

# The Moscow Puzzles 359 Mathematical Recreations

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Fedorov Stanley J. Farlow Cardano, Gerolamo Walter William Rouse Ball Yakov Perelman H. E. Dudeney Walter William Rouse Ball Library of Congress Vincent  
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Mathematical Education of Teachers

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*Mathematical Education of Teachers*

a collection of math and logic puzzles features number games magic squares tricks problems with dominoes and dice and cross sums in addition to other intellectual teasers

this is quite simply the best and most popular puzzle book ever published in the soviet union since its first appearance in 1956 there have been eight editions as well as translations from the original russian into ukrainian estonian lettish and lithuanian almost a million copies of the russian version alone have been sold part of the reason for the book s success is its marvelously varied assortment of brainteasers ranging from simple catch riddles to difficult problems none however requiring advanced mathematics many of the puzzles will be new to western readers while some familiar problems have been clothed in new forms often the puzzles are presented in the form of charming stories that provide non russian readers with valuable insights into contemporary russian life and customs in addition martin gardner former editor of the mathematical games department scientific american has clarified and simplified the book to make it as easy as possible for an english reading public to understand and enjoy he has been careful moreover to retain nearly all the freshness warmth and humor of the original lavishly illustrated with over 400 clear diagrams and amusing sketches this inexpensive edition of the first english translation will offer weeks or even months of stimulating entertainment it belongs in the library of every puzzlist or lover of recreational mathematics

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treasury of stimulating challenging brainteasers includes puzzles involving numbers letters probability reasoning whole numbers more the enterprising snail the fly and the bicycles the lovesick cockroaches mr wright and the insurance salesman many others no advanced math needed solutions included

the moscow mathematical olympiad has been challenging high school students with stimulating original problems of different degrees of difficulty for over 75 years

the problems are nonstandard solving them takes wit thinking outside the box and sometimes hours of contemplation some are within the reach of most mathematically competent high school students while others are difficult even for a mathematics professor many mathematically inclined students have found that tackling these problems or even just reading their solutions is a great way to develop mathematical insight in 2006 the moscow center for continuous mathematical education began publishing a collection of problems from the moscow mathematical olympiads providing for each an answer and sometimes a hint as well as one or more detailed solutions this volume represents the years 1993 1999 the problems and the accompanying material are well suited for math circles they are also appropriate for problem solving classes and practice for regional and national mathematics competitions in the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life msri and the ams are publishing books in the mathematical circles library series as a service to young people their parents and teachers and the mathematics profession titles in this series are co published with the mathematical sciences research institute msri

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compiled by a prominent educator and author this volume presents an intriguing mix of mathematical paradoxes phenomena with surprising outcomes that can be resolved mathematically students and puzzle enthusiasts will get plenty of enjoyment mixed with a bit of painless mathematical instruction from 30 conundrums

including the birthday paradox aristotle s magic wheel and a greek tragedy

mathematics was only one area of interest for gerolamo cardano the sixteenth century astrologer philosopher and physician was also a prolific author and inveterate gambler gambling led cardano to the study of probability and he was the first writer to recognize that random events are governed by mathematical laws published posthumously in 1663 cardano s liber de ludo aleae book on games of chance is often considered the major starting point of the study of mathematical probability the italian scholar formulated some of the field s basic ideas more than a century before the better known correspondence of pascal and fermat although his book had no direct influence on other early thinkers about probability it remains an important antecedent to later expressions of the science s tenets

originally published in english by moscow foreign languages pub house 1957

this book includes 110 puzzles not as individual problems but as incidents in connected stories the first 31 are amusingly posed by pilgrims in chaucer s canterbury tales additional puzzles are presented using different characters many require only the ability to exercise logical or visual skills others offer a stimulating challenge to the mathematically advanced

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