

Fractions To Decimals Worksheet

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Part 1: Building a Foundation

What is a fraction?

Hint: Think about the components of a fraction.

- A) A whole number
- B) A number with a numerator and a denominator
- C) A decimal number
- D) A negative number

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Which of the following are methods to convert fractions to decimals?

Hint: Consider the operations you can perform on fractions.

- A) Multiplication

- B) Division
- C) Addition
- D) Simplification

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Explain what a repeating decimal is and provide an example.

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List two characteristics of terminating decimals.

Hint: Consider the nature of their decimal representation.

1. Characteristic 1

2. Characteristic 2

Part 2: Comprehension and Application

Which fraction converts to a terminating decimal?

Hint: Think about the factors of the denominator.

- A) $\frac{1}{3}$
- B) $\frac{1}{4}$
- C) $\frac{2}{3}$
- D) $\frac{5}{6}$

Which fraction converts to a terminating decimal?

Hint: Think about the factors of the denominator.

- A) $1/3$
- B) $1/4$
- C) $2/3$
- D) $5/6$

Which fraction converts to a terminating decimal?

Hint: Think about the properties of the denominators.

- A) $1/3$
- B) $1/4$
- C) $2/3$
- D) $5/6$

Why is it important to simplify fractions before converting them to decimals?

Hint: Consider the impact on calculations.

- A) It makes division easier
- B) It changes the value of the fraction
- C) It helps in identifying repeating decimals
- D) It reduces calculation errors

Why is it important to simplify fractions before converting them to decimals?

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Describe how you would convert the fraction $\frac{3}{8}$ into a decimal.

Hint: Think about the division process.

Describe how you would convert the fraction $\frac{3}{8}$ into a decimal.

Hint: Think about the steps involved in the conversion process.

Describe how you would convert the fraction $\frac{3}{8}$ into a decimal.

Hint: Think about the division process.

Convert the fraction $\frac{5}{8}$ into a decimal.

Hint: Use division to find the answer.

- A) 0.625
 B) 0.75

- C) 0.5
- D) 0.8

Convert the fraction $\frac{5}{8}$ into a decimal.

Hint: Perform the division to find the decimal equivalent.

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Which of the following fractions will result in a repeating decimal?

Hint: Consider the prime factors of the denominators.

- A) $\frac{1}{2}$
- B) $\frac{1}{6}$
- C) $\frac{1}{5}$
- D) $\frac{1}{9}$

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Apply the division method to convert $\frac{7}{10}$ into a decimal and explain each step.

Hint: Break down the division process.

Apply the division method to convert $\frac{7}{10}$ into a decimal and explain each step.

Hint: Detail the division process and the result.

Apply the division method to convert $\frac{7}{10}$ into a decimal and explain each step.

Hint: Think about the division process and the result.

Part 3: Analysis, Evaluation, and Creation

Analyze the fraction $\frac{4}{9}$. What type of decimal does it convert to?

Hint: Consider the characteristics of the decimal.

- A) Terminating
- B) Repeating
- C) Whole number
- D) Improper fraction

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When converting fractions to decimals, which factors affect whether the decimal is repeating or terminating?

Hint: Think about the properties of the denominator.

- A) The numerator
- B) The denominator
- C) The presence of prime factors 2 or 5 in the denominator
- D) The size of the fraction

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Analyze the fraction $11/12$ and determine if it results in a repeating or terminating decimal. Explain your reasoning.

Hint: Consider the factors of the denominator.

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Hint: Consider the prime factors of the denominator.

Evaluate the statement: "All fractions with a denominator of 10 convert to terminating decimals."

Hint: Think about the nature of the denominator.

- A) True
- B) False
- C) N/A
- D) N/A

Evaluate which of the following statements are true about converting fractions to decimals.

Hint: Consider the properties of fractions and their conversions.

- A) Fractions with denominators that are powers of 2 or 5 always convert to terminating decimals.
- B) All fractions convert to repeating decimals.
- C) Simplifying a fraction can change its decimal form.
- D) Fractions with prime denominators other than 2 or 5 result in repeating decimals.

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Create a real-world problem that involves converting a fraction to a decimal, and solve it.

Hint: Think about practical applications of fractions.

Create a real-world problem that involves converting a fraction to a decimal, and solve it.

Hint: Think about everyday situations involving fractions.

Create a real-world problem that involves converting a fraction to a decimal, and solve it.

Hint: Think about practical applications of fractions.