


# rational and irrational numbers

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## Rational and Irrational Numbers

### Rational Numbers and Irrational Numbers



**Vedantu**  
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**Rational and Irrational Numbers – Summary Notes**

**INTRODUCTION**

The complete number system is divided into two types of numbers:  
1. Imaginary numbers      2. Real Numbers

**For example:**

1. If  $x = 4$ ,  $\sqrt{-x}$  i.e.,  $\sqrt{-4}$  is an imaginary number and  $\sqrt{x} = \sqrt{4} = 2$  is a real number.  
2.  $\sqrt{-5}$  is imaginary but  $\sqrt{5}$  is real and so on.

Thus, square root of every negative number is an imaginary number and if the number is not imaginary, it is a real number.  
In this chapter, we confine our studies only upto real numbers.

Starting from real numbers, the complete number system is as shown below:

Real Numbers (R)

↓

<p>Rational Numbers (Q)</p> <p>←-----→</p> <p>Irrational Numbers (<math>\bar{Q}</math>)</p> <p>{-8, 0, 6, <math>\frac{5}{8}</math>, <math>\frac{2}{9}</math>, etc.}</p> <p>{<math>\sqrt{5}</math>, <math>\sqrt{3}</math>, <math>-\sqrt{8}</math>, <math>3\sqrt{2}</math>, <math>2-\sqrt{7}</math>, etc.}</p>	<p>Non-Integral Rational</p> <p>{ 5 8 -3 }</p>
<p>Integers (I or Z)</p> <p>←-----→</p> <p>{... -2, -1, 0, 1, 2, ...}</p>	

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## Practise number 2

**Pre-Algebra**  
**Unit 2**

**Rational & Irrational Numbers**

**Mr. Menges**

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## Practise

**Classify numbers: rational & irrational | Algebra (practice) | Khan Academy** ing number rational or irrational? 392

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