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Nota di contenuto	Cover -- Table of Contents -- 1. Problem Solving and Critical Thinking -- 1. Inductive and Deductive Reasoning -- 2. Estimation, Graphs, and Mathematical Models -- 3. Problem Solving -- 4. Chapter Summary, Review, and Test -- 2. Set Theory -- 1. Basic Set Concepts -- 2. Subsets -- 3. Venn Diagrams and Set Operations -- 4. Set Operations and Venn Diagrams with Three Sets -- 5. Survey Problems -- Chapter Summary, Review, and Test -- 3. Logic -- 1. Statements, Negations, and Quantified Statements -- 2. Compound Statements and Connectives -- 3. Truth Tables for Negation, Conjunction, and Disjunction -- 4. Truth Tables for the Conditional and the Biconditional -- 5. Equivalent Statements and Variations of Conditional Statements -- 6. Negations of Conditional Statements and De Morgan's Laws -- 7. Arguments and Truth Tables -- 8. Arguments and Euler Diagrams -- Chapter Summary, Review, and Test -- 4. Number Representation and Calculation -- 1. Our Hindu-Arabic System and Early Positional Systems -- 2. Number Bases in Positional Systems -- 3. Computation in Positional Systems -- 4. Looking Back at Early Numeration Systems -- Chapter Summary, Review, and Test -- 5. Number Theory and the Real Number System -- 1. Number Theory: Prime and Composite Numbers -- 2. The Integers -- Order of Operations -- 3. The Rational Numbers -- 4. The Irrational Numbers -- 5. Real Numbers and Their Properties

-- 6. Exponents and Scientific Notation -- 7. Arithmetic and Geometric Sequences -- Chapter Summary, Review, and Test -- 6. Algebra: Equations and Inequalities -- 1. Algebraic Expressions and Formulas -- 2. Linear Equations in One Variable and Proportions -- 3. Applications of Linear Equations -- 4. Linear Inequalities in One Variable -- 5. Quadratic Equations -- Chapter Summary, Review, and Test -- 7. Algebra: Graphs, Functions, and Linear Systems. 1. Graphing and Functions -- 2. Linear Functions and Their Graphs -- 3. Systems of Linear Equations in Two Variables -- 4. Linear Inequalities in Two Variables -- 5. Linear Programming -- 6. Modeling Data: Exponential, Logarithmic, and Quadratic Functions -- Chapter Summary, Review, and Test -- 8. Consumer Mathematics and Financial Management -- 1. Percent, Sales Tax, and Income Tax -- 2. Simple Interest -- 3. Compound Interest -- 4. Annuities, Stocks, and Bonds -- 5. Installment Loans, Amortization, and Credit Cards -- Chapter Summary, Review, and Test -- 9. Measurement -- 1. Measuring Length -- The Metric System -- 2. Measuring Area and Volume -- 3. Measuring Weight and Temperature -- Chapter Summary, Review, and Test -- 10. Geometry -- 1. Points, Lines, Planes, and Angles -- 2. Triangles -- 3. Polygons, Perimeter, and Tessellations -- 4. Area and Circumference -- 5. Volume -- 6. Right Triangle Trigonometry -- 7. Beyond Euclidean Geometry -- Chapter Summary, Review, and Test -- 11. Counting Methods and Probability Theory -- 1. The Fundamental Counting Principle -- 2. Permutations -- 3. Combinations -- 4. Fundamentals of Probability -- 5. Probability with the Fundamental Counting Principle, Permutations, and Combinations -- 6. Events Involving Not and Or -- Odds -- 7. Events Involving And -- Conditional Probability -- 8. Expected Value -- Chapter Summary, Review, and Test -- 12. Statistics -- 1. Sampling, Frequency Distributions, and Graphs -- 2. Measures of Central Tendency -- 3. Measures of Dispersion -- 4. The Normal Distribution -- 5. Problem Solving with the Normal Distribution -- 6. Scatter Plots, Correlation, and Regression Lines -- Chapter Summary, Review, and Test -- 13. Mathematical Systems -- 1. Mathematical Systems -- 2. Rotational Symmetry, Groups, and Clock Arithmetic -- Chapter Summary, Review, and Test -- 14. Voting and Apportionment. 1. Voting Methods -- 2. Flaws of Voting Methods -- 3. Apportionment Methods -- 4. Flaws of Apportionment Methods -- Chapter Summary, Review, and Test -- Index -- 6.

Sommario/riassunto

Blitzer continues to raise the bar with his engaging applications developed to motivate students from diverse majors and backgrounds. Thinking Mathematically, Fifth Edition, draws from the author's unique background in art, psychology, and math to present math in the context of real-world applications. Students in this course are not math majors, and they may never take a subsequent math course, so they are often nervous about taking the class. Blitzer understands those students' needs and provides helpful tools in every chapter to help them master the material. Voice balloons appear right when students need them, showing what an instructor would say when leading a student through the problem. Study tips, chapter review grids, Chapter Tests, and abundant exercises provide ample review and practice. The Fifth Edition's MyMathLab® course boasts more than 2,000 assignable exercises, plus a new question type for applications-driven questions that correlate to section openers in the textbook. Chapter Test Prep Videos show students how to work out solutions to the Chapter Tests; the videos are available on DVD, in MyMathLab, and on YouTube™.

