

The Mathematics of Lottery: Odds, Combinations, Systems

By Catalin Barboianu

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This work is a complete mathematical guide to lottery games, covering all of the problems related to probability, combinatorics, and all parameters describing the lottery matrices, as well as the various playing systems. The mathematics sections describe the mathematical model of the lottery, which is in fact the essence of the lotto game. The applications of this model provide players with all the mathematical data regarding the parameters attached to the gaming events and personal playing systems. By applying these data, one can find all the winning probabilities for the play with one line (for each category in part or cumulatively), and how these probabilities change with playing the various types of systems containing several lines, depending on their structure. Also, each playing system has a formula attached that provides the number of possible multiple prizes in various circumstances. Other mathematical parameters of the playing systems and the correlations between them are also presented. The generality of the mathematical model and of the obtained formulas allows their application for any existent lottery (including variations like Keno) and any playing system. Each formula is followed by numerical results covering the most frequent lottery matrices worldwide and by multiple examples predominantly belonging to the 6/49 lottery. The listing of the numerical results in dozens of well-organized tables, along with instructions and examples of using them, makes possible the direct usage of this guide by players without a mathematical background. The author also discusses from a mathematical point of view the strategies of choosing involved in the lotto game. The book does not offer so-called winning strategies (proving that the only strategy is that of choosing), but helps players to better organize their own playing systems and to confront their own convictions (so many times based on false perceptions) with the incontestable reality offered by the direct applications of the mathematical model of the lotto game. As a must-have handbook for any lottery player, this book offers essential information about the game itself and can provide the basis for gaming decisions of any kind.

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The Mathematics of Lottery: Odds, Combinations, Systems By Catalin Barboianu Bibliography

- Rank: #1836052 in Books
- Brand: Brand: INFAROM
- Published on: 2009-03-09
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x .43" w x 5.98" l, .67 pounds
- Binding: Paperback
- 204 pages

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Editorial Review

About the Author

Catalin Barboianu (born in 1968) is a Romanian mathematician and author , whose fields of expertise and publication are topology, probability theory, mathematical modeling, and philosophy of mathematics. From 2003, his main work was focused on applied mathematics, especially on applications of probability theory in daily life, including in gaming, the outcome being six books on mathematics of gambling, published in several languages. His books have a guide style and are primarily addressed to non-mathematicians, being listed in the official bibliographies of the students of several gaming institutes and organizations around the globe. He also published several articles in leading academic and gaming periodicals,and became a recognized authority on mathematics of games and gambling. He is an active member of MAA (Mathematical Association of America), SIAM (Society for Industrial and Applied Mathematics), and BSPS (British Society for the Philosophy of Science).

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