

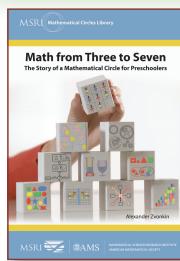
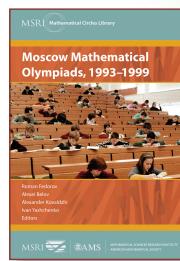
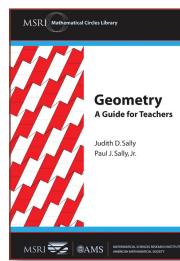
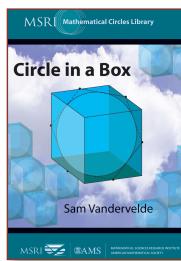
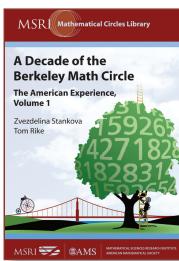


Mathematical Circles Library

Mathematical Circles are gatherings of motivated students and teachers looking for new challenges in mathematics as well as a deeper understanding of the subject. While solving problems is emphasized, the circles also pay considerable attention to mathematical ideas and techniques.

This book series is designed as a resource for leaders and participants in mathematical clubs and circles. Books may also be of interest to parents and teachers.

Titles in this series are co-published with the Mathematical Sciences Research Institute (MSRI).



A Decade of the Berkeley Math Circle

The American Experience, Volume I

Zvezdelina Stankova, Mills College, Oakland, CA, and University of California, Berkeley, CA, and Tom Rike, Oakland High School, CA, Editors

This book uses a dozen sessions presented at the pioneering Berkeley Math Circle to illustrate the variety of topics these extracurricular programs cover in inspiring young people to a lifelong love of mathematics. The book offers a thorough introduction to the structure and content of mathematical circles. It is designed to motivate advanced students, their parents, and teachers of mathematics who are interested in establishing these programs.

Volume 1: 2008; 326 pages; Softcover; ISBN: 978-0-8218-4683-4; List US\$49; AMS members US\$39.20; Order code MCL/1

Circle in a Box

Sam Vandervelde,
St. Lawrence
University, Canton, NY

For those interested in starting and running a math circle, I think it is an invaluable resource.

—MAA Reviews

The first part of this book offers helpful advice on all aspects of math circle operations, culled from conversations with over a dozen directors of successful math circles. The second part of the book outlines ten independent math circle sessions, covering a variety of topics and difficulty levels. Each chapter contains detailed presentation notes along with a useful collection of problems and solutions.

Volume 2: 2009; 217 pages; Softcover; ISBN: 978-0-8218-4752-7; List US\$39; AMS members US\$31.20; Order code MCL/2

Geometry: A Guide for Teachers

Judith D. Sally,
Northwestern
University, Evanston,
IL, and Paul J. Sally,
Jr., University of
Chicago, IL

This geometry book is written for future and current middle school teachers, but is also designed for elementary and high school teachers. The book consists of ten seminars covering the fundamental topics in school geometry. The seminars are crafted to clarify and enhance understanding of the subject. The book is also intended to be a source for problems in geometry for enrichment programs such as Math Circles and Young Scholars.

Volume 3: 2011; 202 pages; Softcover; ISBN: 978-0-8218-5362-7; List US\$39; AMS members US\$31.20; Order code MCL/3

Moscow Mathematical Olympiads, 1993–1999

Roman Fedorov,
Alexei Belov,
Alexander Kovaldzhi,
and Ivan Yashchenko,
Editors

The Moscow Mathematical Olympiad has been challenging high-school students with stimulating, original problems of different degrees of difficulty for over 75 years.

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.

Volume 4: 2011; 220 pages; Softcover; ISBN: 978-0-8218-5363-4; List US\$39; AMS members US\$31.20; Order code MCL/4

Math from Three to Seven

The Story of a Mathematical Circle for Preschoolers

Alexander Zvonkin,
Université Bordeaux I,
Talence, France

This book is a captivating account of a professional mathematician's experiences conducting a math circle for preschoolers in his apartment in Moscow in the 1980s. As anyone who has taught or raised young children knows, mathematical education for little kids is a real mystery. This book does not purport to show you how to create precocious high achievers. It is just one person's story about things he tried with a half-dozen young children. Anyone interested in the intellectual development of young children will find this book to be an invaluable, inspiring resource.

Volume 5: 2011; 300 pages; Softcover; ISBN: 978-0-8218-6873-7; List US\$49; AMS members US\$39.20; Order code MCL/5