

# Fraction to Decimal Conversion Review

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## Understanding the Connection Between Fractions and Decimals

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Answer the following questions based on what you learned about converting fractions to decimals.

1. What steps do we follow to convert a fraction to a decimal?

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2. What might be a reason to convert fractions to decimals?

- A. To make them easier to understand
- B. To find a common denominator
- C. To add them

3. All fractions can be converted to decimals.

True       False

4. A fraction that creates a decimal that goes on forever without repeating is called a \_\_\_\_.

5. Can you explain why some fractions create repeating decimals?

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6. What is the decimal equivalent of  $\frac{1}{2}$ ?

- A. 0.2
- B. 0.5
- C. 0.25

7. Using a calculator is not allowed when converting fractions to decimals.

True       False

8. To convert  $\frac{3}{4}$  to a decimal, you would divide \_\_\_\_ by \_\_\_\_.

9. Why is precision important in mathematical calculations, such as converting fractions to decimals?

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10. What type of decimal does  $\frac{1}{6}$  produce?

- A. Terminating decimal
- B. Repeating decimal
- C. Whole number

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Answer Key

1. To convert a fraction to a decimal, we divide the numerator by the denominator. This gives us a decimal result. 2. To make them easier to understand 3. True 4. non-terminating 5. Some fractions create repeating decimals because their division results in a pattern that keeps repeating, such as  $\frac{1}{3}$  which equals 0.333... 6. 0.5 7. False 8. 3, 4 9. Precision is important because it ensures our results are accurate, which is necessary for solving problems correctly. 10. Repeating decimal