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Decimal Place Value Worksheets

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Part 1: Building a Foundation

What is the place value of the digit 7 in the number 5.783?

Hint: Consider the position of the digit in relation to the decimal point.

◯ Tenths
◯ Hundredths
◯ Thousandths
◯ Units

Which of the following numbers have a digit 5 in the tenths place? (Select all that apply)

Hint: Look at the first digit to the right of the decimal point.

☐ 3.57
☐ 5.23
☐ 0.56
☐ 7.85

Explain the importance of the decimal point in determining the value of a decimal number.

Hint: Consider how the decimal point separates whole numbers from fractional parts.

Identify the place value of the digit 4 in each of the following numbers:

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Hint: Look at the position of the digit 4 in each number.

1. 0.456

[   ]

2. 4.789

[   ]

3. 12.34

[   ]

Part 2: Understanding and Interpretation

How would you write the number 0.305 in words?

Hint: Think about how to express decimal numbers in verbal form.

◯ Three hundred five
◯ Three hundred five thousandths
◯ Thirty-five hundredths
◯ Three and five tenths

Which statements are true about the number 2.049? (Select all that apply)

Hint: Analyze the position of each digit in the number.

☐ The digit 4 is in the hundredths place.
☐ The digit 9 is in the thousandths place.
☐ The number is greater than 2.5.
☐ The number is less than 2.1.

Describe how you would compare the numbers 0.67 and 0.607 to determine which is larger.

Hint: Consider the place values of each digit in both numbers.

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Part 3: Application and Analysis

If you round the number 4.768 to the nearest hundredth, what is the result?

Hint: Look at the digit in the thousandths place to decide how to round.

○ 4.76
○ 4.77
○ 4.78
○ 4.80

Which of the following operations will result in a decimal number? (Select all that apply)

Hint: Consider the outcome of each operation.

☐ 5 ÷ 2
☐ 7 × 0.1
☐ 3 + 0.75
☐ 10 - 3

Convert the fraction 3/4 into a decimal and explain your process.

Hint: Think about how to divide the numerator by the denominator.

Which number line correctly represents the number 0.52?

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Hint: Visualize the placement of 0.52 between 0.5 and 0.6.

◯ A number line with 0.5 and 0.6, with 0.52 closer to 0.5
◯ A number line with 0.5 and 0.6, with 0.52 exactly in the middle
◯ A number line with 0.5 and 0.6, with 0.52 closer to 0.6
◯ A number line with 0.5 and 0.6, with 0.52 at 0.6

Break down the number 5.406 into its individual place values and explain the value of each digit.

Hint: Consider the value of each digit based on its position.

Part 4: Evaluation and Creation

Which of the following numbers is closest to 0.5 when rounded to the nearest tenth?

Hint: Look at the digit in the hundredths place to decide how to round.

◯ 0.46
◯ 0.49
◯ 0.52
◯ 0.55

Evaluate the following scenarios and determine which would result in a decimal number. (Select all that apply)

Hint: Consider the outcome of each scenario.

☐ Dividing a pizza into 3 equal parts
☐ Multiplying a whole number by 0.5
☐ Adding two whole numbers
☐ Subtractinging a smaller whole number from a larger whole number

Create a real-world problem that involves comparing two decimal numbers, and explain how you would solve it.

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Hint: Think about a scenario where decimals are used in everyday life.

Propose two different methods to convert the decimal 0.875 into a fraction, and explain each method briefly.

Hint: Consider how to express the decimal as a fraction.

1. Method 1

2. Method 2

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