Suppose you have a cloth bag with one marble inside either black or white, you don't know which. You add a white marble, shake the bag, and take a marble at random. It's white. What are the odds that the remaining marble is white? Obviously 1/2, right? Wrong. The correct answer is 2/3. This is just one of the scores of intriguing puzzles and paradoxes in this fascinating book. Lewis Carroll's diverse interests ranged from inventing new games like arithmetical croquet to important problems in symbolic logic and propositional calculus. He was famous for his puns, anagrams, acrostics, and riddles and is believed to be the author of a poem that reads the same vertically as horizontally. Some of his word puzzles remain unsolved to this day. His mathematical humor included instructions for folding a handkerchief into a variant of the Klein bottle, as well as proof that if a bag contains two marbles that must be either black or white, there will always be one black and one white. Just as Carroll was the preeminent recreational mathematician of his time (perhaps of all time), Martin Gardner is the preeminent writer on recreational mathematics of our time. He is the ideal guide for this fun and informative tour of Carroll's inventions.

My Personal Review:
The Editorial has single handedly solved a modern dilemma in the world of Mathematics. I do believe it has been said that it is better to be assumed a fool then to open your mouth and remove all doubt. The final conclusion is that the contradiction leads us to realize a possible incompleteness in the system. Here is how:

Solution 1 As the state of the bag, after the operation, is necessarily identical with its state before it, the chance is just what it was, viz. 1/2.
Solution 2  Let B and W1 stand for the black or white counter that may be in the bag at the start and W2 for the added white counter. After removing white counter there are three equally likely states:

Inside bag-----Outside bag
W1------------W2
W2------------W1
B ------------W2

In two of these states a white counter remains in the bag, and so the chance of drawing a white counter the second time is $2/3$. This contradiction of the first solution might indicate that the system offers an incomplete answer (not that the first answer was wrong).

For More 5 Star Customer Reviews and Lowest Price:
The Universe in a Handkerchief: Lewis Carrolls Mathematical Recreations, Games, Puzzles, and Word Plays by Martin Gardner - 5 Star Customer Reviews and Lowest Price!