

Rounding Worksheets Answer Key PDF

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Part 1: Building a Foundation

What is the primary purpose of rounding numbers?

undefined. A) To make numbers more precise

undefined. B) To simplify numbers for easier calculations ✓

undefined. C) To increase the value of numbers

undefined. D) To change the number completely

The primary purpose of rounding numbers is to simplify them for easier calculations.

Which of the following are place values used in rounding whole numbers? (Select all that apply)

undefined. A) Units ✓

undefined. B) Tenths

undefined. C) Hundreds ✓

undefined. D) Thousandths

Place values used in rounding whole numbers include units, hundreds, and others.

Explain the basic rule for rounding a number when the digit to the right of the target place value is 5 or greater.

When the digit to the right is 5 or greater, you round up the target digit.

List the steps involved in rounding a decimal number to the nearest tenth.

1. Step 1

Identify the tenths place.

2. Step 2

Look at the hundredths place.

3. Step 3

Round up or down based on the hundredths place.

The steps include identifying the tenths place, looking at the hundredths place, and rounding accordingly.

Part 2: Comprehension and Application

When rounding the number 47 to the nearest ten, what is the result?

undefined. A) 40

undefined. B) 45

undefined. C) 50 ✓

undefined. D) 47

The result of rounding 47 to the nearest ten is 50.

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

undefined. A) Rounding decimals follows the same basic rules as rounding whole numbers. ✓

undefined. B) You always round up when the digit is 4 or less.

undefined. C) The place value to which you round can be tenths, hundredths, or thousandths. ✓

undefined. D) Rounding decimals is only used in scientific calculations.

True statements include that rounding decimals follows the same rules as whole numbers and can be done at various place values.

Describe a real-world scenario where rounding a number might be necessary and beneficial.

Rounding is often necessary in budgeting, estimating costs, or reporting data.

If you round the number 3.678 to the nearest hundredth, what is the result?

undefined. A) 3.67

undefined. B) 3.68 ✓

undefined. C) 3.70

undefined. D) 3.60

The result of rounding 3.678 to the nearest hundredth is 3.68.

Apply the rounding rules to round the number 2567 to the nearest hundred and explain your reasoning.

To round 2567 to the nearest hundred, look at the digit in the tens place and round accordingly.

Part 3: Analysis, Evaluation, and Creation

Which of the following numbers rounds to 200 when rounded to the nearest hundred?

undefined. **A) 150 ✓**

undefined. B) 249

undefined. C) 251

undefined. D) 299

The number that rounds to 200 is 150.

Analyze the following numbers and select those that round to 5.0 when rounded to the nearest tenth. (Select all that apply)

undefined. **A) 4.95 ✓**

undefined. **B) 5.04 ✓**

undefined. **C) 5.05 ✓**

undefined. D) 4.94

The numbers that round to 5.0 are 4.95, 5.04, and 5.05.

Analyze the impact of rounding on financial statements and discuss how rounding might affect the interpretation of financial data.

Rounding can lead to significant changes in reported figures, affecting decision-making.

Which of the following is a potential downside of rounding numbers in scientific research?

undefined. A) Increased precision

undefined. **B) Loss of significant data ✓**

undefined. C) Easier calculations

undefined. D) Improved clarity

A potential downside of rounding in scientific research is the loss of significant data.

Evaluate the following scenarios and determine which ones could lead to significant errors if rounding is not done carefully. (Select all that apply)

undefined. A) Calculating medication dosages ✓

undefined. B) Estimating travel time

undefined. C) Preparing a grocery list

undefined. D) Designing a building ✓

Scenarios that could lead to significant errors include calculating medication dosages and designing a building.

Create a real-world problem that involves rounding and requires critical thinking to solve. Provide a solution to your problem, explaining the steps and reasoning involved.

A real-world problem could involve budgeting for a project, requiring careful rounding of costs.