

## What are Real Numbers?

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In this segment let us learn about Real Numbers.

### What are Real Numbers?

Any number that can be plotted on a number line is called a Real Number.

For example,

$$-2, 0.05, \sqrt{2} \approx 1.414, \pi \approx 3.14159.$$

### What are the Different kinds of numbers?

Sr. No.	Numbers	Definition	Example	Type of Number
1.	Terminating Decimals	These have a finite number of digits after the decimal point.	0.375	Rational Number
2.	Non-Terminating Recurring Decimals	It's called recurring since the same number reoccurs and non-terminating since it reoccurs infinitely.	0.666666.....	Rational Number
3.	Non-Terminating Non-Recurring Decimals	A non-terminating, non-recurring decimal is a decimal number that continues endlessly, with no group of digits repeating.	$\sqrt{2} = 1.414$	Irrational Number

Rational numbers and irrational numbers together form **Real numbers**.

<b>Real Number</b>	<ul style="list-style-type: none"><li>• Any number that can be plotted on a number line is called a Real Number.</li><li>• Rational Numbers and Irrational Numbers together form Real Numbers.</li></ul>
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### What's next?

In the next segment of Class 10 Maths, we will look at different categories of numbers that come under **Real Numbers**.

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