

Decimals Lesson 3

Understanding Decimals and Fractions

What Does "Equivalent" Mean?

Equivalent means equal in value, even if the numbers look different.

Examples:

$$0.5 = 1/2$$

$$0.25 = 1/4$$

$$0.75 = 3/4$$

Convert Fractions to Decimals

To convert, divide the top number by the bottom (numerator \div denominator).

Examples:

$$1 \div 4 = 0.25 \rightarrow 1/4 = 0.25$$

$$3 \div 4 = 0.75 \rightarrow 3/4 = 0.75$$

Tip: Use a calculator or long division.

Convert Decimals to Fractions

Step 1: Read the decimal aloud (e.g., 0.6 = "six tenths")

Step 2: Write it as a fraction $\rightarrow 6/10$

Step 3: Simplify the fraction $\rightarrow 6/10 = 3/5$

Visual Number Line

Imagine a number line from 0 to 1:

$0.25 \rightarrow 1/4$

$0.5 \rightarrow 1/2$

$0.75 \rightarrow 3/4$

Visualize how fractions and decimals match up!

Visual Number Line

Imagine a number line from 0 to 1:

$0.25 \rightarrow 1/4$

$0.5 \rightarrow 1/2$

$0.75 \rightarrow 3/4$

Visualize how fractions and decimals match up!