Understanding Place Value

Student Name: _____

Class: _____

Due Date: _____

Introduction to Place Value

Place value is a fundamental concept in mathematics that helps us understand the relationship between digits in a multi-digit whole number. In this worksheet, we will explore the concept of place value and practice identifying the place value of digits in different numbers.

Match the following numbers with their corresponding place values:

- 456: hundreds, tens, ones
- 234: hundreds, tens, ones
- 789: hundreds, tens, ones

Understanding Place Value

In a multi-digit whole number, each digit has a place value that depends on its position. The place value of a digit is determined by its position in the number.

> Example: In the number 456, the digit 4 has a place value of hundreds, the digit 5 has a place value of tens, and the digit 6 has a place value of ones.

Identify the place value of each digit in the following numbers:

1. 123: hundreds, tens, ones
2. 456: hundreds, tens, ones
3. 789: hundreds, tens, ones

Place Value Practice

Identify the place value of each digit in the following numbers:

- 234
- 567
- 890

Use the following numbers to practice identifying place value:

1. 345: hundreds, tens, ones
2. 678: hundreds, tens, ones
3. 901: hundreds, tens, ones

Real-World Applications

Place value is used in real-life scenarios such as counting money, measuring lengths, and telling time.

> Example: If you have $456, the digit 4 represents $400, the digit 5 represents $50, and the digit 6 represents $6.

Use the following scenarios to practice applying place value to real-world problems:

1. You have $234 in your piggy bank. How much money do you have in hundreds, tens, and ones?
2. A bookshelf is 456 inches long. How many hundreds, tens, and ones of inches are in the length of the bookshelf?

Word Problems

Read each word problem and use place value to solve it.

Word Problems:

1. Tom has 456 pencils in his pencil case. How many hundreds, tens, and ones of pencils does Tom have?
2. A box of crayons weighs 234 grams. How many hundreds, tens, and ones of grams does the box of crayons weigh?

Place Value Games

Play the following games to practice place value:

Place Value Bingo: Create bingo cards with numbers and their corresponding place values. Call out the numbers and have students mark the correct place values.

Place Value War: Create a deck of cards with numbers and their corresponding place values. Play a game of "war" to determine which number has the greatest place value.

Place Value Scavenger Hunt

Find objects in your classroom or school that represent multi-digit whole numbers. Identify the place value of each digit in the number.

Create a list of the objects you found and their corresponding place values.

Place Value Sorting

Sort the following numbers into categories based on their place value:

Numbers:

- 123
- 456
- 789
- 234
- 567
- 890

Create a chart or graph to show the sorted numbers.

Place Value Review

Review the concept of place value and identify the place value of each digit in the following numbers:

Numbers:

- 345
- 678
- 901

Use the following numbers to practice identifying place value:

1. 234: hundreds, tens, ones
2. 567: hundreds, tens, ones
3. 890: hundreds, tens, ones

Conclusion

In this worksheet, we explored the concept of place value and practiced identifying the place value of digits in different numbers. We also applied place value to real-world scenarios and played games to reinforce our understanding.

Create a poster or presentation that explains the concept of place value and provides examples of how it is used in real-life scenarios.