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Dividing Decimals By Decimals Worksheet Answer Key PDF

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Part 1: Foundational Knowledge

What is the main purpose of the decimal point in a number?

undefined. A) To separate thousands from hundreds

undefined. B) To indicate a negative number

undefined. C) To separate whole numbers from fractional parts ✓

undefined. D) To show multiplication

The decimal point separates whole numbers from fractional parts.

Which of the following are correct representations of decimals? (Select all that apply)

undefined. A) 0.5 ✓

undefined. B) 1.25 ✓

undefined. C) 3.00 ✓

undefined. D) 4.5 ✓

The correct representations of decimals include 0.5, 1.25, 3.00, and 4.5.

Explain in your own words why it is important to move the decimal point in both the dividend and divisor when dividing decimals.

Moving the decimal point ensures that the division is performed correctly with whole numbers, simplifying the process.

List the steps involved in performing long division with decimals.

1. Step 1
Move the decimal point in the divisor.

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2. Step 2

Move the decimal point in the dividend.

3. Step 3

Perform the division as with whole numbers.

4. Step 4

Place the decimal point in the quotient.

The steps include moving the decimal, dividing, multiplying, and subtract the result.

Part 2: Comprehension

When dividing 4.56 by 0.12, how many places should you move the decimal point to make the divisor a whole number?

undefined. A) 1 place to the right

undefined. B) 2 places to the right ✓

undefined. C) 1 place to the left

undefined. D) 2 places to the left

You should move the decimal point 2 places to the right.

Which of the following are reasons for rounding decimals? (Select all that apply)

undefined. A) To simplify complex calculations ✓

undefined. B) To ensure exact results

undefined. C) To make estimates easier ✓

undefined. D) To reduce calculation errors ✓

Rounding decimals is done to simplify calculations, make estimates easier, and reduce calculation errors.

Describe a real-world scenario where dividing decimals is necessary and explain how you would solve it.

A scenario could involve splitting a bill or measuring ingredients, and the solution would involve performing the division.

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Part 3: Application

If you have $45.60 and need to divide it equally among 12 people, how much does each person get?

undefined. A) $3.80 ✓

undefined. B) $3.75

undefined. C) $3.70

undefined. D) $3.65

Each person would get $3.80.

Which of the following calculations require dividing decimals? (Select all that apply)

undefined. A) Converting currency ✓

undefined. B) Calculating average speed ✓

undefined. C) Measuring ingredients for a recipe ✓

undefined. D) Determining tax rates ✓

Calculations that require dividing decimals include converting currency, calculating average speed, measuring ingredients, and determining tax rates.

Calculate the result of dividing 7.84 by 0.4 and explain each step of your process.

The result of dividing 7.84 by 0.4 is 19.6, and the steps include moving the decimal and performing the division.

Part 4: Analysis

When analyzing the division of 9.36 by 0.78, what is the first step you should take?

undefined. A) Perform the division directly

undefined. B) Move the decimal point in the divisor ✓

undefined. C) Estimate the result

undefined. D) Round the dividend

The first step is to move the decimal point in the divisor.

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

undefined. A) The quotient is always smaller than the dividend

undefined. B) The decimal point in the quotient must be placed correctly ✓

undefined. C) You can ignore the decimal point in the divisor

undefined. D) Estimation can help verify the result ✓

True statements include that the decimal point in the quotient must be placed correctly and that estimation can help verify the result.

Analyze the division problem 5.67 ÷ 0.3 and explain how you would ensure the accuracy of your result.

To ensure accuracy, I would check my calculations and possibly use estimation to verify the result.

Part 5: Evaluation and Creation

After dividing 8.91 by 0.27, you get a quotient of 33. How would you verify this result?

undefined. A) Multiply the quotient by the divisor ✓

undefined. B) Subtract the divisor from the dividend

undefined. C) Add the quotient to the dividend

undefined. D) Divide the quotient by the divisor

You would verify the result by multiplying the quotient by the divisor.

Which methods can be used to check the accuracy of a division involving decimals? (Select all that apply)

undefined. A) Estimation ✓

undefined. B) Re-calculating using multiplication ✓

undefined. C) Using a calculator ✓

undefined. D) Rounding the result

Methods to check accuracy include estimation, re-calculating using multiplication, and using a calculator.

Create a real-world problem that involves dividing decimals and provide a detailed solution.

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A real-world problem could involve budgeting or cooking, and the solution would detail the division process.

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