

Irrational Numbers

An **Irrational Number** is a real number that **cannot** be written as a simple fraction.

Irrational means **not Rational**

Examples:

$$1.5 = \frac{3}{2} \begin{array}{l} \text{Ratio} \\ \text{Rational} \end{array}$$

$$\pi = 3.14159\dots = \frac{?}{?} \text{ (No Ratio)}$$

Irrational

Rational vs Irrational

So you can tell if it is Rational or Irrational by trying to write the number as a simple fraction.

Example: 9.5 can be written as a simple fraction like this:

$$9.5 = \frac{19}{2}$$

So it is a **rational number** (and so is **not irrational**)