



Introduction to Decimal Numbers

Read the following introduction and answer the questions that follow:

Decimal numbers are used in everyday life to represent fractions or parts of a whole. Understanding how to read and write decimal numbers is essential for solving real-world problems.

1. What is the importance of understanding decimal numbers in real-life situations?

2. Provide an example of how decimal numbers are used in everyday life.

Understanding Decimal Numbers

Complete the following exercises to understand decimal numbers:

1. What is the decimal number 4.25 in word form?

2. A book costs \$15.99. If a 10% discount is applied, how much will the book cost?

3. What is the decimal number 3.75 in expanded form?



Reading and Writing Decimal Numbers

Complete the following exercises to practice reading and writing decimal numbers:

1. Write the decimal number 2.5 in standard form:

2. Read the decimal number 0.45:

3. Write the decimal number 9.99 in word form:

Real-World Applications

Complete the following exercises to apply decimal numbers to real-world problems:

1. A recipe requires 2.5 cups of flour. If you want to make half the recipe, how many cups of flour will you need?

2. A water bottle can hold 1.8 liters of water. If you drink 0.5 liters, how much water is left?

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3. A shirt costs \$24.99. If a 15% discount is applied, how much will the shirt cost?

Decimal Number Patterns

Complete the following exercises to identify patterns in decimal numbers:

1. Identify the pattern in the following decimal numbers: 0.1, 0.2, 0.3, 0.4

2. Generate the next three numbers in the pattern:

Word Problems

Complete the following exercises to apply decimal numbers to word problems:

1. A car travels 25.5 miles in 2.5 hours. How many miles does it travel per hour?

2. A bakery sells 3.75 kilograms of bread per day. If they sell bread for 5 days, how many kilograms of bread will they sell in total?

Mixed Review

Complete the following exercises to review decimal numbers:

1. Write the decimal number 6.25 in expanded form:

2. Read the decimal number 0.95:

3. A pencil is 15.2 cm long. If you have 5 pencils, how many centimeters of pencils do you have in total?

Conclusion

Reflect on what you have learned about decimal numbers:

In this worksheet, we have explored the logic of representing, reading, writing, and working with decimal numbers. We have also applied decimal numbers to solve real-world problems.

1. What did you learn about decimal numbers in this worksheet?

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2. How will you apply decimal numbers in real-life situations?



