

# Adding And Subtracting Decimals Worksheets Questions and Answers PDF

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## Part 1: Building a Foundation

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**What is the place value of the digit 5 in the decimal number 3.456?**

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

- Tenths
- Hundredths ✓**
- Thousandths
- Units

■ The place value of the digit 5 is hundredths.

**Which of the following are true about decimals? (Select all that apply)**

*Hint: Think about the characteristics and definitions of decimals.*

- Decimals are fractions with denominators of 10, 100, 1000, etc. ✓**
- Decimals can only be positive numbers.
- Decimals are used to represent parts of a whole. ✓**
- Decimals have a place value system similar to whole numbers. ✓**

■ Decimals can represent fractions, can be negative, and have a place value system.

**Explain why it is important to align decimal points when adding or subtracting decimals.**

*Hint: Consider how misalignment can affect the outcome of the operation.*

Align decimal points ensures that each digit is added or subtracted from the correct place value.

List the place values for the digits in the decimal number 0.789.

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

1. What is the place value of the digit 7?

Tenths

2. What is the place value of the digit 8?

Hundredths

3. What is the place value of the digit 9?

Thousandths

The place values are tenths, hundredths, and thousandths.

## Part 2: Comprehension and Application

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When adding 2.3 and 0.45, what should you do to ensure the decimal points are aligned?

Hint: Think about how to make the numbers have the same number of decimal places.

- Add zeros to the right of 2.3 ✓
- Add zeros to the left of 0.45
- Move the decimal point in 0.45
- No need to align, just add directly

■ You should add zeros to the right of 2.3 to align the decimal points.

**Which of the following statements are correct when subtracting decimals? (Select all that apply)**

Hint: Consider the steps involved in subtracting decimals.

- Align the decimal points vertically. ✓
- Always subtract the smaller number from the larger number.
- Borrow from the next left digit if needed. ✓
- Ignore decimal places when subtracting.

■ Align the decimal points and borrow if necessary when subtracting decimals.

**Calculate the total distance traveled if you walked 1.2 miles in the morning and 2.35 miles in the evening.**

Hint: Add the two distances together.

■ The total distance traveled is 3.55 miles.

**If you have \$12.50 and spend \$3.75, how much money do you have left?**

Hint: Subtract the amount spent from the total amount.

- \$8.75 ✓
- \$9.25
- \$8.85
- \$9.00

■ You have \$8.75 left after spending.

### Part 3: Analysis, Evaluation, and Creation

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**Which of the following best explains why aligning decimal points is crucial in addition and subtraction?**

*Hint: Think about the impact of misalignment on calculations.*

- It makes the numbers look neat.
- It ensures each digit is added or subtracted from the correct place value. ✓**
- It helps in multiplying decimals.
- It is not necessary, just a recommendation.

■ Align decimal points ensures each digit is added or subtracted from the correct place value.

**Analyze the following statement: "When subtracting 4.56 from 5.00, borrowing is necessary." Why is this true? (Select all that apply)**

*Hint: Consider the digits in each place value.*

- The digit in the tenths place of 5.00 is smaller than in 4.56. ✓**
- Borrowing helps maintain the correct place value. ✓**
- The digit in the hundredths place of 5.00 is smaller than in 4.56.
- Borrowing is not necessary for this subtraction.

■ Borrowing is necessary because the digit in the tenths place of 5.00 is smaller than in 4.56.

**Evaluate the effectiveness of using a calculator to verify decimal subtraction results. Discuss the pros and cons.**

*Hint: Consider both the advantages and disadvantages of using technology.*

**Using a calculator can provide quick verification but may lead to over-reliance on technology.**

**Create a real-world problem that involves subtracting decimals, and solve it.**

*Hint: Think about everyday situations where you might subtract decimals.*

**A real-world problem could involve budgeting or measuring, and the solution should show the calculation.**