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Ordering Decimals Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is the place value of the digit 7 in the decimal number 3.476?

Hint: Consider the position of the digit in relation to the decimal point.

◯ A) Tenths
◯ **B) Hundredths ✓**
◯ C) Thousandths
◯ D) Units

> The place value of the digit 7 is hundredths.

What is the place value of the digit 7 in the decimal number 3.476?

Hint: Consider the position of the digit in relation to the decimal point.

◯ Tenths
◯ **Hundredths ✓**
◯ Thousandths
◯ Units

> The place value of the digit 7 is in the hundredths place.

What is the place value of the digit 7 in the decimal number 3.476?

Hint: Consider the position of the digit in relation to the decimal point.

◯ A) Tenths
◯ **B) Hundredths ✓**
◯ C) Thousandths
◯ D) Units

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The place value of the digit 7 is hundredths.

Which of the following are correct representations of decimals?

Hint: Identify which options are valid decimal numbers.

☐ **A) 0.5 ✓**
☐ **B) 5.0 ✓**
☐ C) 50
☐ **D) 0.05 ✓**

The correct representations of decimals are 0.5, 5.0, and 0.05.

Which of the following are correct representations of decimals?

Hint: Look for numbers that include a decimal point.

☐ **0.5 ✓**
☐ **5.0 ✓**
☐ 50
☐ **0.05 ✓**

The correct representations of decimals include 0.5, 5.0, and 0.05.

Which of the following are correct representations of decimals?

Hint: Identify which options are valid decimal numbers.

☐ **A) 0.5 ✓**
☐ **B) 5.0 ✓**
☐ C) 50
☐ **D) 0.05 ✓**

The correct representations of decimals are 0.5, 5.0, and 0.05.

Explain what a decimal is and how it is used in the number system.

Hint: Consider the definition and practical applications of decimals.

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> **A decimal is a fraction expressed in a special form, and it is used to represent values that are not whole numbers.**

Explain what a decimal is and how it is used in the number system.

Hint: Consider the definition and examples of decimals.

> **A decimal is a fraction expressed in a special form, where the denominator is a power of ten, and it is used to represent values that are not whole numbers.**

Explain what a decimal is and how it is used in the number system.

Hint: Consider the definition and practical applications of decimals.

> **A decimal is a fraction expressed in a special form, and it is used to represent values that are not whole numbers.**

Part 2: comprehension and Application

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Which decimal is greater: 0.67 or 0.76?

Hint: Compare the two decimals to determine which is larger.

○ A) 0.67
○ **B) 0.76 ✓**
○ C) They are equal
○ D) Cannot be determined

| The decimal 0.76 is greater than 0.67.

Which decimal is greater: 0.67 or 0.76?

Hint: Compare the two decimals by looking at their digits from left to right.

○ 0.67
○ **0.76 ✓**
○ They are equal
○ Can not be determined

| 0.76 is greater than 0.67.

Which decimal is greater: 0.67 or 0.76?

Hint: Compare the two decimals to determine which is larger.

○ A) 0.67
○ **B) 0.76 ✓**
○ C) They are equal
○ D) Cannot be determined

| The decimal 0.76 is greater than 0.67.

Which of the following decimals are in ascending order?

Hint: Identify the sequence that correctly lists the decimals from smallest to largest.

☐ **A) 0.45, 0.54, 0.56 ✓**
☐ B) 0.56, 0.54, 0.45
☐ C) 0.54, 0.45, 0.56
☐ D) 0.45, 0.56, 0.54

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The correct ascending order is 0.45, 0.54, 0.56.

Which of the following decimals are in ascending order?

Hint: Look for the sequence that starts with the smallest value.

☐ **0.45, 0.54, 0.56** ✓
☐ 0.56, 0.54, 0.45
☐ 0.54, 0.45, 0.56
☐ 0.45, 0.56, 0.54

The correct ascending order is 0.45, 0.54, 0.56.

Which of the following decimals are in ascending order?

Hint: Arrange the decimals from the smallest to the largest.

☐ **A) 0.45, 0.54, 0.56** ✓
☐ B) 0.56, 0.54, 0.45
☐ C) 0.54, 0.45, 0.56
☐ D) 0.45, 0.56, 0.54

The correct ascending order is 0.45, 0.54, 0.56.

Describe how you would compare two decimals to determine which is larger.

Hint: Think about the steps you would take to compare the values.

To compare two decimals, align them by the decimal point and compare digit by digit from left to right.

Describe how you would compare two decimals to determine which is larger.

Hint: Think about the steps you would take to compare the values.

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> **To compare two decimals, align them by the decimal point and compare digit by digit from left to right.**

Describe how you would compare two decimals to determine which is larger.

Hint: Think about the steps you would take to compare the values.

> **To compare two decimals, align them by the decimal point and compare digit by digit from left to right.**

If you round the decimal 4.657 to the nearest tenth, what is the result?

Hint: Look at the digit in the hundredths place to round correctly.

○ A) 4.6
○ **B) 4.7** ✓
○ C) 4.65
○ D) 4.66

> When rounded to the nearest tenth, 4.657 becomes 4.7.

If you round the decimal 4.657 to the nearest tenth, what is the result?

Hint: Look at the digit in the hundredths place to decide how to round.

○ 4.6
○ **4.7** ✓

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○ 4.65

○ 4.66

❘ When rounded to the nearest tenth, 4.657 becomes 4.7.

If you round the decimal 4.657 to the nearest tenth, what is the result?

Hint: Look at the digit in the hundredths place to round correctly.

○ A) 4.6

○ **B) 4.7 ✓**

○ C) 4.65

○ D) 4.66

❘ When rounded to the nearest tenth, 4.657 becomes 4.7.

Which of the following decimals can be rounded to 3.5 when rounded to the nearest tenth?

Hint: Consider the values that would round to 3.5.

☐ A) 3.45

☐ **B) 3.49 ✓**

☐ **C) 3.51 ✓**

☐ D) 3.54

❘ The decimals that can be rounded to 3.5 are 3.49 and 3.51.

Which of the following decimals can be rounded to 3.5 when rounded to the nearest tenth?

Hint: Consider the values that are close to 3.5.

☐ 3.45

☐ **3.49 ✓**

☐ **3.51 ✓**

☐ 3.54

❘ The decimals that can be rounded to 3.5 are 3.49 and 3.51.

Which of the following decimals can be rounded to 3.5 when rounded to the nearest tenth?

Hint: Consider the values that would round to 3.5.

☐ **A) 3.45 ✓**

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☐ **B) 3.49** ✓
☐ **C) 3.51** ✓
☐ D) 3.54

The decimals that can be rounded to 3.5 are 3.45, 3.49, and 3.51.

Convert the fraction 3/4 into a decimal and explain the process.

Hint: Think about how to divide the numerator by the denominator.

The fraction 3/4 converts to 0.75 by dividing 3 by 4.

Convert the fraction 3/4 into a decimal and explain the process.

Hint: Think about how to divide the numerator by the denominator.

The fraction 3/4 converts to 0.75 by dividing 3 by 4.

Convert the fraction 3/4 into a decimal and explain the process.

Hint: Think about how to divide the numerator by the denominator.

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> **The fraction 3/4 converts to 0.75 by dividing 3 by 4.**

Part 3: Analysis, Evaluation, and Creation

Which of the following sets of decimals are correctly ordered from greatest to least?

Hint: Identify the sequence that lists the decimals from largest to smallest.

○ **A) 0.98, 0.89, 0.79** ✔
○ B) 0.79, 0.89, 0.98
○ C) 0.89, 0.98, 0.79
○ D) 0.98, 0.79, 0.89

> The correct order from greatest to least is 0.98, 0.89, 0.79.

Which of the following sets of decimals are correctly ordered from greatest to least?

Hint: Look for the sequence that starts with the largest value.

○ **0.98, 0.89, 0.79** ✔
○ 0.79, 0.89, 0.98
○ 0.89, 0.98, 0.79
○ 0.98, 0.79, 0.89

> The correct order from greatest to least is 0.98, 0.89, 0.79.

Which of the following sets of decimals are correctly ordered from greatest to least?

Hint: Identify the order of the decimals from highest to lowest.

○ **A) 0.98, 0.89, 0.79** ✔
○ B) 0.79, 0.89, 0.98
○ C) 0.89, 0.98, 0.79

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○ D) 0.98, 0.79, 0.89

The correct order from greatest to least is 0.98, 0.89, 0.79.

Analyze the following decimals and select those that are equivalent to 0.5.

Hint: Identify which options represent the same value as 0.5.

☐ **A) 0.50 ✓**
☐ B) 0.05
☐ **C) 0.500 ✓**
☐ D) 0.55

The decimals equivalent to 0.5 are 0.50 and 0.500.

Analyze the following decimals and select those that are equivalent to 0.5.

Hint: Look for decimals that represent the same value.

☐ **0.50 ✓**
☐ 0.05
☐ **0.500 ✓**
☐ 0.55

The decimals equivalent to 0.5 are 0.50 and 0.500.

Analyze the following decimals and select those that are equivalent to 0.5.

Hint: Identify which decimals represent the same value as 0.5.

☐ **A) 0.50 ✓**
☐ B) 0.05
☐ **C) 0.500 ✓**
☐ D) 0.55

The decimals equivalent to 0.5 are 0.50 and 0.500.

Break down the decimal 0.725 into its component place values and explain their significance.

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

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> **The decimal 0.725 consists of 0 in the units place, 7 in the tenths place, 2 in the hundredths place, and 5 in the thousandths place.**

Break down the decimal 0.725 into its component place values and explain their significance.

Hint: Identify the value of each digit based on its position.

> **The decimal 0.725 consists of 0 in the units place, 7 in the tenths place, 2 in the hundredths place, and 5 in the thousandths place, each representing a fraction of ten.**

Break down the decimal 0.725 into its component place values and explain their significance.

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

> **The decimal 0.725 consists of 0 in the units place, 7 in the tenths place, 2 in the hundredths place, and 5 in the thousandths place.**

Which decimal best represents half of a dollar?

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Hint: Think about the value that is equivalent to 50 cents.

○ A) 0.25
○ **B) 0.50 ✓**
○ C) 0.75
○ D) 1.00

| The decimal that best represents half of a dollar is 0.50.

Which decimal best represents half of a dollar?

Hint: Think about the value of a dollar in decimal form.

○ 0.25
○ **0.50 ✓**
○ 0.75
○ 1.00

| The decimal that best represents half of a dollar is 0.50.

Which decimal best represents half of a dollar?

Hint: Think about the value of half in decimal form.

○ A) 0.25
○ **B) 0.50 ✓**
○ C) 0.75
○ D) 1.00

| The decimal that best represents half of a dollar is 0.50.

Evaluate the following scenarios and select those where decimals are appropriately used.

Hint: Consider the context of each scenario.

☐ **A) Measuring rainfall in inches ✓**
☐ B) Counting whole apples
☐ **C) Calculating interest rates ✓**
☐ D) Weighin produce in pounds

| Decimals are appropriately used in measuring rainfall in inches and calculating interest rates.

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Evaluate the following scenarios and select those where decimals are appropriately used.

Hint: Consider the context in which decimals are typically applied.

☐ **Measuring rainfall in inches ✓**
☐ Counting whole apples
☐ **Calculating interest rates ✓**
☐ **Weighin produce in pounds ✓**

> Decimals are appropriately used in measuring rainfall in inches, calculating interest rates, and weighing produce in pounds.

Evaluate the following scenarios and select those where decimals are appropriately used.

Hint: Consider the context of each scenario.

☐ **A) Measuring rainfall in inches ✓**
☐ B) Counting whole apples
☐ **C) Calculating interest rates ✓**
☐ D) Weighin produce in pounds

> Decimals are appropriately used in measuring rainfall in inches and calculating interest rates.

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

Hint: Think about a scenario where decimals are compared.

> **An example problem could involve comparing prices of items to determine the best deal.**

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

Hint: Think of a scenario where you need to compare decimal values.

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> **An example problem could involve comparing prices of items to determine which is the cheapest, and the solution would involve ordering the decimals representing the prices.**

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

Hint: Think about a scenario where decimals are compared.

> **An example problem could involve comparing prices of items to determine the best deal.**

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