



## Introduction to Decimals

### Understanding Introduction to Fraction

- A decimal is a number that shows a part of a whole.
- It uses a dot (.) called a decimal point to separate the whole number from the fractional part.
- Decimal numbers are based on 10s and come from dividing a whole into 10 or 100 equal parts.
- The digits after the decimal point show tenths, hundredths, etc.
- **Example:** In 3.6 → 3 is the whole part, 6 is the tenth part.

### Key Points about Decimals

- Tenths place is the first digit after the decimal point
- Hundredths place is the second digit after the decimal point
- Decimals are used in money, weight, length, and measurements
- $\frac{1}{10} = 0.1$ ,  $\frac{2}{10} = 0.2$ ,  $\frac{1}{100} = 0.01$

### Mixed Examples with Solutions

**Example:** Write  $\frac{2}{10}$  as a decimal

**Solution:**  $\frac{2}{10} = 0.2$

**Example:** What is the place value of 7 in 3.74?

**Solution:** 7 is in the tenths place → value =  $\frac{7}{10} = 0.7$

**Example:** Convert  $\frac{1}{100}$  into a decimal

**Solution:**  $1 \div 100 = 0.01$

**Example:** Write the decimal form of "4 wholes and 5 tenths"

**Solution:**  $4 + 0.5 = 4.5$

**Example:** Write the number name for 6.23

**Solution:** Six and twenty-three hundredths



## Summary Points

- A decimal shows a whole and a part together using a decimal point.
  - Tenths and hundredths are commonly used in daily life.
  - We can convert fractions like  $\frac{1}{10}$  and  $\frac{1}{100}$  into decimals.
  - Decimal numbers help in measuring and comparing small quantities.
  - Understanding decimals is useful in money, weight, and length problems.
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