Exploring Tens and Ones in Whole Numbers

Introduction

The concept of tens and ones in whole numbers is a fundamental building block of mathematics. This worksheet is designed to support 11-year-old students with ADHD, EL learners, and students with autism in understanding and applying this concept.

As we explore the concept of tens and ones, we will learn how to represent numbers using tens and ones, visualize the concept using base-ten blocks or number lines, and apply our understanding to solve word problems.

Section 1: Understanding Tens and Ones

1. What is the concept of tens and ones in whole numbers?

2. Can you give an example of a number that can be represented as tens and ones? (e.g., 14 = 1 ten + 4 ones)

3. How do you think tens and ones are used in real-life scenarios? (e.g., measuring lengths, counting money)

Section 2: Visualizing Tens and Ones

Use the base-ten blocks or number lines to help you visualize the concept of tens and ones.

1. Represent the number 25 using base-ten blocks or a number line.

2. Identify the tens and ones in the number 36.

3. Can you create a number using tens and ones that is equal to 17?

Section 3: Word Problems

Apply your understanding of tens and ones to solve the following word problems.

1. If I have 3 tens and 2 ones, how many pencils do I have in total?

2. A bookshelf has 5 shelves, and each shelf can hold 2 tens of books. How many books can the bookshelf hold in total?

3. A recipe requires 2 tens and 5 ones of cups of flour. How many cups of flour are needed in total?

Section 4: Games and Activities

Choose one of the following activities to practice your understanding of tens and ones.

1. Tens and Ones Bingo: Create a bingo card with numbers represented as tens and ones. Play a game of bingo to practice identifying tens and ones.
2. Tens and Ones Scavenger Hunt: Find objects in the classroom or at home that represent numbers using tens and ones (e.g., 14 pencils, 25 books).
3. Tens and Ones Sorting Game: Sort a set of numbers into tens and ones.

[Space for activity]

Section 5: Reflection and Assessment

Reflect on what you have learned about tens and ones.

1. What did you learn about tens and ones in whole numbers?

2. Can you think of a real-life scenario where tens and ones are used?

3. How do you think you can apply your understanding of tens and ones to solve problems?

Conclusion

In conclusion, the concept of tens and ones in whole numbers is a fundamental building block of mathematics.

By completing the activities and questions in this worksheet, you have developed a deeper understanding of tens and ones and can apply it to real-life scenarios.

Additional Practice

Use the following space to practice your understanding of tens and ones.

[Space for practice]