

aimsweb math computation probes

aimsweb math computation probes are a crucial tool in the world of educational assessment, designed to measure students' mathematical computation skills quickly and efficiently. These probes are central to monitoring progress, identifying areas of struggle, and informing instruction for students at various grade levels. In this comprehensive article, you will discover what aimsweb math computation probes are, how they function, their benefits for teachers and students, and best practices for effective implementation. We will also explore the structure of these probes, strategies for interpreting results, and their role in Response to Intervention (RTI) frameworks. Whether you are an educator, administrator, or parent, understanding aimsweb math computation probes will empower you to support student achievement in mathematics. The following sections will guide you through everything you need to know about leveraging these assessment tools for maximum educational impact.

- Understanding aimsweb Math Computation Probes
- The Structure and Content of Math Computation Probes
- Benefits of Using aimsweb Math Computation Probes
- Implementing Math Computation Probes in the Classroom
- Interpreting Results and Data Analysis
- Role of Computation Probes in RTI and Progress Monitoring
- Best Practices for Effective Use
- Common Challenges and Solutions

Understanding aimsweb Math Computation Probes

Definition and Purpose

aimsweb math computation probes are standardized, timed assessments that focus on basic arithmetic operations such as addition, subtraction, multiplication, and division. These probes are designed to provide educators with a quick and reliable way to screen, monitor, and track student progress in math computation skills. As part of the broader aimsweb system, computation probes help identify students who may need extra support or intervention in mathematics.

Targeted Skills and Grade Levels

aimsweb math computation probes are aligned with grade-level expectations and

standards, targeting fundamental computation skills required for success in elementary and middle school mathematics. The probes are available for various grade levels, ensuring that the content matches the developmental stage of the students being assessed. This alignment helps educators accurately identify gaps in computation proficiency and tailor instruction accordingly.

The Structure and Content of Math Computation Probes

Format and Administration

Each aimsweb math computation probe consists of a set of math problems presented in a clear, concise format. Students are typically given a limited amount of time—usually one to two minutes—to solve as many problems as possible. The probes are administered individually or in small groups, and results are recorded to measure accuracy and fluency in basic math operations.

Types of Problems Included

- Single-digit and multi-digit addition
- Single-digit and multi-digit subtraction
- Multiplication facts and multi-digit multiplication
- Division facts and long division

The variety of problems ensures a comprehensive assessment of students' computation skills and helps pinpoint specific areas needing improvement.

Benefits of Using aimsweb Math Computation Probes

Efficient Progress Monitoring

aimsweb math computation probes provide a fast and efficient way for educators to monitor students' progress in core math skills. The standardized nature of the assessment allows for frequent administration, making it possible to track growth over time and respond quickly to learning needs.

Data-Driven Instruction

With clear data from computation probes, teachers can make informed decisions about instructional strategies and interventions. The results highlight specific computation skills that require reinforcement, enabling educators to differentiate instruction and personalize learning experiences.

Early Identification of Struggling Students

Regular use of aimsweb math computation probes helps identify students who may be at risk for math difficulties. Early identification allows for timely intervention, increasing the likelihood of academic success and reducing the need for intensive remediation later on.

Implementing Math Computation Probes in the Classroom

Steps for Administration

1. Select appropriate grade-level probes for your students.
2. Schedule regular assessment intervals (weekly, biweekly, or monthly).
3. Explain the probe process and timing to students to set expectations.
4. Administer the probe in a distraction-free environment.
5. Collect and score student responses promptly.

Consistency in administration is essential for reliable data and effective progress monitoring.

Integrating Probes into Instructional Routines

Math computation probes can be seamlessly integrated into existing classroom routines. Teachers often use probe results to form small intervention groups, adjust lesson plans, or provide targeted practice in areas identified as weak. This ongoing process supports data-driven instruction and continuous improvement in math achievement.

Interpreting Results and Data Analysis

Scoring and Benchmarking

After administering aimsweb math computation probes, educators score the number of correct responses within the allotted time. These scores are compared to established benchmarks for each grade level, helping determine whether students are performing at, above, or below expected standards.

Using Data to Guide Instruction

Analysis of probe data provides actionable insights for teachers. By reviewing patterns in errors and accuracy, educators can identify specific math concepts or operations that require additional instruction. Regular data review also helps track the effectiveness of interventions and adjust teaching strategies as needed.

Role of Computation Probes in RTI and Progress Monitoring

Integration with RTI Frameworks

aimsweb math computation probes play a pivotal role in Response to Intervention (RTI) frameworks. As Tier 1 universal screeners, they help identify students who need additional support. In Tiers 2 and 3, probes are used for targeted progress monitoring to evaluate the impact of interventions and adjust instructional approaches accordingly.

Benefits for Special Education and Intervention Programs

These probes are especially valuable in special education settings, where timely and accurate data is essential for developing individualized education programs (IEPs) and measuring student growth. The ability to track progress frequently ensures that interventions are responsive and effective.

Best Practices for Effective Use

Ensuring Reliability and Validity

To maximize the impact of aimsweb math computation probes, educators should maintain consistency in administration, scoring, and interpretation. Training staff in probe procedures and data analysis helps ensure reliability and validity of results.

Using Results for Instructional Decisions

- Form intervention groups based on probe data.
- Adjust pacing and focus of math instruction.
- Communicate progress with parents and stakeholders.
- Document growth for IEPs and progress reports.

Effective use of computation probe data leads to more targeted and responsive teaching strategies.

Common Challenges and Solutions

Addressing Test Anxiety

Some students may experience anxiety during timed assessments. Providing practice opportunities, clear instructions, and a supportive environment can help alleviate stress and improve performance.

Ensuring Equity and Accessibility

To ensure all students have equal access to aimsweb math computation probes, educators should consider accommodations for students with disabilities or English language learners. Adjustments such as extended time or simplified instructions can help ensure valid assessment results for all learners.

Maintaining Data Quality

Accurate administration and scoring are critical for data quality. Regular training and calibration among staff can help minimize errors and inconsistencies, ensuring that probe results truly reflect student abilities.

Trending Questions and Answers about aimsweb math computation probes

Q: What are aimsweb math computation probes designed to assess?

A: aimsweb math computation probes are designed to assess students' proficiency and fluency in basic math operations, including addition,

subtraction, multiplication, and division.

Q: How often should aimsweb math computation probes be administered?

A: aimsweb math computation probes are typically administered on a regular schedule, such as weekly, biweekly, or monthly, depending on the needs of the students and the goals of the assessment program.

Q: What grade levels are covered by aimsweb math computation probes?

A: aimsweb math computation probes are available for various grade levels, primarily targeting elementary and middle school students to ensure developmental appropriateness.

Q: How do teachers use data from math computation probes?

A: Teachers use data from computation probes to monitor student progress, identify areas for intervention, adjust instruction, and communicate results to parents and other stakeholders.

Q: What types of math problems are included in aimsweb computation probes?

A: Problems include single-digit and multi-digit addition, subtraction, multiplication, and division, providing a comprehensive assessment of computation skills.

Q: How do computation probes fit into RTI frameworks?

A: Computation probes serve as universal screeners in Tier 1 and as progress monitoring tools in Tiers 2 and 3, supporting targeted intervention and data-driven decision making.

Q: What accommodations can be made for students during aimsweb math computation probes?

A: Accommodations such as extended time, simplified instructions, or alternative formats can be provided for students with disabilities or English language learners.

Q: How do aimsweb math computation probes help in early identification of math difficulties?

A: Frequent probe administration allows educators to quickly identify students who are struggling and implement timely interventions to address math difficulties.

Q: What is the recommended environment for administering computation probes?

A: Probes should be administered in a quiet, distraction-free environment to ensure valid and reliable results.

Q: Can aimsweb math computation probes be used for individual and group assessment?

A: Yes, aimsweb math computation probes can be administered to individual students or small groups, depending on assessment goals and classroom needs.

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AIMSweb Math Computation Probes: A Comprehensive Guide

Are you a teacher, administrator, or parent struggling to accurately assess a student's math computation skills? Feeling overwhelmed by the sheer volume of assessment tools available? This comprehensive guide dives deep into AIMSweb Math Computation Probes, explaining what they are, how they're used, their benefits, and potential limitations. We'll explore everything you need to know to effectively utilize these valuable assessment tools for improving student outcomes in mathematics.

What are AIMSweb Math Computation Probes?

AIMSweb Math Computation Probes are short, standardized assessments designed to measure a student's fluency and accuracy in performing basic math calculations. Unlike lengthy, complex tests, these probes focus on specific skills, allowing for efficient and targeted monitoring of progress in key areas such as addition, subtraction, multiplication, and division. They provide a reliable and valid measure of a student's computational proficiency, enabling educators to identify students who need additional support and track the effectiveness of interventions. The probes are typically administered frequently (e.g., weekly or bi-weekly), providing ongoing data to inform instructional decisions.

Key Features of AIMSweb Math Computation Probes:

Standardized format: Ensures consistent administration and scoring across different settings and educators.

Short duration: Minimizes testing time, maximizing instructional time.

Specific skill focus: Targets individual computational skills for precise identification of strengths and weaknesses.

Frequent monitoring: Allows for real-time tracking of student progress and immediate adjustment of instruction.

Data-driven decision making: Provides objective data to inform instructional practices and intervention strategies.

How AIMSweb Math Computation Probes are Used in Practice

AIMSweb Math Computation Probes are typically administered individually or in small groups. The student completes a set number of problems within a specific time limit. The results are then scored based on accuracy and speed, providing quantitative data on the student's performance. This data is crucial for:

1. Identifying Students Needing Support:

Probes quickly highlight students struggling with specific computational skills, allowing for early intervention and preventing learning gaps from widening.

2. Monitoring Progress:

Regular administration allows educators to track a student's progress over time, demonstrating the effectiveness of interventions and adjustments to instruction.

3. Informing Instructional Decisions:

Data from the probes informs teachers about which skills require additional focus and guides the selection of appropriate instructional materials and strategies.

4. Evaluating Interventions:

The data provides objective evidence of the effectiveness of various interventions, allowing educators to refine their approach and maximize student success.

5. Communicating with Parents and Stakeholders:

The clear, quantitative data provided by the probes facilitates effective communication with parents and other stakeholders regarding a student's progress and areas for improvement.

Benefits of Using AIMSweb Math Computation Probes

The use of AIMSweb Math Computation Probes offers numerous benefits for both educators and students:

Early identification of learning difficulties: Probes identify struggling students early, enabling timely intervention.

Efficient and effective assessment: Short, targeted assessments maximize instructional time.

Data-driven instruction: Objective data guides instructional decisions, ensuring targeted support.

Objective progress monitoring: Tracks student growth over time, demonstrating the impact of instruction.

Improved student outcomes: Early intervention and targeted instruction lead to improved academic performance.

Limitations of AIMSweb Math Computation Probes

While highly beneficial, it's crucial to acknowledge potential limitations:

Limited scope: Probes focus primarily on basic computational skills and may not capture the full spectrum of mathematical abilities.

Over-reliance on data: Data should be interpreted in conjunction with other assessment measures and qualitative observations.

Potential for bias: Factors like test anxiety can influence performance, requiring careful interpretation of results.

Cost considerations: The purchase and implementation of AIMSweb may involve costs for software, training, and materials.

Conclusion

AIMSweb Math Computation Probes represent a valuable tool for educators seeking to efficiently and effectively assess and improve students' math computation skills. Their standardized format, short duration, and frequent monitoring capabilities provide crucial data for early intervention, targeted instruction, and progress tracking. However, it's vital to consider their limitations and use them in conjunction with other assessment methods for a comprehensive understanding of student learning. By strategically integrating AIMSweb into your assessment plan, you can significantly enhance your ability to support student success in mathematics.

Frequently Asked Questions (FAQs)

1. Are AIMSweb Math Computation Probes aligned with Common Core State Standards? Many versions of AIMSweb are aligned with Common Core State Standards, but it's crucial to verify alignment with your specific state's standards.
2. How often should AIMSweb Math Computation Probes be administered? The frequency depends on individual student needs and the specific goals of instruction, but weekly or bi-weekly administration is common for progress monitoring.
3. What training is required to administer and interpret AIMSweb Math Computation Probes? Many districts provide training; however, understanding basic psychometric principles is beneficial for accurate interpretation.
4. Are there different versions of AIMSweb Math Computation Probes for different grade levels? Yes, AIMSweb offers probes designed for a range of grade levels, addressing age-appropriate computational skills.
5. How are the results of AIMSweb Math Computation Probes used to inform instructional planning? The data identifies specific areas of strength and weakness, guiding the selection of targeted instructional activities and materials.

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Assessment and Intervention brings together divergent approaches in order to demonstrate that scientific evidence, rather than biases or previous practice, must determine assessment practices that are selected and used for particular purposes. Similar to a handbook in its comprehensive topical coverage, this edited collection provides a contextual foundation for academic assessment and intervention; describes both norm-referenced and curriculum-based assessment/measurement in detail; considers the implications of both of these assessments on ethnically diverse populations; provides a clear link between assessment, evidence-based interventions and the RTI model; and considers other important topics related to this area such as teacher behavior. Intended primarily for graduate-level courses in education, school psychology, or child clinical psychology, it will also be of interest to practicing professionals in these fields.

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targeted resource discusses the innovations of RTI, differentiated instruction, and instructional technologies. Based on numerous real-world case studies, this book explores solutions for the complex challenges the RTI implementation process brings

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Skills Problems, Fifth Edition.

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precede strands that focus on critical concepts. Replete with suggestions for class activities and field extensions, the new edition features current research across topics and an innovative thread throughout chapters and strands: multi-tiered systems of support as they apply to mathematics instruction.

aimsweb math computation probes: The Essential Guide to RTI Silvia L. DeRuvo, 2010-08-13 A practical, hands-on guide that helps teachers fulfill the promise of RTI Filled with practical tools and step-by-step guidelines, this book shows teachers how to implement RTI effectively. This valuable resource helps teachers assess a school's or classroom's readiness to begin the implementation process, and offers extensive resources to help educators identify appropriate screening and progress monitoring tools for students. DeRuvo provides dozens of effective research-based interventions and instructional strategies that teachers can implement immediately in their classrooms, and offers guidelines for selecting additional curricula and strategies to support students with diverse needs. Includes easy and efficient progress monitoring strategies to measure RTI effectiveness Written by veteran educator and active teacher trainer, Silva DeRuvo Provides helpful advice for effective collaboration between teachers The book includes strategies for joint curriculum mapping, as well as for measuring student mastery of identified content area standards.

aimsweb math computation probes: RTI Success Elizabeth Whitten, Kelli J. Esteves, Alice Woodrow, 2020-06-30 Accessible, hands-on RTI guidance and strategies for educators at all grade levels This practical, ready-to-use resource gives teachers and administrators the tools to successfully implement RTI or strengthen an existing program to target students' specific needs. Response to Intervention allows educators to assess and meet the needs of struggling students before they have fallen too far behind. Three expert authors explore this multi-tiered system of support (MTSS), offering over one hundred research-based, instructional techniques and interventions for use in diverse settings, advice on creating personal and positive learning environments, information on co-teaching, and approaches to purposeful grouping. Included in the book and as digital downloads are easy-to-use customizable forms to streamline assessment, implementation, and documentation. Also included is an extensive list of references and resources for further exploration.

aimsweb math computation probes: Purposeful Co-Teaching Greg Conderman, Val Bresnahan, EdD, Special Education Teacher, Theresa Pedersen, 2008-10-15 A valuable desktop reference for all educators devoted to increased student outcomes within a positive, effective co-teaching partnership. Each chapter contains practical strategies and tips to take you from Monday to Friday! —Julia R. Wachal, Special Education Consultant Grantwood Area Education Agency, IA One of the best books I've read on what co-teaching really means and how it is implemented in the classroom. The authors present instructional methods and interpersonal communication skills that co-teachers can use to solve typical issues. —Michael Hazelkorn, Chair and Professor of Special Education University of West Georgia Create powerful teaching partnerships that promote success for every student in inclusive classrooms! How can teachers deliver an extensive curriculum and still meet the various needs of an increasingly diverse student body? This resource demonstrates how co-teaching collaborations can effectively promote success for each learner. Purposeful Co-Teaching integrates the vital components of interpersonal skills, content knowledge, instructional design, and teaching philosophy to guide educators toward the smooth collaboration of a full, mature co-teaching relationship. The authors also provide research-based, field-tested instructional strategies for using big ideas, visuals, mnemonics, formative assessment, and more, within a collaborative teaching context. Additional resources include: Chapter activities and checklists for planning lessons Case studies from elementary and secondary teachers in various subject areas to illustrate the realities of co-teaching Real-world resources such as books, videos, and helpful Web sites Ideal for both general and special education classrooms, this indispensable resource gives co-teachers the practical, proven methods they need to help students make connections, stay engaged, and become independent and successful learners.

aimsweb math computation probes: RTI Toolkit Jim Wright, 2007 This book will provide

school administrators and teachers with the essential techniques, resources, and guidelines to start a comprehensive “Response To Intervention” process in their own schools. The reader will learn how to:

- Help stakeholders “buy-in” to the RTI process
- Inventory and organize intervention resources
- Create research-based and classroom-friendly student intervention plans
- Set objective goals for student improvement
- Apply decision rules to determine when a student who fails to respond to intervention should be referred

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aimsweb math computation probes: *Multi-Tiered Systems of Support in Secondary Schools* Alison G. Clark, Katherine A. Dockweiler, 2019-01-16 Multi-Tiered Systems of Support in Secondary Schools is a humanistic guide used to produce reliable human capital outputs while ensuring the promotion of socially just practices on campus. Featuring real perspectives from practitioners, this text shows how to make manageable changes at secondary schools in accordance with public policy mandates and evidence-based practices by developing smart teams and programs, identifying roles and responsibilities, implementing layers of academic support and services, improving behavioral and mental health of students, and creating an inclusive school culture. This unique guide assists practitioners in implementing systemic change in a bureaucratic system while simultaneously strengthening the health and cohesion of the organization.

aimsweb math computation probes: Handbook of Reading Assessment Sherry Mee Bell, R. Steve McCallum, 2008 Comprehensive, readable, and filled with numerous authentic examples, The Handbook of Reading Assessment addresses the continuum of reading assessments from informal, classroom-based to high-stakes formal testing. This book is unique in its comprehensive, balanced, and timely coverage of key issues and challenges in assessment of reading. Designed for use by advanced undergraduates and graduates in general education, reading education, special education, and school psychology, this much-needed resource addresses the wide range of reading assessments educators must be able to use and understand to effectively assess, instruct, and to communicate across disciplines. Separate chapters focus on informal classroom based assessment, progress monitoring, individual norm-referenced assessment, and group norm-referenced or 'high-stakes' testing. Each of these chapters concludes with useful tables listing some of the most commonly used assessments and their psychometric properties.

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aimsweb math computation probes: How RTI Works in Secondary Schools Holly Windram, Kerry Bollman, 2011-11-25 Focusing on the unique response to intervention challenges faced by those working in a secondary school—including larger student and educator populations, curriculum specializations, a growing achievement gap, and more—the authors outline three imperative components of a successful RTI program and then provide action steps and examples illustrating how each component should surface within the different RTI tiers.

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commonly used assessment and intervention tools in use with English learners. Features specialized chapters relating to reading, writing, and mathematics competencies. Can be used regardless of first language spoken by students. Assessment and Intervention for English Language Learners is an essential resource for researchers, professionals, and graduate students in diverse fields including school and clinical child psychology; assessment, testing, and evaluation; language education; special education; and educational psychology.

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Assessing math concepts is a continuum of assessments that focus on important core concepts and related critical learning phases that must be in place for children to understand and be successful in mathematics. This series is based on the premise that teachers can provide more effective instruction when they are aware of the essential steps that children move through in developing an understanding of foundational mathematical ideas. The assessment tools presented here provide teachers with the information they need to determine precisely what children need to learn. Students progress confidently when teachers are able to provide appropriately challenging learning experiences. - Back cover

aimsweb math computation probes: Working With Students With Disabilities Vicki A. McGinley, Barbara C. Trolley, 2015-09-14
Working with Students with Disabilities: Preparing School Counselors by Vicki A. McGinley and Barbara C. Trolley is an essential tool for all school counselors in training and in practice with the aim to provide a comprehensive approach to working with students with disabilities in a school setting. As more students with disabilities are being included, school counselors need to have a fundamental understanding of the terminology, laws, principles, collaboration, assessment measures, and psycho-social, diversity issues associated with special education. This book continues in the trend of providing sound, evidenced-based knowledge with practical case examples and guided exercises, making the material 'come alive' and fostering critical thinking. "Finally, a book FOR school counselors that specifically addresses the needs of students with disabilities and how we can interface with the team in supporting these students." -Nona Cabral, California Baptist University "McGinley and Trolley have brought together in one exceptional volume the vast material that modern school counselors often leave the classroom searching for - how to understand the complexities of the system in regards to students with special needs, how to best collaborate with professionals and families in meeting those needs, and how to best structure interventions and programs to move those students forward across social, emotional, and academic realms." -Carrie Lynn Bailey, Georgia Southern University "McGinley and Trolley have crafted a text that illuminates the multifaceted responsibilities of school counselors relevant to special education. Faculty, graduate students and practicing counselors alike will find the problem-based learning approach a helpful guide for integrating the content covered in this text into their professional practice." -Kylie P. Dotson-Blake, East Carolina University "Special education students are frequently the most marginalized group on school campuses. Working with Students with Disabilities: Preparing School Counselors points to ways school counselors can open pathways for creating a learning community that supports all students." -Rolla E. Lewis, California State University, East Bay

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Developed specifically to overcome problems with traditional standardized instruments, curriculum-based measurement (CBM) has steadily increased in educational use. These brief assessment probes of reading, spelling, written expression, and mathematics serve to quantify student performance as well as to enhance academic achievement. Their widening use as a means of evaluation and ultimately of instruction, has created a corresponding need to expand the applications of this methodology to diverse populations. This new volume addresses that need by focusing on the broader application of CBM, providing practical new measures, as well as detailing their use with specific student groups.

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This reference guide provides an overview of the purposes and uses of curriculum-based

measurement (CBM), a standardized approach to assessing student performance in order to inform educational and instructional decision making. This guide is designed for teachers, administrators, and other educators who are considering using CBM, want an introduction to CBM, or need a quick and easy reference. It is also useful for educators to use with parents and students as an introduction to CBM. Written by two of the authors of the national bestseller, *The ABCs of CBM: A Practical Guide to Curriculum-Based Measurement*.

aimsweb math computation probes: Psychoeducational Assessment and Report Writing
Stefan C. Dombrowski, 2014-11-10 This textbook provides in-depth instruction for conducting psychoeducational assessments of children in grades K-12 and conveying results through detailed, well-written reports. It takes readers step by step through the assessment process – collecting data, writing reports, and communicating conclusions – for students with conditions spanning the range of IDEA classifications such as autism, learning disabilities, emotional disturbances, and conditions covered by Section 504. The book offers not only a broad understanding of assessment and communication skills, but also of the ethical, legal, cultural, and professional considerations that come with psychoeducational evaluation. And its sample reports model clear, well-organized results accessible to parents and caregivers as well as teachers and colleagues. Key areas of coverage include: • Assessment basics: the testing environment and protocols, interviewing, and observation. • Report writing section by section, from reason for referral to summary and recommendations. • Guidelines for oral reporting, with case examples. • Special issues in psychoeducational assessment and report writing. • Sample psychoeducational reports using this framework. *Psychoeducational Assessment and Report Writing* is an essential text for graduate students, researchers, professors, and professionals in child and school psychology; assessment, testing, and evaluation; social work; and psychological methods/evaluation.

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Susan Perry Gurganus, 2017-02-24 *Math Instruction for Students with Learning Problems, Second Edition* provides a research-based approach to mathematics instruction designed to build confidence and competence in pre- and in-service PreK-12 teachers. This core textbook addresses teacher and student attitudes toward mathematics, as well as language issues, specific mathematics disabilities, prior experiences, and cognitive and metacognitive factors. The material is rich with opportunities for class activities and field extensions, and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis.

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