
SPECIAL TOPIC

Validating a Number Sense Screening Tool for Use in Kindergarten and First Grade: Prediction of Mathematics Proficiency in Third Grade

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Abstract. Using a longitudinal design, children were given a brief number sense screener (NSB) screener ($N = 204$) over six time points, from the beginning of kindergarten to the middle of first grade. The NSB is based on research showing the importance of number competence (number, number relations, and number operations) for success in mathematics. Children's mathematics achievement on a validated high-stakes state test was measured 3 years later, at the end of third grade. Test-retest reliability estimates were obtained for the NSB. Two criterion groups were then formed on the basis of the third-grade achievement test (children who met and who did not meet mathematics standards). Diagnostic validity analyses for the NSB were completed using repeated measures analyses of variance and receiver operator curve analyses. Results from all analyses revealed that scores on the NSB in kindergarten and first grade predicted mathematics proficiency in third grade. Areas under the receiver operator curve indicated that the NSB has high diagnostic accuracy (areas under the receiver operator curve = 0.78–0.88). Findings suggest that kindergarten and first-grade performance on the NSB is meaningful for predicting which children experience later mathematics difficulties.

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Screening Tool For Number Sense

**Alina Galvão Spinillo, Síntria Labres
Lautert, Rute Elizabete de Souza Rosa
Borba**

Screening Tool For Number Sense:

Mathematical Difficulties ,2008-07-25 This book examines the mathematical difficulties in typical and atypical populations It discusses the behavioural educational and neuropsychological characteristics of people with mathematical difficulties and educational interventions to prevent diagnose treat or ameliorate such difficulties The book brings together studies from different disciplines including developmental psychology neuroscience and education and includes perspectives from practicing teachers The book is divided into three major sections The first includes chapters about the nature and characteristics of mathematical difficulties in the population as a whole in relation to both psychology and education The second deals with mathematical difficulties in children with other problems such as specific language impairment and dyslexia The third discusses methods of interventions aimed at preventing treating or ameliorating mathematical difficulties and will include discussions of assessment and diagnosis

Mathematical Reasoning of Children and Adults Alina Galvão Spinillo,Síntia Labres Lautert,Rute Elizabete de Souza Rosa Borba,2021-05-24 This book adopts an interdisciplinary approach to investigate the development of mathematical reasoning in both children and adults and to show how understanding the learner s cognitive processes can help teachers develop better strategies to teach mathematics This contributed volume departs from the interdisciplinary field of psychology of mathematics education and brings together contributions by researchers from different fields and disciplines such as cognitive psychology neuroscience and mathematics education The chapters are presented in the light of the three instances that permeate the entire book the learner the teacher and the teaching and learning process Some of the chapters analyse the didactic challenges that teachers face in the classroom such as how to interpret students reasoning the use of digital technologies and their knowledge about mathematics Other chapters examine students opinions about mathematics and others analyse the ways in which students solve situations that involve basic and complex mathematical concepts The approaches adopted in the description and interpretation of the data obtained in the studies documented in this book point out the limits the development and the possibilities of students thinking and present didactic and cognitive perspectives to the learning scenarios in different school settings Mathematical Reasoning of Children and Adults Teaching and Learning from an Interdisciplinary Perspective will be a valuable resource for both mathematics teachers and researchers studying the development of mathematical reasoning in different fields such as mathematics education educational psychology cognitive psychology and developmental psychology

Math Instruction for Students with Learning Problems 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

Handbook of Australian School Psychology Monica Thielking, Mark D. Terjesen, 2017-01-26 This handbook addresses the current state and practice of school psychology with a focus on standards unique to Australia including historical legal ethical practical and training factors It provides a compilation of the most current research based practices as well as guidelines for evidence based assessment and intervention for common conditions e g autism depression learning disabilities and for delivering appropriate services to targeted student populations e g LGBT gifted medical issues Chapters discuss the application of national and international school psychology practices within the Australian educational and psychological structure The handbook also examines the lack of formal resources specific to Australia s culture and psychology systems with its unique mix of metropolitan cities and the vast geographic landscape that spans regional and remote areas It offers numerous case studies and innovative school mental health programs as well as recommendations for professional development and advocacy that are unique to Australian school psychology Topics featured in this Handbook include Evidence based assessment and intervention for dyscalculia and mathematical disabilities Identification and management of adolescent risk taking behaviors and addictions Understanding and responding to crisis and trauma in the school setting Prevention and intervention for bullying in schools Class and school wide approaches to addressing behavioral and academic needs The role of school psychologists in the digital age Practical advice for school psychologists facing complex ethical dilemmas The Handbook of Australian School Psychology is a must have resource for researchers scientist practitioners and graduate students in child and school psychology social work and related fields that address mental health services for children and adolescents

Mathematical Learning and Cognition in Early Childhood Katherine M. Robinson, Helena P. Osana, Donna Kotsopoulos, 2019-05-07 This book explores mathematical learning and cognition in early childhood from interdisciplinary perspectives including developmental psychology neuroscience cognitive psychology and education It examines how infants and young children develop numerical and mathematical skills why some children struggle to acquire basic abilities and how parents caregivers and early childhood educators can promote early mathematical development The first section of the book focuses on infancy and toddlerhood with a particular emphasis on the home environment and how parents can foster early mathematical skills to prepare their children for formal schooling The second section examines topics in preschool and kindergarten such as the development of counting procedures and principles the use of mathematics manipulatives in instruction and the impacts of early intervention The final part of the book focuses on particular instructional approaches in the elementary school years such as different additive concepts schema based instruction and methods of division Chapters analyze the ways children learn to think about work with and master the language of mathematical concepts as well as provide effective approaches to screening and intervention Included among the topics The relationship between early gender differences and future mathematical learning

and participation The connection between mathematical and computational thinking Patterning abilities in young children Supporting children with learning difficulties and intellectual disabilities The effectiveness of tablets as elementary mathematics education tools Mathematical Learning and Cognition in Early Childhood is an essential resource for researchers graduate students and professionals in infancy and early childhood development child and school psychology neuroscience mathematics education educational psychology and social work **Beyond the RTI Pyramid** William N.

Bender,2011-04-01 This book helps schools deepen the RTI experience by extending the processes beyond initial implementation Examples from real schools show how to apply RTI in reading math and behavior at elementary and secondary schools All critical stakeholders in the school community will get a clear sense of their contribution to successful implementation **The Oxford Handbook of Numerical Cognition** Roi Cohen Kadosh,Ann Dowker,2015 Numbers are

vital to so many areas of life in science economics sports education and many aspects of everyday life from infancy onwards This handbook brings together the different research areas that make up the vibrant field of numerical cognition in one comprehensive and authoritative volume Enabling Mathematics Learning of Struggling Students Yan Ping Xin,Ron

Tzur,Helen Thouless,2022-07-11 This book provides prospective and practicing teachers with research insights into the mathematical difficulties of students with learning disabilities and classroom practices that address these difficulties This linkage between research and practice celebrates teachers as learners of their own students mathematical thinking thus contributing an alternative view of mathematical progression in which students are taught conceptually The research based volume presents a unique collaboration among researchers in special education psychology and mathematics education from around the world It reflects an ongoing work by members of the International Group for the Psychology of Mathematics Education PME and the North American Chapter of the PME Working Groups The authors of chapters in this book who have been collaborating extensively over the past 7 years are from Australia Canada the United Kingdom and the United States

RTI in Math Wiliam N. Bender,Darlene N. Crane,2010-08-01 This map of the RTI process offers an overview of research detailed guidance through each stage of implementation tools for teacher reflection and growth and discussion of support strategies beyond the classroom The authors analyze a variety of common student difficulties in elementary math and apply a three tier RTI model to the general education classroom **Handbook of Research on Formative Assessment in Pre-K**

Through Elementary Classrooms Martin, Christie,Polly, Drew,Lambert, Richard,2019-12-06 Educators require constructive information that details their students comprehension and can help them to advance the learners education Accurate evaluation of students at all educational levels and the implementation of comprehensive assessment strategies are essential for ensuring student equality and academic success The Handbook of Research on Formative Assessment in Pre K Through Elementary Classrooms is an essential research publication that addresses gaps in the understanding of formative assessment and offers educators meaningful and comprehensive examples of formative assessment in the Pre K through

elementary grade levels Covering an array of topics such as literacy professional development and educational technologies this book is relevant for instructors administrators education professionals educational policymakers pre service teachers academicians researchers and students

Uses of Technology in Primary and Secondary Mathematics Education

Lynda Ball,Paul Drijvers,Silke Ladel,Hans-Stefan Siller,Michal Tabach,Colleen Vale,2018-05-14 This book provides international perspectives on the use of digital technologies in primary lower secondary and upper secondary school mathematics It gathers contributions by the members of three topic study groups from the 13th International Congress on Mathematical Education and covers a range of themes that will appeal to researchers and practitioners alike The chapters include studies on technologies such as virtual manipulatives apps custom built assessment tools dynamic geometry computer algebra systems and communication tools Chiefly focusing on teaching and learning mathematics the book also includes two chapters that address the evidence for technologies effects on school mathematics The diverse technologies considered provide a broad overview of the potential that digital solutions hold in connection with teaching and learning The chapters provide both a snapshot of the status quo of technologies in school mathematics and outline how they might impact school mathematics ten to twenty years from now

International Handbook of Mathematical Learning Difficulties

Annemarie Fritz,Vitor Geraldi Haase,Pekka Räsänen,2019-01-30 This comprehensive volume provides teachers researchers and education professionals with cutting edge knowledge developed in the last decades by the educational behavioural and neurosciences integrating cognitive developmental and socioeconomic approaches to deal with the problems children face in learning mathematics The neurocognitive mechanisms and the cognitive processes underlying acquisition of arithmetic abilities and their significance for education have been the subject of intense research in the last few decades but the most part of this research has been conducted in non applied settings and there s still a deep discrepancy between the level of scientific knowledge and its implementation into actual educational settings Now it s time to bring the results from the laboratory to the classroom Apart from bringing the theoretical discussions to educational settings the volume presents a wide range of methods for early detection of children with risks in mathematics learning and strategies to develop effective interventions based on innovative cognitive test instruments It also provides insights to translate research knowledge into public policies in order to address socioeconomic issues And it does so from an international perspective dedicating a whole section to the cultural diversity of mathematics learning difficulties in different parts of the world All of this makes the International Handbook of Mathematical Learning Difficulties an essential tool for those involved in the daily struggle to prepare the future generations to succeed in the global knowledge society

Mathematics Education in the Early Years

Tamsin Meaney,Ola Helenius,Maria L. Johansson,Troels Lange,Anna Wernberg,2016-01-22 This book presents chapters based on papers presented at the second POEM conference on early mathematics learning These chapters broaden the discussion about mathematics education in early childhood by exploring the debate about construction versus instruction

Specific sections investigate the teaching and learning of mathematical processes and mathematical content early childhood teacher development transitions for young children between home and preschool between home and school and between preschool and school The chapters use a range of innovative theoretical and methodological approaches which will form an interesting basis for future research in this area *Medical Education and Ethics: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2016-09-27 As the healthcare industry continues to expand a higher volume of new professionals must be integrated into the field Providing these professionals with a quality education will likewise ensure the further progress and advancements in the medical field Medical Education and Ethics Concepts Methodologies Tools and Applications presents a compendium of contemporary research on the educational practices and ethical considerations in the medical industry This multi volume work contains pedagogical frameworks emerging trends case studies and technological innovations essential for optimizing medical education initiatives This comprehensive publication is a pivotal resource for medical professionals upper level students researchers and practitioners Journal for Research in Mathematics Education ,2015 **The Routledge International Companion to Educational Psychology** Andrew J. Holliman,2013-07-24 The Routledge International Companion to Educational Psychology brings together expert practitioners researchers and teachers from five continents to produce a unique and global guide to the core topics in the field Each chapter includes coverage of the key thinkers topic areas events and ideas that have shaped the field but also takes the reader beyond typical textbook material and into engagement with current issues cutting edge research and future directions in the field of educational psychology from an international perspective With over 30 chapters the volume is divided into four themed sections An introduction to educational psychology How children learn and develop Issues concerning the assessment of children and Identifying and meeting the needs of children with learning difficulties Covering the key issues and fundamental strands of educational psychology The Routledge International Companion to Educational Psychology aims to provide the reader with knowledge of educational psychology history child rights and practice factors which influence children s learning and development issues to do with assessment a key aspect of educational psychology special educational needs identification and how to meet their needs the key thinkers events and ideas that have shaped the field the core topics across educational psychology in an accessible manner cutting edge research including recent research evidence and theory future directions in the field of educational psychology educational psychology from an international perspective The book is conceived for both student and researcher use and considers the implications for educational psychology practice in all sections It will be highly beneficial for both students and lecturers on Education Studies and Psychology undergraduate courses as well as combined undergraduate degrees All About Dyscalculia: A Practical Guide for Primary Teachers Judy Hornigold,2023-07-18 All About Dyscalculia is an accessible and informative guide for primary school teachers designed to increase their knowledge and understanding of dyscalculia and provide practical strategies and

advice to build the self esteem and motivation of learners in their care The book explores the indicators of dyscalculia before detailing a range of teaching strategies that will support dyscalculic children and help them to develop their mathematical understanding and resilience Throughout the book there is an emphasis on creating an empathetic learning ethos in the classroom and school that will minimise maths anxiety and lead to a more positive outcome for all learners All About Dyscalculia includes A comprehensive introduction to dyscalculia and steps to help teachers identify children with dyscalculia in their classrooms Practical strategies for building specific maths abilities as well as broader problem solving skills Advice for teachers and parents on how to reduce maths anxiety and support the development of maths proficiency in learners Easy to dip in and out of chapters with worked examples make this book accessible to all teachers and parents With suggestions for immediate impact as well as ideas for more detailed interventions this practical book will be essential reading for all mainstream primary teachers and SENCOs as well as a helpful guide to supporting children with dyscalculia at home

Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2014-05-23 In this important book for pre and in service teachers early math experts Douglas Clements and Julie Sarama show how learning trajectories help diagnose a child's level of mathematical understanding and provide guidance for teaching By focusing on the inherent delight and curiosity behind young children's mathematical reasoning learning trajectories ultimately make teaching more joyous They help teachers understand the varying levels of knowledge exhibited by individual students which in turn allows them to better meet the learning needs of all children Using straightforward no nonsense language this book summarizes the current research about how children learn mathematics and how to build on what children already know to realize more effective teaching This second edition of Learning and Teaching Early Math remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become quintessential professionals Updates to the new edition include Explicit connections between Learning Trajectories and the new Common Core State Standards New coverage of patterns and patterning Incorporation of hundreds of recent research studies Doubling Student Performance Allan R. Odden, Sarah J. Archibald, 2009-01-12 At a time when the United States is struggling with far reaching educational reform school leaders need a blueprint that can dramatically improve student success and then support that success by effectively reallocating and managing available resources Doubling Student Performance combines the latest research with the authors national study of diverse schools that were able to significantly boost student achievement Strategies focus on reducing class size promoting professional development locating necessary funding and providing academic support to struggling students School leaders will find Examples and case studies that include high minority and high poverty schools 10 key strategies for dramatically increasing student achievement such as setting ambitious goals and emphasizing a collaborative culture Clear steps and specific tools to successfully reallocate resources This book is a valuable tool for educators and policy makers who understand that reform is only possible when schools have the human and financial

resources to do it Book jacket *How Children Learn Math* Nancy Krasa, Karen Tzanetopoulos, Colleen Maas, 2022-10-25

Written for pre service and in service educators as well as parents of children in preschool through grade five this book connects research in cognitive development and math education to offer an accessibly written and practical introduction to the science of elementary math learning Structured according to children s mathematical development *How Children Learn Math* systematically reviews and synthesizes the latest developmental research on mathematical cognition into accessible sections that explain both the scientific evidence available and its practical classroom application Written by an author team with decades of collective experience in cognitive learning research clinical learning evaluations and classroom experience working with both teachers and children this amply illustrated text offers a powerful resource for understanding children s mathematical development from quantitative intuition to word problems and helps readers understand and identify math learning difficulties that may emerge in later grades Aimed at pre service and in service teachers and educators with little background in cognitive development the book distills important findings in cognitive development into clear accessible language and practical suggestions The book therefore serves as an ideal text for pre service early childhood elementary and special education teachers as well as early career researchers or as a professional development resource for in service teachers supervisors and administrators school psychologists homeschool parents and other educators

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