

# What are Decimals



The word 'decimal' originates from a Latin word 'Decam' which means 'tenth'.

Decimal number system was first used in India and was taken up by the Arabs and was later introduced in Europe.



## Parts of Decimal Number

A decimal number has two parts:

- Whole number part
- Decimal part

Both the whole number part and the decimal part are separated from each other by a point called the **decimal point**.

**For example:** In 78.5 78 is a whole part and 5 is a decimal part separated by a decimal (.).



## Decimal Place Value Chart

As we have a place value chart for whole numbers similarly, we have a place value chart for decimals.

DECIMAL PLACE VALUE CHART									
Whole Number Part					Decimal point ↓	Decimal Part			
Ten Thousands	One Thousands	Hundreds	Tens	Ones		Tenths	Hundredths	One-Thousandths	Ten-Thousandths
10000	1000	100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	$\frac{1}{10000}$

## What are Decimals



### One-Tenth

The place value of a digit becomes one-tenth ( $1/10$ ) as we move from left to right of a place value chart.

We, also write  $1/10$  as 0.1.



### One-Hundredth

The place value of a digit becomes one-hundredth ( $1/100$ ) as we move from left to right of a place value chart.

We, also write  $1/100$  as 0.01



### One-Thousandth

The place value of a digit becomes one-thousandth ( $1/1000$ ) as we move from left to right of a place value chart.

We, also write  $1/1000$  as 0.001



### How to read a decimal number:

**Example:** Read the following decimal fractions and write their number names:

(a) **761.325** = Seven hundred sixty one point three two five.

(c) **43.98** = Forty three point nine eighth.

(d) **1239.094** = One thousand two hundred thirty nine point nine four.