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What is Decimals

Decimals: The Bridge Between Whole Numbers and Fractions!

DEFINITION

> Decimals are numbers that represent parts of a whole using a dot. They help us express values smaller than one.

KEY CONCEPTS

Decimal Point

The dot in a decimal number that separates whole numbers from fractional parts.

Tenths, Hundredths, Thousandths

These are places in a decimal; tenths are first, hundredths second, and thousandths third.

Converting Fractions

Decimals can be created from fractions by dividing the numerator by the denominator.

Rounding Decimals

Rounding makes decimals simpler by reducing the number of digits while keeping the value close.

Comparing Decimals

To compare decimals, look at the digits from left to right, starting with the largest place value.

EXAMPLES

→ 0.5 is the same as 1/2.

→ 3.14 represents three whole units and fourteen hundredths.

→ 0.75 equals 75 hundredths.

MEMORY TIPS

★ Remember 'Decimal' has a 'D' for 'Dot'!

★ Think of tenths as '10' and hundredths as '100' to remember place values.

★ Use 'Round it up, round it down' to recall how to round decimals.

COMMON MISTAKES

✗ Confusing the decimal point with a comma.

✗ Forgetting to add zeros when comparing decimals.

✗ Misplacing the decimal point when writing numbers.

QUICK RECAP

Decimals are important for expressing parts of a whole. Remember the place values and how to convert from fractions. Practice rounding and comparing to master decimals!