
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.

This work is supported by a grant from the National Institute of Child Health and Human Development (R01HD036672). The authors thank the participating children and teachers for their extremely generous cooperation.

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Screening Tool For Number Sense

Sabine Zange



Screening Tool For Number Sense:

Decoding **Screening Tool For Number Sense**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Screening Tool For Number Sense**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Screening Tool For Number Sense

1. Understanding the eBook Screening Tool For Number Sense
 - The Rise of Digital Reading Screening Tool For Number Sense
 - Advantages of eBooks Over Traditional Books
2. Identifying Screening Tool For Number Sense
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Screening Tool For Number Sense
 - User-Friendly Interface
4. Exploring eBook Recommendations from Screening Tool For Number Sense
 - Personalized Recommendations
 - Screening Tool For Number Sense User Reviews and Ratings
 - Screening Tool For Number Sense and Bestseller Lists

5. Accessing Screening Tool For Number Sense Free and Paid eBooks
 - Screening Tool For Number Sense Public Domain eBooks
 - Screening Tool For Number Sense eBook Subscription Services
 - Screening Tool For Number Sense Budget-Friendly Options
6. Navigating Screening Tool For Number Sense eBook Formats
 - ePub, PDF, MOBI, and More
 - Screening Tool For Number Sense Compatibility with Devices
 - Screening Tool For Number Sense Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Screening Tool For Number Sense
 - Highlighting and Note-Taking Screening Tool For Number Sense
 - Interactive Elements Screening Tool For Number Sense
8. Staying Engaged with Screening Tool For Number Sense
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Screening Tool For Number Sense
9. Balancing eBooks and Physical Books Screening Tool For Number Sense
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Screening Tool For Number Sense
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Screening Tool For Number Sense
 - Setting Reading Goals Screening Tool For Number Sense
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Screening Tool For Number Sense
 - Fact-Checking eBook Content of Screening Tool For Number Sense
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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