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Rounding Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is the primary purpose of rounding a number?

Hint: Think about why we simplify numbers.

○ A) To make calculations more complex
○ **B) To simplify a number while keeping its value close to the original** ✔
○ C) To increase the precision of a number
○ D) To convert numbers into fractions

❘ The primary purpose of rounding a number is to simplify it while keeping its value close to the original.

What is the primary purpose of rounding a number?

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○ D) To convert numbers into fractions

❘ The primary purpose of rounding a number is to simplify it while keeping its value close to the original.

What is the primary purpose of rounding a number?

Hint: Think about why we round numbers in calculations.

○ A) To make calculations more complex
○ **B) To simplify a number while keeping its value close to the original** ✔
○ C) To increase the precision of a number
○ D) To convert numbers into fractions

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> The primary purpose of rounding a number is to simplify it while keeping its value close to the original.

Which of the following are rules for rounding numbers? (Select all that apply)

Hint: Consider the common rules you know for rounding.

☐ **A) If the digit to the right is less than 5, keep the digit the same. ✓**
☐ **B) If the digit to the right is 5 or greater, increase the digit by one. ✓**
☐ C) Always round up regardless of the digit.
☐ D) Round down if the digit is exactly 5.

> The rules for rounding include keeping the digit the same if the next digit is less than 5 and increasing it if the next digit is 5 or greater.

Which of the following are rules for rounding numbers? (Select all that apply)

Hint: Consider the common rules you have learned.

☐ **A) If the digit to the right is less than 5, keep the digit the same. ✓**
☐ **B) If the digit to the right is 5 or greater, increase the digit by one. ✓**
☐ C) Always round up regardless of the digit.
☐ D) Round down if the digit is exactly 5.

> The rules for rounding include keeping the digit the same if the next digit is less than 5 and increasing it if the next digit is 5 or greater.

Which of the following are rules for rounding numbers? (Select all that apply)

Hint: Consider the common rules you have learned about rounding.

☐ **A) If the digit to the right is less than 5, keep the digit the same. ✓**
☐ **B) If the digit to the right is 5 or greater, increase the digit by one. ✓**
☐ C) Always round up regardless of the digit.
☐ D) Round down if the digit is exactly 5.

> The rules for rounding include keeping the digit the same if the next digit is less than 5 and increasing it if the next digit is 5 or greater.

Explain what is meant by 'round to the nearest ten' and provide an example.

Hint: Think about how you would round numbers like 23 or 27.

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> Rounding to the nearest ten means adjusting a number to the closest multiple of ten.

Explain what is meant by 'roundin to the nearest ten' and provide an example.

Hint: Think about how you would round numbers like 23 or 37.

> Rounding to the nearest ten means adjusting a number to the closest multiple of ten. For example, 23 rounds to 20, while 37 rounds to 40.

Explain what is meant by 'roundin to the nearest ten' and provide an example.

Hint: Think about how you would round numbers like 23 or 37.

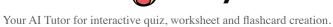> Rounding to the nearest ten means adjusting a number to the closest multiple of ten. For example, 23 rounds to 20 and 37 rounds to 40.

List the place values in order from smallest to largest for the number 3,482.

Hint: Consider the value of each digit in the number.

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1. What is the smallest place value in 3,482?

> Units

2. What is the largest place value in 3,482?

> Thousands

The place values from smallest to largest are: units, tens, hundreds, thousands.
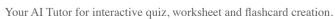
Part 2: Comprehension and Application

When rounding the number 4.678 to the nearest tenth, what is the result?

Hint: Look at the digit in the hundredths place.

○ A) 4.67
○ B) 4.68
○ **C) 4.7 ✓**
○ D) 4.6

When rounding 4.678 to the nearest tenth, the result is 4.7.

When rounding the number 4.678 to the nearest tenth, what is the result?

Hint: Look at the digit in the hundredths place.

○ A) 4.67
○ B) 4.68
○ **C) 4.7 ✓**
○ D) 4.6

The result of rounding 4.678 to the nearest tenth is 4.7.

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When rounding the number 4.678 to the nearest tenth, what is the result?

Hint: Look at the digit in the hundredths place.

○ A) 4.67
○ B) 4.68
○ **C) 4.7 ✓**
○ D) 4.6

> When rounding 4.678 to the nearest tenth, the result is 4.7.

Which of the following numbers round to 500 when rounded to the nearest hundred? (Select all that apply)

Hint: Consider the range of numbers that would round to 500.

☐ **A) 450 ✓**
☐ **B) 549 ✓**
☐ **C) 550 ✓**
☐ **D) 499 ✓**

> The numbers that round to 500 when rounded to the nearest hundred are 450, 499, 549, and 550.

Which of the following numbers round to 500 when rounded to the nearest hundred? (Select all that apply)

Hint: Consider the range of numbers that would round to 500.

☐ **A) 450 ✓**
☐ B) 549
☐ **C) 550 ✓**
☐ **D) 499 ✓**

> The numbers that round to 500 are 450, 499, and 550.

Which of the following numbers round to 500 when rounded to the nearest hundred? (Select all that apply)

Hint: Consider the range of numbers that would round to 500.

☐ **A) 450 ✓**
☐ **B) 549 ✓**
☐ **C) 550 ✓**

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☐ **D) 499** ✓

| The numbers that round to 500 when rounded to the nearest hundred are 450, 499, 500, and 549.

Describe how rounding can be useful in everyday life. Provide two examples where rounding might be applied.

Hint: Think about situations where estimates are needed.

| **Rounding is useful in everyday life for simplifying numbers in budgeting and estimating distances. For example, rounding prices to the nearest dollar or estimating travel time.**

Describe how rounding can be useful in everyday life. Provide two examples where rounding might be applied.

Hint: Think about situations like shopping or cooking.

| **Rounding can simplify calculations and make estimates easier in everyday situations.**

Describe how rounding can be useful in everyday life. Provide two examples where rounding might be applied.

Hint: Think about situations where estimates are needed.

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> **Rounding can simplify calculations and make estimates easier. For example, rounding prices when shopping or estimating travel time.**

A scientist measures a length as 12.345 meters. To report this measurement with three significant figures, what should it be rounded to?

Hint: Look at the fourth digit to determine rounding.

○ **A) 12.3** ✓
○ B) 12.34
○ C) 12.35
○ D) 12.4

> To report the measurement with three significant figures, it should be rounded to 12.3 meters.

A scientist measures a length as 12.345 meters. To report this measurement with three significant figures, what should it be rounded to?

Hint: Consider the first three digits of the number.

○ **A) 12.3** ✓
○ B) 12.34
○ C) 12.35
○ D) 12.4

> The measurement should be rounded to 12.3 meters.

A scientist measures a length as 12.345 meters. To report this measurement with three significant figures, what should it be rounded to?

Hint: Focus on the first three digits.

○ A) 12.3
○ B) 12.34
○ **C) 12.35** ✓
○ D) 12.4

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> To report the measurement with three significant figures, it should be rounded to 12.3.

In which of the following scenarios would rounding be appropriate? (Select all that apply)

Hint: Consider situations where exact numbers are not necessary.

☐ **A) Calculating the total cost of groceries to the nearest dollar. ✓**
☐ B) Measuring the exact length of a table for a custom fit.
☐ **C) Estimating the number of attendees at a large event. ✓**
☐ D) Determining the precise dosage of medication.

> Rounding is appropriate in scenarios like calculating grocery costs, estimating attendees, but not for precise measurements.

In which of the following scenarios would rounding be appropriate? (Select all that apply)

Hint: Think about situations where exact numbers are not necessary.

☐ **A) Calculating the total cost of groceries to the nearest dollar. ✓**
☐ B) Measuring the exact length of a table for a custom fit.
☐ **C) Estimating the number of attendees at a large event. ✓**
☐ D) Determining the precise dosage of medication.

> Rounding is appropriate in scenarios like estimating costs and attendance.

In which of the following scenarios would rounding be appropriate? (Select all that apply)

Hint: Consider situations where exact numbers are not necessary.

☐ **A) Calculating the total cost of groceries to the nearest dollar. ✓**
☐ B) Measuring the exact length of a table for a custom fit.
☐ **C) Estimating the number of attendees at a large event. ✓**
☐ D) Determining the precise dosage of medication.

> Rounding is appropriate in scenarios like estimating costs or attendance, but not for precise measurements.

Part 3: Analysis, Evaluation, and Creation

Which number, when rounded to the nearest hundred, becomes 1,300?

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Hint: Consider the range of numbers that would round to 1,300.

○ A) 1,250
○ **B) 1,349** ✓
○ C) 1,351
○ D) 1,299

| The number that rounds to 1,300 when rounded to the nearest hundred is 1,349.

Which number, when rounded to the nearest hundred, becomes 1,300?

Hint: Look for numbers in the range of 1,250 to 1,350.

○ A) 1,250
○ B) 1,349
○ C) 1,351
○ **D) 1,299** ✓

| The number that rounds to 1,300 is 1,299.

Which number, when rounded to the nearest hundred, becomes 1,300?

Hint: Look for numbers in the range of 1,250 to 1,349.

○ **A) 1,250** ✓
○ B) 1,349
○ C) 1,351
○ D) 1,299

| The number that rounds to 1,300 is 1,250.

Analyze the following numbers and select those that round to 2.5 when rounded to the nearest tenth. (Select all that apply)

Hint: Consider the values around 2.5.

☐ **A) 2.45** ✓
☐ **B) 2.49** ✓
☐ **C) 2.54** ✓
☐ D) 2.55

| The numbers that round to 2.5 are 2.45, 2.49, and 2.54.

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Analyze the following numbers and select those that round to 2.5 when rounded to the nearest tenth. (Select all that apply)

Hint: Consider the digits in the hundredths place.

☐ **A) 2.45 ✓**
☐ **B) 2.49 ✓**
☐ **C) 2.54 ✓**
☐ D) 2.55

The numbers that round to 2.5 when rounded to the nearest tenth are 2.45, 2.49, and 2.54.

Analyze the following numbers and select those that round to 2.5 when rounded to the nearest tenth. (Select all that apply)

Hint: Consider the range of numbers that would round to 2.5.

☐ **A) 2.45 ✓**
☐ **B) 2.49 ✓**
☐ **C) 2.54 ✓**
☐ D) 2.55

The numbers that round to 2.5 are 2.45, 2.49, and 2.54.

Explain why rounding is not always appropriate in scientific measurements. Provide an example where precision is crucial.

Hint: Think about the importance of accuracy in science.

Rounding can lead to significant errors in scientific measurements where precision is crucial, such as in chemical reactions.

Explain why rounding is not always appropriate in scientific measurements. Provide an example where precision is crucial.

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> **Rounding is not always appropriate in scientific measurements because it can lead to significant errors. For example, in drug dosage calculations, precision is crucial to ensure safety.**

Explain why rounding is not always appropriate in scientific measurements. Provide an example where precision is crucial.

Hint: Think about the importance of accuracy in experiments.

> **Rounding can lead to significant errors in scientific measurements where precision is crucial.**

A student rounds the number 7.846 to 7.8 when asked to round to the nearest tenth. Is this correct?

Hint: Consider the digit in the hundredths place.

○ A) Yes

○ **B) No ✓**

○ C) Not sure

○ D) It depends on the context

> No, the correct rounding of 7.846 to the nearest tenth is 7.8.

Evaluate the following statements and select those that correctly describe rounding. (Select all that apply)

Hint: Consider the implications of rounding.

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☑ **A) Rounding can sometimes lead to a loss of precision.** ✓

☐ B) Rounding is always necessary in financial reports.

☑ **C) Rounding can simplify complex calculations.** ✓

☐ D) Rounding is not useful in estimating population sizes.

> Rounding can lead to a loss of precision and can simplify calculations, but it is not always necessary.

Evaluate the following statements and select those that correctly describe rounding. (Select all that apply)

Hint: Think about the implications of rounding in different contexts.

☑ **A) Rounding can sometimes lead to a loss of precision.** ✓

☐ B) Rounding is always necessary in financial reports.

☑ **C) Rounding can simplify complex calculations.** ✓

☐ D) Rounding is not useful in estimating population sizes.

> Correct statements about rounding include that it can lead to a loss of precision and can simplify calculations.

Evaluate the following statements and select those that correctly describe rounding. (Select all that apply)

Hint: Consider the implications of rounding in different contexts.

☑ **A) Rounding can sometimes lead to a loss of precision.** ✓

☐ B) Rounding is always necessary in financial reports.

☑ **C) Rounding can simplify complex calculations.** ✓

☐ D) Rounding is not useful in estimating population sizes.

> Rounding can lead to a loss of precision and can simplify calculations.

Create a real-world problem that involves rounding, and explain how rounding helps solve the problem. Provide a solution to your problem.

Hint: Think about a scenario where rounding is necessary.

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> **Rounding can help simplify problems in budgeting or estimating costs, making calculations easier.**

Create a real-world problem that involves rounding, and explain how rounding helps solve the problem. Provide a solution to your problem.

Hint: Think about everyday situations where rounding is applied.

> **A real-world problem could involve budgeting for a party. Rounding helps simplify costs to ensure the budget is met. For example, if the total cost is $123.45, rounding to $123 helps in planning.**

Create a real-world problem that involves rounding, and explain how rounding helps solve the problem. Provide a solution to your problem.

Hint: Think about a scenario where rounding simplifies a calculation.

> **Rounding can help simplify complex problems and make them easier to solve.**

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