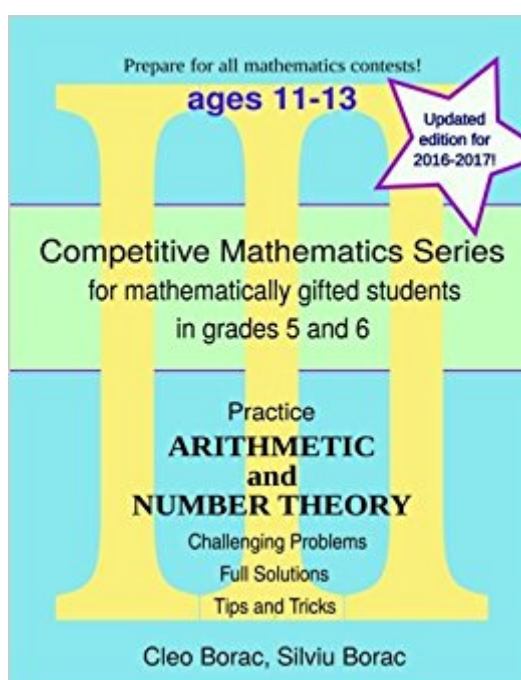


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# Practice Arithmetic And Number Theory: Level 3 (ages 11-13) (Competitive Mathematics For Gifted Students) (Volume 10)



## Synopsis

About “Competitive Mathematics for Gifted Students” • This series provides practice materials and short theory reminders for students who aim to excel at problem solving. Material is introduced in a structured manner: each new concept is followed by a problem set that explores the content in detail. Each book ends with a problem set that reviews both concepts presented in the current volume and related topics from previous volumes. The series forms a learning continuum that explores strategies specific to competitive mathematics in depth and breadth. Full solutions explain both reasoning and execution. Often, several solutions are contrasted. The problem selection emphasizes comprehension, critical thinking, observation, and avoiding repetitive and mechanical procedures. Ready to participate in a math competition such as AMC-8, AMC-10, Math Kangaroo in USA, Math Leagues, USAMTS, or AIME? This series will open the doors to consistent performance.

**About Level 3** This level of the series is designed for students who can solve linear equations, are fluent with fractions, and can factor into primes. The problem sets are designed to strengthen specific areas where we know students have difficulty on AMC-8 and AMC-10. The level 3 books are a strong preparation for AMC-8 and a partial preparation for AMC-10 and AIME. Level 3 consists of: Word Problems (volume 9), Arithmetic and Number Theory (volume 10), Operations and Algebra (volume 11), Geometry (volume 12), and Combinatorics (volume 13). On the contest list for this level: MATHCOUNTS, Math Kangaroo levels 5-6 and 7-8, MOEMS-M, Purple Comet, AMC-8, AMC-10. The computational complexity makes these problem sets useful for preparing the AIME in the long run.

**About Volume 10 - Arithmetic and Number Theory** The problem sets reflect the use of the most elementary facts of number theory in challenging ways. Instead of imitating contest problems, we have focused on presenting questions that explore the nuts and bolts used to create problems. This volume is particularly suitable for young students who aim to do well on AIME in later years and have the patience to explore the elementary facts of number theory in depth. We continue in level 4 with more advanced number theory. Fluency with order of operations and the ability to handle simple algebraic expressions are pre-requisites.

## Book Information

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Very useful and practical resource book, my both boys use and benefit from it/willa

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