

Rounding Decimals Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is the main purpose of rounding decimals?

undefined. a) To increase the value of a number

undefined. b) To simplify numbers for easier interpretation ✓

undefined. c) To convert decimals to fractions

undefined. d) To make numbers more complex

The main purpose of rounding decimals is to simplify numbers for easier interpretation.

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The main purpose of rounding decimals is to simplify numbers for easier interpretation.

Which of the following are steps in the process of rounding decimals?

undefined. a) Identify the place value to round to ✓

undefined. b) Multiply the number by 10

undefined. c) Look at the digit to the right of the rounding place ✓

undefined. d) Add 1 to the digit if the number is 5 or greater ✓

The steps include identifying the place value, looking at the next digit, and adjusting if necessary.

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The steps include identifying the place value, looking at the next digit, and rounding accordingly.

Explain why rounding decimals is important in everyday life. Provide at least two examples of its application.

Rounding decimals is important for simplifying calculations and making estimates in daily activities.

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Part 2: Comprehension and Interpretation

If you round the number 3.786 to two decimal places, what is the result?

undefined. a) 3.78

undefined. b) 3.79 ✓

undefined. c) 3.80

undefined. d) 3.77

Rounding 3.786 to two decimal places results in 3.79.

If you round the number 3.786 to two decimal places, what is the result?

undefined. a) 3.78

undefined. b) 3.79 ✓

undefined. c) 3.80

undefined. d) 3.77

The result of rounding 3.786 to two decimal places is 3.79.

Which of the following statements are true about rounding the number 4.256 to one decimal place?

undefined. a) The result is 4.3 ✓

undefined. b) The digit 5 is crucial in deciding whether to round up ✓

undefined. c) The digit 6 is ignored in the rounding process ✓

undefined. d) The result is 4.2

The true statements include that the result is 4.3 and the digit 5 is crucial in deciding whether to round up.

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The true statements include that the result is 4.3 and the digit 5 is crucial in deciding whether to round up.

Describe a scenario in a scientific experiment where rounding decimals might be necessary. Why is precision important in this context?

Rounding is necessary in scientific experiments to ensure measurements are manageable while maintaining accuracy.

Describe a scenario in a scientific experiment where rounding decimals might be necessary. Why is precision important in this context?

In scientific experiments, rounding is necessary for reporting measurements accurately while maintaining precision.

Part 3: Application and Analysis

You are estimating the total cost of groceries that come to \$47.89. If you round to the nearest dollar, what is the estimated cost?

undefined. a) \$47

undefined. b) \$48 ✓

undefined. c) \$49

undefined. d) \$50

Rounding \$47.89 to the nearest dollar results in an estimated cost of \$48.

You are estimating the total cost of groceries that come to \$47.89. If you round to the nearest dollar, what is the estimated cost?

undefined. a) \$47

undefined. b) \$48 ✓

undefined. c) \$49

undefined. d) \$50

The estimated cost when rounding \$47.89 to the nearest dollar is \$48.

In which of the following situations would rounding to the nearest whole number be most appropriate?

undefined. a) Calculating the number of people attending a concert ✓

undefined. b) Measuring the length of a pencil

undefined. c) Determining the time it takes to travel 100 miles

undefined. d) Estimating the cost of a meal at a restaurant

Rounding to the nearest whole number is most appropriate when counting discrete items, like people.

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Rounding to the nearest whole number is most appropriate when counting discrete items, like people.

Apply the rules of rounding to simplify the number 12.3456 to three decimal places. Explain each step in your process.

To round 12.3456 to three decimal places, look at the fourth decimal place and adjust accordingly.

Apply the rules of rounding to simplify the number 12.3456 to three decimal places. Explain each step in your process.

To round 12.3456 to three decimal places, look at the fourth decimal place and round accordingly.

Part 4: Evaluation and Creation

When rounding the number 9.995 to two decimal places, what is the result?

undefined. a) 9.99

undefined. b) 10.00 ✓

undefined. c) 9.98

undefined. d) 9.97

Rounding 9.995 to two decimal places results in 10.00.

When rounding the number 9.995 to two decimal places, what is the result?

undefined. a) 9.99

undefined. b) 10.00 ✓

undefined. c) 9.98

undefined. d) 9.97

The result of rounding 9.995 to two decimal places is 10.00.

Analyze the following numbers and determine which are correctly rounded to one decimal place:

undefined. a) 5.67 rounded to 5.7 ✓

undefined. b) 8.34 rounded to 8.3 ✓

undefined. c) 2.55 rounded to 2.6 ✓

undefined. d) 7.89 rounded to 7.8

The correctly rounded numbers are 5.67 to 5.7, 8.34 to 8.3, and 2.55 to 2.6.

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undefined. a) 5.67 rounded to 5.7 ✓

undefined. b) 8.34 rounded to 8.3

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The correctly rounded numbers are 5.7, 8.3, and 2.6.

Analyze the impact of rounding errors in financial reports. How might these errors affect decision-making in a business context?

Rounding errors in financial reports can lead to miscalculations, affecting budgets and financial decisions.

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Rounding errors in financial reports can lead to misinformed decisions and financial discrepancies.

Evaluate the following statement: "Rounding always results in a loss of accuracy." Is this statement true or false?

undefined. a) True

undefined. b) False ✓

undefined. c) Not sure

undefined. d) Depends on the context

The statement is false; rounding can sometimes maintain an acceptable level of accuracy.

Evaluate the following statement: "Rounding always results in a loss of accuracy." Is this statement true or false?

undefined. a) True

undefined. b) False ✓

undefined. c) Not sure

undefined. d) It depends

The statement is false; rounding can simplify numbers without always losing significant accuracy.

Which of the following scenarios would benefit from a more precise rounding method?

undefined. a) Calculating medication dosages ✓

undefined. b) Estimating the number of attendees at a large event

undefined. c) Determining the length of a marathon race ✓

undefined. d) Calculating the distance between two cities

Scenarios like calculating medication dosages and determining marathon lengths benefit from precise rounding.

Which of the following scenarios would benefit from a more precise rounding method?

undefined. a) Calculating medication dosages ✓

undefined. b) Estimating the number of attendees at a large event

undefined. c) Determining the length of a marathon race

undefined. d) Calculating the distance between two cities

Scenarios like calculating medication dosages require more precise rounding methods.

Create a real-world problem where rounding decimals is essential. Describe the problem and explain how rounding helps solve it.

Rounding is essential in budgeting, where precise amounts are often rounded for simplicity and clarity.

Create a real-world problem where rounding decimals is essential. Describe the problem and explain how rounding helps solve it.

Rounding helps in budgeting scenarios where precise amounts are not necessary but estimates are needed.