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Comparing Decimals Worksheet

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Part 1: Building a Foundation

What is the value of the digit 7 in the decimal number 3.476?

Hint: Consider the place value of the digit 7.

◯ 7 tenths
◯ 7 hundredths
◯ 7 thousandths
◯ 7 units

Which of the following symbols are used to compare decimal numbers?

Hint: Think about the symbols that indicate greater than, less than, or equal to.

☐ >
☐ <
☐ =
☐ +

Explain what it means for one decimal to be greater than another. Provide an example with your explanation.

Hint: Consider the value of the digits in each decimal.

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List the place values for the digits in the decimal number 0.593. Provide the place value for each digit.

Hint: Identify the place value for tenths, hundredths, and thousandths.

1. What is the place value of 5?

2. What is the place value of 9?

3. What is the place value of 3?

Part 2: Understanding and Interpretation

Which of the following decimals is the largest?

Hint: Compare the decimals by looking at their values.

○ 0.45
○ 0.405
○ 0.5
○ 0.495

When comparing the decimals 0.678 and 0.67, which statements are true?

Hint: Think about the values of each decimal.

☐ 0.678 is greater than 0.67
☐ 0.67 is greater than 0.678
☐ 0.678 is equal to 0.67
☐ 0.678 has more decimal places than 0.67

Describe how you would compare the decimals 0.56 and 0.506. What steps would you take to determine which is greater?

Hint: Consider aligning the decimals and comparing digit by digit.

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Part 3: Application and Analysis

If you round the decimal 3.467 to the nearest tenth, what is the result?

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

○ 3.4
○ 3.5
○ 3.46
○ 3.47

You have the following measurements: 2.75m, 2.7m, and 2.705m. Which measurements are greater than 2.7m?

Hint: Compare each measurement to 2.7m.

☐ 2.75m
☐ 2.7m
☐ 2.705m
☐ None of the above

A store sells apples by weight. If one apple weighs 0.255 kg and another weighs 0.25 kg, which apple is heavier? Explain your reasoning.

Hint: Compare the weights of the two apples.

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Part 4: Evaluation and Creation

Which of the following decimals is incorrectly ordered from least to greatest?

Hint: Look closely at the values of each decimal.

○ 0.321, 0.312, 0.213
○ 0.213, 0.312, 0.321
○ 0.213, 0.321, 0.312
○ 0.312, 0.213, 0.321

Analyze the following decimals: 0.504, 0.54, 0.045. Which are ordered correctly from greatest to least?

Hint: Compare the values of each decimal.

☐ 0.54, 0.504, 0.045
☐ 0.504, 0.54, 0.045
☐ 0.045, 0.504, 0.54
☐ 0.54, 0.045, 0.504

Compare the decimals 0.709 and 0.79. Break down your comparison step by step, explaining your thought process.

Hint: Align the decimals and compare each digit.

Which scenario requires more precise decimal comparison?

Hint: Consider the implications of each scenario.

○ ComparING the price of two items in a store
○ Measuring the length of a room in meters
○ Calculating the dosage of medication
○ Determining the time of day

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You are tasked with comparing the following decimals for a scientific experiment: 0.0056, 0.056, 0.00056. Which are true statements?

Hint: Analyze the values of each decimal carefully.

☐ 0.056 is the largest
☐ 0.0056 is larger than 0.00056
☐ 0.00056 is the smallest
☐ 0.0056 is the smallest

Create a real-world problem that involves comparing decimals. Describe the scenario and explain how you would solve it using decimal comparison.

Hint: Think of a situation where decimals are used in everyday life.

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