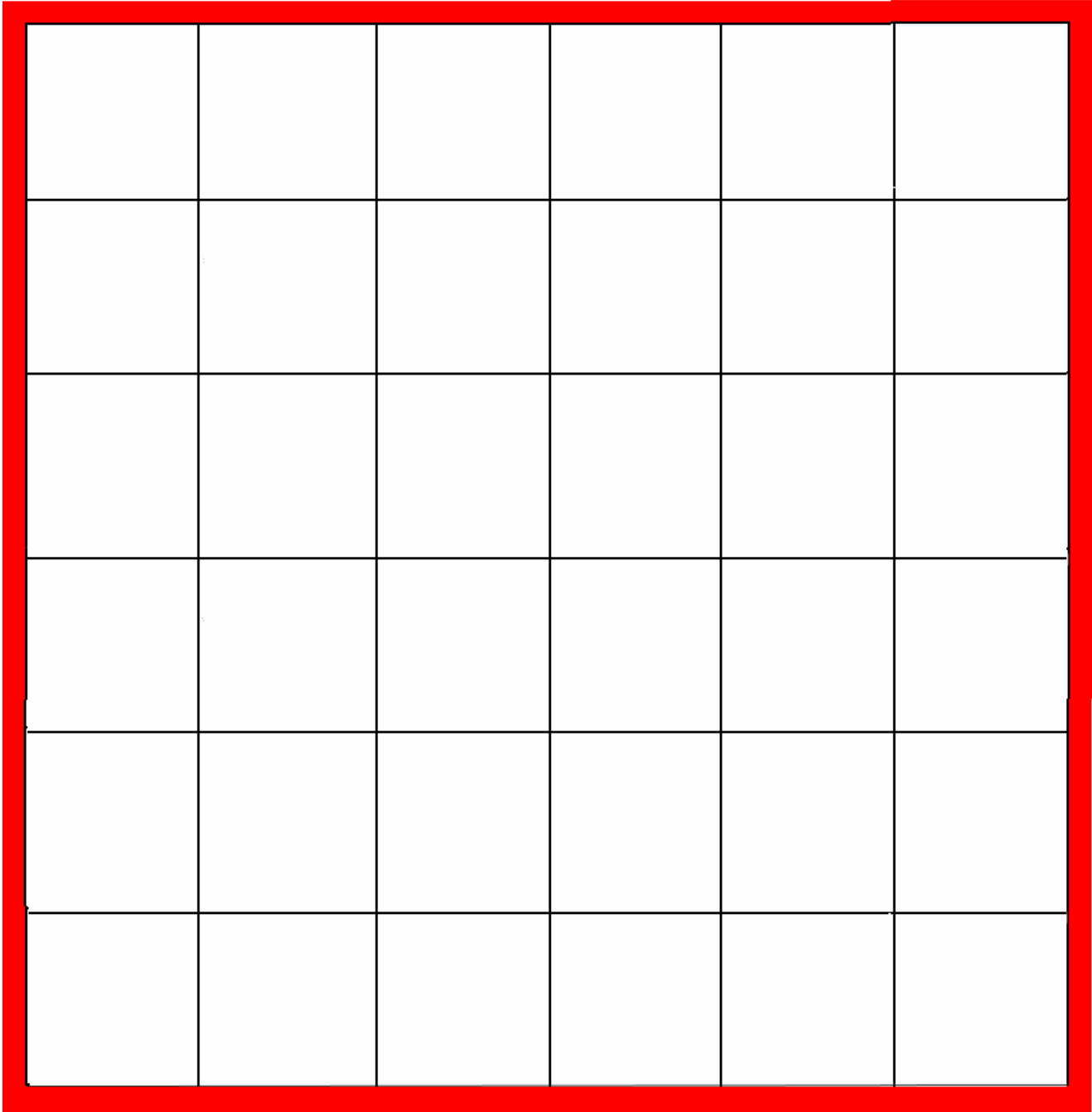
Who is Martin Gardner?

Martin Gardner was one of the most beloved personalities in the areas of recreational mathematics, magic and puzzles. The influence of his work is immeasurable. He was the author of more than 65 books and countless articles, ranging over the fields of science, mathematics, philosophy, literature, and conjuring.

His best-selling book was *The Annotated Alice*, an analysis of Lewis Carroll's *Alice in Wonderland*, followed by a sequel, *More Annotated Alice*. He wrote two novels—*The Flight of Peter Fromm* and *Visitors from Oz*. His *Scientific American* columns are collected in fifteen volumes. *No-Sided Professors* is a collection of his short fiction.

Martin inspired three generations of readers with the delights of mathematical recreations, the amazing phenomena of numbers, magic and puzzles, the play of ideas.

In 1954, a wonderful book, *Polyominoes*, by Solomon Golomb first brought pentominoes, their names and analysis, into the world. And it was Martin's article on pentominoes in 1957 that first popularized this set of shapes and led, through an amazing series of events, to the founding of Kadon Enterprises, Inc. We hold Martin Gardner and his life's work in the highest regard. We were honored when Martin offered us the rights to design and produce the two games he had created—**The Game of Solomon** and **Lewis Carroll's Chess Wordgame**, the latter based on a note in Lewis Carroll's diaries. See them on our website.

Martin Gardner was born October 21, 1914, in Tulsa, Oklahoma, the son of a geologist and oil producer. He graduated at the University of Chicago in 1936 with a major in philosophy. Before World War II he was a reporter on the *Tulsa Tribune*, later a writer in the University of Chicago's press relations office.

After four years as a yeoman in the Navy, Martin returned to Chicago where he began his free-lance career by selling short stories to *Esquire*. After moving to New York City, he became a contributing editor for eight years to *Humpty Dumpty's Magazine*, followed by 25 years as the writer of the "Mathematical Games" column in *Scientific American*.

Martin and his beloved wife, Charlotte, lived for many years in the western mountains of North Carolina, where Kate had the great pleasure of visiting them in 1984. After Charlotte's death he returned to Norman, Oklahoma, in 2004. He continued to write until his death on May 22, 2010, at the age of 95. He is survived by two sons, Jim and Tom. His autobiography, *Undiluted Hocus Pocus*, was published in 2013.

A bi-annual celebration of Martin Gardner's life and work has been held in Atlanta, Georgia, since 1994, founded and hosted by Tom Rodgers, a businessman, scholar and Renaissance man. The **Gathering for Gardner** is an invitation-only get-together for mathematicians, magicians and puzzlers who enjoy sharing their work and play inspired by Martin's writings. A Gathering for Gardner Foundation has been established as a central organization for continuing these biannual events and for the **Celebration of Mind** annual birthday tributes for Martin held every October 21 in dozens of countries.

Kadon hosted its first **Celebration of Mind**, "Polyform Puzzles—the combinatorics of world and mind," on the final weekend of the Maryland Renaissance Festival, 2012. The theme for 2013 is "Polyform Puzzles—Portals of World and Mind." Read more about these fascinating subjects on our website, www.gamepuzzles.com.