Subtracting Decimals Worksheet Answer Key PDF

Subtracting Decimals Worksheet Answer Key PDF

Disclaimer: The subtracting decimals worksheet answer key pdf was generated with the help of StudyBlaze AI. Please be aware that AI can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

Part 1: Building a Foundation

What is the correct way to align numbers when subtractING decimals?

undefined. Align the leftmost digits

undefined. Align the decimal points ✓

undefined. Align the rightmost digits

undefined. Align the whole numbers

The correct way to align numbers when subtractING decimals is to align the decimal points.

Which of the following are decimal places? (Select all that apply)

undefined. Tenths ✓

undefined. Hundreds

undefined. Thousandths ✓

undefined. Ones

The decimal places include tenths and thousandths.

Explain why it is important to add zeros when subtractING decimals with different numbers of decimal places.

Adding zeros ensures that the numbers have the same decimal places, which is crucial for accurate subtraction.

List the steps involved in subtractING decimals.

1. What is the first step?

Align the decimal points.

2. What do you do if the decimal places are different?

Add zeros to make them equal.

3. What is the final step?

Subtract the numbers.

The steps include aligning the decimal points, adding zeros if necessary, and then subtractING.

Part 2: comprehension

If you subtract 3.75 from 5.2, what is the correct alignment of the numbers?

undefined. 5.2 -3.75

undefined. 5.20 -3.75 ✓

undefined. 5.2 -3.7

undefined. 5.20 -3.7

The correct alignment is to write 5.20 above 3.75.

When borrowing in decimal subtraction, which of the following statements are true? (Select all that apply)

undefined. You can only borrow from the whole number part.

undefined. BorrowING is similar to borrowING in whole number subtraction. ✓

undefined. You may need to borrow across decimal places. ✓

undefined. BorrowING is not necessary if the top digit is larger.

True statements include that borrowing is similar to whole number subtraction and may need to occur across decimal places.

Describe a common mistake made when subtractING decimals and how to avoid it.

A common mistake is not aligning the decimal points, which can be avoided by double-checkING the alignment before subtractING.

Part 3: Application and Analysis

Subtract 4.56 from 7.89. What is the result?

undefined. 3.33 ✓

undefined. 3.43

undefined. 3.53

undefined. 3.63

The result of subtractING 4.56 from 7.89 is 3.33.

Which of the following scenarios require decimal subtraction? (Select all that apply)

undefined. Calculating change from a purchase ✓

undefined. Measuring the difference in temperature ✓

undefined. Counting whole apples

undefined. ComparING distances in kilometers ✓

Scenarios that require decimal subtraction include calculating change and measuring temperature differences.

Solve the following problem: A piece of ribbon is 5.75 meters long. If you cut off 2.8 meters, how much ribbon is left?

The remaining length of the ribbon is 2.95 meters after cutting off 2.8 meters.

What is the result of subtractING 0.007 from 0.1?

undefined. 0.093 ✓

undefined. 0.097

undefined. 0.103

undefined. 0.107

The result of subtractING 0.007 from 0.1 is 0.093.

Analyze the following subtraction: 6.004 - 2.1. Which steps are necessary to solve it correctly? (Select all that apply)

undefined. Align the decimal points ✓

undefined. Add zeros to make the decimal places equal ✓

undefined. Borrow from the whole number part ✓

undefined. Direct subtraction without alignment

Necessary steps include aligning the decimal points and adding zeros to make the decimal places equal.

Part 4: Evaluation and Creation

Which of the following solutions is correct for the subtraction 9.5 - 4.76?

undefined. 4.74 ✓
undefined. 4.84
undefined. 4.64
undefined. 4.54

The correct solution for 9.5 - 4.76 is 4.74.

Evaluate the following statement: "Adding zeros to the right of a decimal number changes its value." Which are correct? (Select all that apply)

undefined. True, it increases the value
undefined. False, it does not change the value ✓
undefined. True, it decreases the value
undefined. False, it maintains the same value ✓

The correct evaluation is that adding zeros does not change the value of the decimal number.

Create a real-world problem involving decimal subtraction and solve it. Provide a detailed explanation of your solution process.

An example could be calculating the remaining balance after a purchase, and the solution process should detail each step.