

Know the conversation of .875 as a fraction

The decimal number . 875 can be expressed as a fraction. A fraction in mathematics is a number that represents a portion of a whole, with the denominator serving as the whole and the numerator as the portion. Depending on the number of decimal places, we can convert a decimal number to a fraction by writing it as a fraction with a denominator of 10, 100, 1000, or any power of 10. In this article we will explain the conversion of [.875 as a fraction](#) and explore more about fraction and decimal.

What is a fraction ?

A fraction is a mathematical symbol that represents a portion of a whole. It has two parts, the numerator and the denominator, where the numerator represents the part and the denominator represents the total number of equal parts the whole is divided into. They are used in many different fields of mathematics, such as geometry, algebra, and mathematics. Before getting to the conversion of **.875 as a fraction**, let's first understand what fraction is in detail.

Fractions are used in mathematics to carry out operations including addition, subtraction, multiplication, and division. For instance, to combine two fractions, you must first identify a common denominator, which is the least common multiple of the two fractions' denominators. The result can then be written as a fraction with the common denominator as the denominator by adding the numerators of the two fractions.

In algebra, fractions can be used to represent variables and to solve equations. For example, if you have an equation such as $x/2 = 1$, you can solve for x by multiplying both sides of the equation by 2, which gives you $x = 2$. This is important in order to convert **.875 as a fraction**.

In geometry, fractions are used to represent lengths, areas, and volumes of objects. For example, if you have a line segment that is divided into 8 equal parts, each part can be represented by a fraction of the length of the line segment.

In general, fractions can be used to represent parts of a whole in a precise and meaningful way. Keep reading to know more about **.875 as a fraction** and what is decimal.

What is a decimal?

When a number is expressed as a fraction of powers of 10, it is called a decimal. The place value of each number rises by a factor of ten as you move to the right, with the digits to the right of the decimal point each representing a fraction of a power of ten.

Decimals are a convenient way to represent numbers that are not whole numbers and are commonly used in many areas of mathematics, including arithmetic, algebra, and finance.

They are also widely used in everyday life, such as in measurements, prices, and financial calculations. Read below to check out the conversion of **.875 as a fraction**.

How to convert .875 as a fraction?

In general, to convert **.875 as a fraction**, we follow these steps:

- Write the decimal as a fraction with a denominator of a power of 10 that has the same number of zeros as there are decimal places in the decimal.
- Simplify the fraction by dividing both the numerator and denominator by their greatest common factor.

In the case of **.875 as a fraction**, we have three decimal places, so we write the fraction with a denominator of 1000. The numerator is then simply the decimal multiplied by the denominator, giving us $875/1000$. To simplify the fraction, we divide both the numerator and denominator by their greatest common factor of 125, which gives us $7/8$.