

Converting Fractions to Decimal Fractions - Part 2

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In the previous segment, we learnt how to **convert a fraction into a decimal fraction**. In this segment, we will learn how to convert fractions that have multiples of 10 as denominators, into decimal fractions.

How to convert fractions with 10 or multiples of 10 as denominators, into decimal form?

If the denominator of the given fraction is 10 or its multiples, place the decimal point in the numerator, starting from the right, moving as many places to the left as the number of zeroes in the denominator.

For example,

(i) Convert $\frac{437}{10}$ to a decimal fraction.

There is only one zero in the denominator. So in the numerator, place the decimal point moving one place from right to left, That is, 43.7.

$$\text{So, } \frac{437}{10} = 43.7$$

(ii) Convert $\frac{301}{100}$ to a decimal fraction

There are 2 zeros in the denominator. So in the numerator, place the decimal point moving 2 places from right to left, That is, 3.01.

$$\text{So, } \frac{301}{100} = 3.01$$

(iii) Convert $\frac{23}{1000}$ to a decimal fraction

In this fraction, there are 3 zeroes in the denominator, but only two digits in the numerator. In such a case, add a zero before the digits in the numerator, so that the number of decimal places and the number of zeros in the denominator, both are same.

$$\text{So, } \frac{23}{1000} = 0.023.$$

Summary

What's next?

In the next segment of Class 10 Maths, we will learn how to **convert mixed fractions into their decimal forms.**

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