



## Mathematics for Elementary School Teachers

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By Bassarear, Tom

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Summary: Contents Note: Each chapter concludes with an Investigation, Exercise, a Chapter Summary and Review Exercises.

1. Foundations for Learning Mathematics Section 1.1 Getting Comfortable with Mathematics Section 1.2 Problem-Solving Section 1.3 Patterns Section 1.4 Representation Section 1.5 Reasoning and Proof Section 1.6 Communication Section 1.7 Connections 2. Fundamental Concepts Section 2.1 Sets Section 2.2 Algebraic Thinking Section 2.3 Numeration 3. The Four Fundamental Operations of Arithmetic Section 3.1 Understanding Addition Section 3.2 Understanding Subtraction Section 3.3 Understanding Multiplication Section 3.4 Understanding Division 4. Number Theory Section 4.1 Divisibility and Related Concepts Section 4.2 Prime and Composite Numbers Section 4.3 Greatest Common Factor and Least Common Multiple 5. Extending the Number System Section 5.1 Integers Section 5.2 Fractions and Rational Numbers Section 5.3 Understanding Operations with Fractions Section 5.4 Beyond Integers and Fractions: Decimals, Exponents, and Real Numbers 6. Proportional Reasoning Section 6.1 Ratio and Proportion Section 6.2 Percents 7. Uncertainty: Data and Chance Section 7.1 Representing and Interpreting Data Section 7.2 Distributions: Centers and Spreads Section 7.3 Concepts Related to Chance Section 7.4 Counting and Chance 8. Geometry as Shape Section 8.1 Basic...



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