

Fraction and Decimal Conversion

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1. Understanding Fractions and Decimals

- Fractions represent parts of a whole, while decimals represent a part of a whole number.
- Fractions have a numerator (top number) and a denominator (bottom number), while decimals are based on powers of 10.

2. Converting Fractions to Decimals

- To convert a fraction to a decimal, divide the numerator by the denominator. Example:
 $3/4 = 3 \div 4 = 0.75$

3. Converting Decimals to Fractions

- To convert a decimal to a fraction, identify the place value of the decimal and simplify. Example: $0.6 = 6/10 = 3/5$ (simplified)

4. Common Fraction to Decimal Conversions

- $1/2 = 0.5$
- $1/4 = 0.25$
- $3/4 = 0.75$
- $1/5 = 0.2$
- $1/10 = 0.1$

5. Common Decimal to Fraction Conversions

- $0.5 = 1/2$
- $0.25 = 1/4$
- $0.75 = 3/4$
- $0.2 = 1/5$
- $0.1 = 1/10$

6. Practice and Tips

- Practice converting fractions to decimals and vice versa to improve proficiency.

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- Remember that decimals can be converted to fractions by placing the decimal value over the appropriate power of 10.
- Simplify fractions to their lowest terms for clarity and simplicity.