



## The Heart of Mathematics: An Invitation to Effective Thinking, 4th Edition

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### DESCRIPTION

Transform your mathematics course into an engaging and mind-opening experience for even your most math-phobic students. Now in its Fourth Edition, *The Heart of Mathematics: An Invitation to Effective Thinking* succeeds at reaching non-math, non-science-oriented majors, encouraging them to discover the mathematics inherent in the world around them. Infused with the authors' humor and enthusiasm throughout, *The Heart of Mathematics* introduces students to the most important and interesting ideas in mathematics while inspiring them to actively engage in mathematical thinking.

### ABOUT THE AUTHOR

**Dr. Edward Burger** is a professor mathematics at Williams College in Williamstown, MA. He received his BA from Connecticut College and his PhD from University of Texas at Austin.

He has received numerous awards including: the *Nelson Bushnell Prize*, for Scholarship and Teaching, Williams College, being listed among the top 100 best Math Teachers in the "100 Best of America", Reader's Digest's Annual Special Issue. He has also received the *Award of Excellence*, for "educational mathematics videos that break new ground", from *Technology & Learning* magazine.

His research interests include Algebraic Number Theory, Diophantine Analysis,  $p$ -adic Analysis, Geometry of Numbers, and the Theory of Continued Fractions.

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## NEW TO EDITION

- “For the Algebra Lover” Mindscapes in each section. These problems were added for students who want to practice their computational skills and for professors who prefer to integrate more algebra into this course.
  - Chapter 6 on graph theory.
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## FEATURES

- Accessible, student-friendly writing style engages students to read and understand the concepts and encourages critical thinking.
- “Life Lessons” offer effective methods of thinking that students will retain and apply beyond the classroom.
- End-of-section Mindscape activities for the development of application, problem solving, and argumentation skills.
- Activities that encourage collaborative learning and group work like the hands-on manipulative kit that directs students to model their thinking and actively explore the world around them.
- “A Look Back” provide a review of concepts taught in that section
- Technology Icon located throughout the book indicates that there’s an interactive activity available online (e-manipulatives)
- Visual techniques that inspire students to model their thinking and actively explore the world around them.

• WileyPLUS, for *The Heart of Mathematics: An Invitation to Effective Thinking*, 4th Edition, provides a research based, online environment for effective teaching and learning. WileyPLUS builds students' confidence because it takes the guesswork out of studying by providing students with a clear roadmap: what to do, how to do it, if they did it right.

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