

## Comparing Decimals Worksheet Answer Key PDF

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### Part 1: Building a Foundation

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

undefined. 7 tenths

**undefined. 7 hundredths ✓**

undefined. 7 thousandths

undefined. 7 units

The value of the digit 7 in the decimal number 3.476 is 7 hundredths.

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

**undefined. > ✓**

**undefined. < ✓**

**undefined. = ✓**

undefined. +

The symbols used to compare decimal numbers include >, <, and =.

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

**One decimal is greater than another if it has a higher value in the same place value. For example, 0.7 is greater than 0.6 because 7 tenths is more than 6 tenths.**

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

1. What is the place value of 5?

**5 tenths**

2. What is the place value of 9?

**9 hundredths**

3. What is the place value of 3?

**3 thousandths**

The place values are: 5 tenths, 9 hundredths, and 3 thousandths.

## Part 2: Understanding and Interpretation

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**Which of the following decimals is the largest?**

undefined. 0.45

undefined. 0.405

**undefined. 0.5 ✓**

undefined. 0.495

The largest decimal among the options is 0.5.

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

**undefined. 0.678 is greater than 0.67 ✓**

undefined. 0.67 is greater than 0.678

undefined. 0.678 is equal to 0.67

**undefined. 0.678 has more decimal places than 0.67 ✓**

0.678 is greater than 0.67, and 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?**

**To compare 0.56 and 0.506, align the decimals and compare each digit from left to right. 0.56 is equivalent to 0.560, so 0.506 is less than 0.56.**

## Part 3: Application and Analysis

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

undefined. 3.4

**undefined. 3.5 ✓**

undefined. 3.46

undefined. 3.47

When rounding 3.467 to the nearest tenth, the result is 3.5.

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

**undefined. 2.75m ✓**

undefined. 2.7m

**undefined. 2.705m ✓**

undefined. None of the above

The measurements greater than 2.7m are 2.75m and 2.705m.

**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.**

**The apple weighing 0.255 kg is heavier than the one weighing 0.25 kg because 0.255 is greater than 0.25.**

## Part 4: Evaluation and Creation

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

**undefined. 0.321, 0.312, 0.213 ✓**

undefined. 0.213, 0.312, 0.321

undefined. 0.213, 0.321, 0.312

undefined. 0.312, 0.213, 0.321

The incorrectly ordered decimals are 0.321, 0.312, 0.213; they should be ordered as 0.213, 0.312, 0.321.

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

**undefined. 0.54, 0.504, 0.045 ✓**

undefined. 0.504, 0.54, 0.045

undefined. 0.045, 0.504, 0.54

undefined. 0.54, 0.045, 0.504

The correct order from greatest to least is 0.54, 0.504, 0.045.

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

**To compare 0.709 and 0.79, align them as 0.709 and 0.790. Since 0.790 is greater, 0.79 is greater than 0.709.**

**Which scenario requires more precise decimal comparison?**

undefined. ComparING the price of two items in a store

undefined. Measuring the length of a room in meters

**undefined. Calculating the dosage of medication ✓**

undefined. Determining the time of day

Calculating the dosage of medication requires more precise decimal comparison.

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

**undefined. 0.056 is the largest ✓**

**undefined. 0.0056 is larger than 0.00056 ✓**

**undefined. 0.00056 is the smallest ✓**

undefined. 0.0056 is the smallest

The true statements are that 0.056 is the largest, and 0.0056 is larger than 0.00056.

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

**An example could be comparing prices of different brands of the same product. To solve it, I would list the prices and determine which is the lowest.**