



Basic Mathematics for College Students (Available Titles CourseMate)

By Alan S. Tussy, R. David Gustafson, Diane Koenig



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Offering a uniquely modern, balanced approach, Tussy/Gustafson/Koenig's BASIC MATHEMATICS FOR COLLEGE STUDENTS, Fourth Edition, integrates the best of traditional drill and practice with the best elements of the reform movement. To many developmental math students, mathematics is like a foreign language. They have difficulty translating the words, their meanings, and how they apply to problem solving. Emphasizing the "language of mathematics," the text's fully integrated learning process is designed to expand students' reasoning abilities and teach them how to read, write, and think mathematically. It blends instructional approaches that include vocabulary, practice, and well-defined pedagogy with an emphasis on reasoning, modeling, communication, and technology skills.

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Editorial Review

Review

1. WHOLE NUMBERS. An Introduction to the Whole Numbers. Adding Whole Numbers. Subtracting Whole Numbers. Multiplying Whole Numbers. Dividing Whole Numbers. Problem Solving. Prime Factors and Exponents. The Least Common Multiple and the Greatest Common Factor. Order of Operations. Chapter Summary and Review. Chapter Test. 2. THE INTEGERS. An Introduction to the Integers. Solve Application Problems by Adding Integers. Solve Application Problems by Subtracting Integers. Solve Application Problems by Multiplying Integers. Solve Application Problems by Dividing Integers. Order of Operations and Estimation. Chapter Summary and Review. Chapter Test. Cumulative Review. 3. FRACTIONS AND MIXED NUMBERS. An Introduction to Fractions. Multiplying Fractions. Dividing Fractions. Adding and Subtracting Fractions. Multiplying and Dividing Mixed Numbers. Adding and Subtracting Mixed Numbers. Order of Operations and Complex Fractions. Chapter Summary and Review. Chapter Test. Cumulative Review. 4. DECIMALS. An Introduction to Decimals. Adding and Subtracting Decimals. Multiplying Decimals. Dividing Decimals. Fractions and Decimals. Square Roots. Chapter Summary and Review. Chapter Test. Cumulative Review. 5. RATIO, PROPORTION, AND MEASUREMENT. Ratios. Proportions. American Units of Measurement. Metric Units of Measurement. Converting Between American and Metric Units. Chapter Summary and Review. Chapter Test. Cumulative Review. 6. PERCENT. Percents, Decimals, and Fractions. Solving Percent Problems Using Equations and Proportions. Applications of Percents. Estimation with Percent. Interest. Chapter Summary and Review. Chapter Test. Cumulative Review. 7. GRAPHS AND STATISTICS. Reading Graphs and Tables. Mean, Median, and Mode. Chapter Summary and Review. Chapter Test. Cumulative Review. 8. AN INTRODUCTION TO ALGEBRA. The Language of Algebra. Simplifying Algebraic Expressions. Solving Equations Using Properties of Equality. More About Solving Equations. Using Equations to Solve Application Problems. Multiplication Rules for Exponents. Chapter Summary and Review. Chapter Test. Cumulative Review. 9. AN INTRODUCTION TO GEOMETRY. Basic Geometric Figures; Angles. Parallel and Perpendicular Lines. Triangles. The Pythagorean Theorem. Congruent Triangles and Similar Triangles. Quadrilaterals and Other Polygons. Perimeters and Areas of Polygons. Circles. Volume. Chapter Summary and Review. Chapter Test. Cumulative Review. Appendix I: Addition and Multiplication Facts. Appendix II: Polynomials. Appendix III: Inductive and Deductive Reasoning. Appendix IV: Roots and Powers. Appendix X: Answers to Selected Exercises.

About the Author

: Alan Tussy teaches all levels of developmental mathematics at Citrus College in Glendora, CA. He has written nine math books—a paperback series and a hard-cover series. An extraordinary author, he is dedicated to his students' success, relentlessly meticulous, creative, and a visionary who maintains a keen focus on his students' greatest challenges. Alan received his Bachelor of Science degree in Mathematics from the University of Redlands and his Master of Science degree in Applied Mathematics from California State University, Los Angeles. He has taught up and down the curriculum from prealgebra to differential equations. He is currently focusing on the developmental math courses. Professor Tussy is a member of the American Mathematical Association of Two-Year Colleges.

R. David Gustafson is Professor Emeritus of Mathematics at Rock Valley College in Illinois and has also taught extensively at Rockford College and Beloit College. He is coauthor of several best-selling mathematics textbooks, including Gustafson/Frisk/Hughes' COLLEGE ALGEBRA, Gustafson/Karr/Massey's BEGINNING ALGEBRA, INTERMEDIATE ALGEBRA, BEGINNING AND

INTERMEDIATE ALGEBRA, BEGINNING AND INTERMEDIATE ALGEBRA: A COMBINED APPROACH, and the Tussy/Gustafson and Tussy/Gustafson/Koenig developmental mathematics series. His numerous professional honors include Rock Valley Teacher of the Year and Rockford's Outstanding Educator of the Year. He has been very active in AMATYC as a Midwest Vice-president and has been President of IMACC, AMATYC's Illinois affiliate. He earned a Master of Arts from Rockford College in Illinois, as well as a Master of Science from Northern Illinois University.

Diane Koenig received a Bachelor of Science degree in Secondary Math Education from Illinois State University in 1980. She began her career at Rock Valley College in 1981, when she became the Math Supervisor for the newly formed Personalized Learning Center. Earning her Master's Degree in Applied Mathematics from Northern Illinois University, Ms. Koenig in 1984 had the distinction of becoming the first full-time woman mathematics faculty at Rock Valley College. In addition to being nominated for AMATYC's Excellence in Teaching Award, Diane Koenig was chosen as the Rock Valley College Faculty of the Year by her peers in 2005, and, in 2006, she was awarded the NISOD Teaching Excellence Award as well as the Illinois Mathematics Association of Community Colleges Award for Teaching Excellence. In addition to her teaching, Ms. Koenig has been an active member of the Illinois Mathematics Association of Community Colleges (IMACC). As a member, she has served on the board of directors, on a state-level task force rewriting the course outlines for the developmental mathematics courses, and as the association's newsletter editor.

Users Review

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