

## Adding And Subtracting Decimals Worksheets

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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

**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.

**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.*

**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?

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

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

## 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

**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.

**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.*

**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

### 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.

**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.

**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.*

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

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