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Subtracting Decimals Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

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

Hint: Think about how you would line up the numbers for subtraction.

◯ Align the leftmost digits
◯ **Align the decimal points** ✓
◯ Align the rightmost digits
◯ 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)

Hint: Think about the positions of digits in a decimal number.

☐ **Tenths** ✓
☐ Hundreds
☐ **Thousandths** ✓
☐ 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.

Hint: Consider how zeros help maintain the value of the numbers.

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

List the steps involved in subtractING decimals.

Hint: Think about the process from start to finish.

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?

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Hint: Visualize how the numbers should be lined up for subtraction.

○ 5.2 -3.75
○ **5.20 -3.75** ✓
○ 5.2 -3.7
○ 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)

Hint: Consider how borrowing works in subtraction.

☐ You can only borrow from the whole number part.
☐ **BorrowING is similar to borrowING in whole number subtraction.** ✓
☐ **You may need to borrow across decimal places.** ✓
☐ 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.

Hint: Think about errors that can occur during the process.

| **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?

Hint: Perform the subtraction carefully.

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○ **3.33 ✔**
○ 3.43
○ 3.53
○ 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)

Hint: Think about situations where you would need to subtract decimal values.

☐ **Calculating change from a purchase ✔**
☐ **Measuring the difference in temperature ✔**
☐ Counting whole apples
☐ **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?

Hint: Perform the subtraction to find the remaining length.

> **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?

Hint: Perform the subtraction carefully.

○ **0.093 ✔**
○ 0.097
○ 0.103
○ 0.107

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> 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)

Hint: Consider the process of subtractING decimals.

- ☑ **Align the decimal points ✓**
- ☑ **Add zeros to make the decimal places equal ✓**
- ☑ **Borrow from the whole number part ✓**
- ☐ 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?

Hint: Perform the subtraction to find the correct answer.

- ◯ **4.74 ✓**
- ◯ 4.84
- ◯ 4.64
- ◯ 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)

Hint: Consider the effect of adding zeros on decimal numbers.

- ☐ True, it increases the value
- ☑ **False, it does not change the value ✓**
- ☐ True, it decreases the value
- ☑ **False, it maintains the same value ✓**

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

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

Hint: Think about a scenario where you would need to subtract decimal values.

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

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