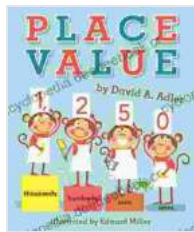


# Unlocking the Secrets of Place Value with David Adler's Masterpiece

In the realm of mathematics, place value reigns supreme as the cornerstone of our number system. It's the concept that gives each digit in a number its power, allowing us to decipher even the most complex numerical expressions. To fully grasp this fundamental concept, educators and students alike turn to the timeless work of renowned children's author David Adler.



## Place Value by David A. Adler

★★★★☆ 4.6 out of 5

Language : English

Hardcover : 380 pages

Item Weight : 1.58 pounds

Dimensions : 6.25 x 1.3 x 9.25 inches

File size : 36011 KB

Screen Reader : Supported

Print length : 32 pages



Adler's book, simply titled "Place Value," has become a classic in the field of math education. With his signature blend of clear explanations, engaging examples, and hands-on activities, Adler demystifies the intricacies of place value, making it accessible to young learners of all ages.

## Understanding Place Value

Place value is the concept that the value of a digit in a number depends on its position within that number. In our base-ten number system, each digit

represents a multiple of a power of ten. For example, in the number 345, the digit 3 represents 300, the digit 4 represents 40, and the digit 5 represents 5.

Adler's book begins by introducing the concept of place value using simple language and relatable examples. He explains how numbers are written in expanded form, which is a way of expressing the value of each digit individually. For example, the number 345 can be written in expanded form as  $300 + 40 + 5$ .

Once students have a solid understanding of expanded form, Adler introduces the concept of place value chart. A place value chart is a diagram that shows the value of each digit in a number, depending on its position. The chart is divided into columns, each representing a different power of ten. The far right column represents the ones place, the next column represents the tens place, and so on.

Using place value charts, students can easily visualize how the value of a digit changes depending on its position. This visual representation helps to reinforce the concept of place value and makes it easier to understand how numbers are structured.

## **Engaging Activities and Examples**

Throughout the book, Adler supplements his clear explanations with a variety of engaging activities and examples. These activities are designed to make learning about place value fun and interactive, while also reinforcing the key concepts.

### **Example: Thousands and Hundreds**

In one example, Adler asks students to compare the numbers 3,456 and 3,546. He explains that the digit 4 in the thousands place in the first number represents 4,000, while the digit 4 in the hundreds place in the second number represents 400. By comparing the values of the digits in each place, students can easily see that 3,456 is greater than 3,546.

### **Activity: Place Value Bingo**

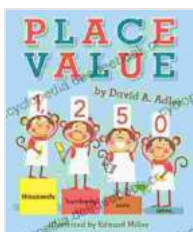
In another activity, Adler introduces a game called Place Value Bingo. Students are given bingo cards with numbers written in expanded form. The teacher then calls out numbers, and students must identify the number on their bingo card that has the same expanded form. The first student to complete a row or column on their bingo card wins.

Activities like Place Value Bingo help to make learning about place value more engaging and memorable. By playing games and completing activities, students can reinforce their understanding of the concept and develop a deeper appreciation for the power of place value.

David Adler's book, "Place Value," is an essential resource for anyone who wants to understand the fundamental principles of our number system. With its clear explanations, engaging examples, and hands-on activities, this book makes learning about place value accessible and enjoyable for students of all ages. Whether you're a teacher, a parent, or a student, I highly recommend adding this timeless classic to your bookshelf.

By unlocking the secrets of place value, we can empower students to become confident and capable mathematicians. Adler's book is an invaluable tool on this journey, providing a foundation for future

mathematical endeavors and a lifelong appreciation for the beauty and power of numbers.



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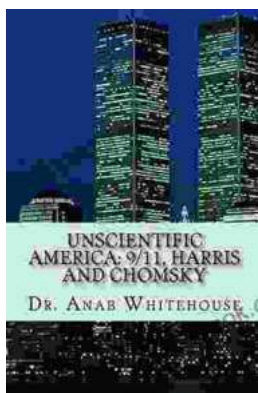
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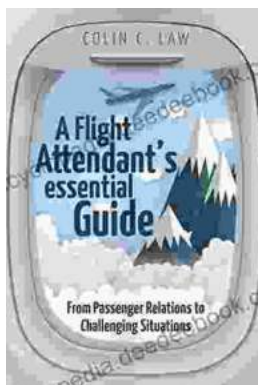
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