

Fractions Into Decimals Worksheet

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Part 1: Building a Foundation

What is a fraction?

Hint: Think about how fractions are represented.

- A) A whole number
- B) A part of a whole expressed as `a/b`
- C) A decimal number
- O D) A percentage

Which of the following are true about decimals?

Hint: Consider the properties of decimal numbers.

- A) They are always less than 1
- B) They can represent whole numbers
- C) They are expressed in a base-10 system
- D) They are always greater than 1

Explain the relationship between fractions and decimals.

Hint: Think about how they can represent the same values.

List two common fractions and their decimal equivalents.

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Hint: Think of simple fractions like 1/2 or 1/4.

1. 1/2			
2. 1/4			

What method is commonly used to convert fractions to decimals?

Hint: Consider the mathematical operations involved.

- A) Multiplication
- B) Long division
- C) Addition
- D) Subtraction

Part 2: comprehension and Application

Which of the following is a repeating decimal?

Hint: Look for decimals that have a pattern.

- A) 0.5
- B) 0.333...
- 🔾 C) 0.25
- O D) 1.75

Which statements are true about terminating decimals?

Hint: Consider the characteristics of these decimals.

- A) They end after a finite number of digits
- B) They repeat indefinitely
- C) They can be converted back to fractions
- D) They are always greater than 1

Describe how you can identify if a fraction will result in a terminating or repeating decimal.

Hint: Think about the factors of the denominator.

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Convert the following fractions to decimals: 1/8, 3/5.

Hint: Use long division or a calculator.

1. 1/8

2.3/5

Explain the steps you would take to convert the fraction 7/9 into a decimal using long division.

Hint: Outline the long division process.

If you convert 1/4 into a decimal, what is the result?

Hint: Think about the decimal equivalent of common fractions.

A) 0.4B) 0.25

O C) 0.75

OD) 0.5

Part 3: Analysis, Evaluation, and Creation

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When analyzing the fraction 5/6, which of the following are true about its decimal form?

Hint: Consider the properties of the decimal representation.

□ A) It is a terminating decimal

B) It is a repeating decimal

C) It is greater than 0.8

D) It is less than 0.9

Analyze the pattern you observe when converting fractions with denominators of 10, 100, and 1000 into decimals.

Hint: Think about how the place value changes.

Which fraction will result in a decimal that repeats?

Hint: Consider the properties of fractions.

() A) 1/2

O B) 1/3

O C) 1/4

O D) 1/5

Evaluate the importance of understanding fraction to decimal conversions in real-world scenarios, such as financial calculations.

Hint: Think about how this knowledge is applied in daily life.

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Create two real-world problems where converting fractions to decimals would be necessary, and solve them.

Hint: Think about situations involving measurements or finances.

1. Problem 1: A recipe requires 3/4 cup of sugar. How much is that in decimal?

2. Problem 2: A store is offering a 25% discount on a \$40 item. What is the discount in decimal?

Which scenario best illustrates the use of decimals in everyday life?

Hint: Consider common situations where decimals are used.

- \bigcirc A) Measuring the length of a table
- B) Counting the number of apples
- \bigcirc C) Calculating the area of a square
- D) Determining the time of day