

What Is A Rational Number In Math Terms

Unveiling the Enigma of Rational Numbers: A Deep Dive into Mathematical Fundamentals Mathematics, the language of the universe, boasts a diverse vocabulary. Among its fundamental building blocks are rational numbers, concepts that underpin countless calculations, measurements, and applications across various scientific and practical fields. This comprehensive exploration delves into the essence of rational numbers, their properties, and their significance in the wider mathematical landscape.

Understanding Rational Numbers: A Foundation in Mathematics

A rational number, in the most basic mathematical terms, is any number that can be expressed as a fraction p/q , where both p and q are integers, and q is not equal to zero. This seemingly simple definition unlocks a vast realm of numerical possibilities. The crucial aspect lies in the "fractional" representation, highlighting the inherent relationship between integers and the concept of division. This fundamental connection underscores the importance of rational numbers in bridging the gap between whole numbers and decimals.

The Integral Role of Integers

Integers, encompassing positive, negative, and zero, form the bedrock upon which rational numbers are built. They are the building blocks for the numerators and denominators of these fractions. The inclusion of zero is crucial; it allows for the representation of fractions where the numerator is zero. Consider the fractions: $0/2$, $0/100$, and $0/-5$. They all represent the integer zero.

Integer	Rational Number Representation
2	$2/1$
-5	$-5/1$
0	$0/1$
3	$3/1$

Decimals, Fractions, and the Rational Connection

Rational numbers can also be expressed as terminating or repeating decimals. The process of converting a fraction to a decimal involves dividing the numerator by the denominator. This conversion showcases the inherent connection between fractions and decimals, demonstrating the flexibility and versatility of rational numbers. Examples of terminating decimals include 0.5 ($1/2$), 0.25 ($1/4$), and 0.75 ($3/4$). Repeating decimals, such as $0.333...$ ($1/3$) or $0.666...$ ($2/3$), also fall under the umbrella of rational numbers.

Fraction	Decimal Representation
$1/2$	0.5
$1/3$	$0.333...$
$2/3$	$0.666...$
$1/4$	0.25

Unique Advantages of Rational Numbers (or Related Concepts)

While rational numbers themselves don't possess unique advantages in isolation, the underlying principles and applications they embody demonstrate significant strengths. • **Precise Representation:** Rational numbers offer precise representations of quantities that can be divided into equal parts. This precision is critical in various disciplines. • **Real-World Applications:** The ability to represent parts of a whole makes rational numbers integral to real-world scenarios, from dividing a cake to measuring ingredients in cooking. • **Foundation for Further Concepts:** Rational numbers serve as the foundational stepping stone for more complex mathematical concepts like irrational numbers, real numbers, and complex numbers.

Expanding Beyond Rational Numbers

Irrational Numbers: A Contrast in Nature

Irrational numbers, by definition, cannot be expressed as a fraction of two integers. Examples include π (pi) and the square root of 2. This fundamental difference in representation distinguishes them from rational numbers, highlighting the broader spectrum of numerical possibilities within the realm of mathematics.

Real Numbers: The Comprehensive Set

The collection of all rational and irrational numbers forms the set of real numbers. This larger set encompasses a wider range of numerical values, providing a more comprehensive framework for mathematical operations and applications.

Applications in Science and Engineering

• **Engineering Design:** Calculating precise measurements, like material ratios or structural proportions, relies on the precise representation afforded by rational numbers. • **Scientific Simulations:** Models used in science often utilize rational numbers to simulate and predict real-world phenomena. • **Financial Modeling:** The precision of rational numbers finds application in calculating interest rates, investment returns, and currency conversions.

Key Takeaways and Reflections

Rational numbers, seemingly simple in their definition, are fundamental to understanding mathematics. Their ability to express quantities as fractions, and their representation as terminating or repeating decimals, underscores their importance in diverse fields. They establish a crucial link between abstract mathematical concepts and

practical applications, making them an essential cornerstone of the mathematical language. The exploration of related concepts, such as irrational and real numbers, provides a deeper understanding of the vast and interconnected nature of mathematics.

Frequently Asked Questions (FAQs)

1. **Are all integers rational numbers?** Yes, all integers can be expressed as a fraction with a denominator of 1, satisfying the definition of a rational number. 2. **Can all decimals be rational numbers?** No, not all decimals are rational. Non-repeating, non-terminating decimals represent irrational numbers. 3. Why are rational numbers important in algebra? They are fundamental in algebraic operations, enabling accurate solutions and manipulating equations effectively. 4. How are rational numbers used in everyday life? Cooking, measuring, and calculating proportions frequently involve rational numbers. 5. What is the relationship between rational and irrational numbers? They together form the set of real numbers, encompassing all possible points on a number line. This comprehensive exploration of rational numbers offers a glimpse into the fundamental building blocks of mathematics and its profound influence on various scientific and practical applications. The concepts presented form a solid foundation for further exploration of more advanced mathematical concepts.

What is a Rational Number in Math Terms?

Ever found yourself staring at a math problem and wondering, "What exactly *is* a rational number?" You're not alone! This fundamental concept in mathematics can sometimes feel a little elusive, but once you grasp it, a whole new world of numbers opens up. Think of it as the backbone of so much of what we do in arithmetic and beyond. In simple terms, a rational number is any number that can be expressed as a simple fraction. But let's dive a bit deeper, shall we? This isn't just about fractions; it's about a whole classification of numbers that includes integers, terminating decimals, and repeating decimals. It's a pretty neat category to belong to!

Breaking Down the Definition: The Fraction Factor

At its core, the definition of a rational number is quite straightforward: **A rational number is a number that can be written in the form $\frac{p}{q}$, where p and q are integers, and q is not equal to zero.** Let's unpack this. *** Integers:** These are your whole numbers, both positive and negative, including zero. So, numbers like -3, 0, 5, 100 are all integers. *** The Fraction Form $\frac{p}{q}$:** *** This is the key. If you can represent a number as the division of one integer by another, you've got yourself a rational number.** *** q cannot be zero:** *** This is a crucial rule in mathematics. Division by zero is undefined, so the denominator of our fraction must always be a non-zero integer. So, any number that fits this**

$\frac{p}{q}$ mold, where p and q are integers and $q \neq 0$, is officially a rational number.

Common Examples and Why They Qualify

You probably encounter rational numbers every single day without even realizing it! Let's look at some common examples and see how they fit our definition:

Integers are Rational!

"Wait a minute," you might think, "integers are just whole numbers. How can they be fractions?" Ah, but that's the beauty of it! Every integer can be written as a fraction with a denominator of 1. * The integer 5 can be written as $\frac{5}{1}$. Here, $p=5$ and $q=1$. Both are integers, and q is not zero. So, 5 is a rational number. * The integer -3 can be written as $\frac{-3}{1}$. Again, $p=-3$ and $q=1$ are integers, and $q \neq 0$. Therefore, -3 is rational. * Even 0 is rational! It can be written as $\frac{0}{1}$ (or $\frac{0}{2}$, $\frac{0}{5}$, etc.). So, all integers are a subset of rational numbers. This is a very important point to remember!

Terminating Decimals: The Neat and Tidy Rationals

Terminating decimals are those that end after a finite number of digits. Think of them as the well-behaved members of the decimal family. And guess what? They are all rational! * Consider the decimal 0.5. We know this is equivalent to the fraction $\frac{1}{2}$. Here, $p=1$ and $q=2$ are integers, and $q \neq 0$. So, 0.5 is rational. * How about 0.75? This is the same as $\frac{75}{100}$, which can be simplified to $\frac{3}{4}$. Again, $p=3$ and $q=4$ are integers, and $q \neq 0$. Thus, 0.75 is rational. * Even a decimal like 2.125? We can write this as $\frac{2125}{1000}$, which simplifies to $\frac{17}{8}$. Both $p=17$ and $q=8$ are integers, and $q \neq 0$. So, 2.125 is rational. The trick with terminating decimals is to write them as a fraction with a denominator that's a power of 10 (like 10, 100, 1000, etc.), and then simplify.

Repeating Decimals: The Patterned Rationals

This is where things get a little more interesting. Repeating decimals are those that have a digit or a sequence of digits that repeat infinitely. For example, 0.333... (where the 3 repeats forever) or 0.121212... (where '12' repeats). These might seem a bit wild with their infinite nature, but they are, in fact, rational numbers! Let's see how we can convert a repeating decimal into a fraction: * **Example: 0.333...** Let $x = 0.333...$ Multiply by 10: $10x = 3.333...$ Subtract the original equation from the multiplied one: $10x - x = 3.333... - 0.333...$ $9x = 3$ $x = \frac{3}{9}$ Simplifying, $x = \frac{1}{3}$. So, 0.333... is rational because it can be written as $\frac{1}{3}$. * **Example: 0.121212...** Let $y = 0.121212...$ Since the repeating block '12' has two digits, multiply by 100: $100y = 12.121212...$ Subtract the original equation: $100y - y =$

$= 12.121212... - 0.121212... = 12$
 $y = \frac{12}{99}$
Simplifying, $y = \frac{4}{33}$. Therefore, $0.121212...$ is rational. This process of algebraic manipulation is how we demonstrate that all repeating decimals can be expressed as a fraction of two integers. This property is what makes them rational numbers.

The Counterparts: Irrational Numbers

To truly understand what a rational number is, it's helpful to know what it *isn't*. The opposite of a rational number is an **irrational number**. An irrational number is any real number that *cannot* be expressed as a simple fraction $\frac{p}{q}$, where p and q are integers and $q \neq 0$. What does this mean for their decimal representation? **Non-terminating and Non-repeating Decimals:** Irrational numbers have decimal expansions that go on forever without any repeating pattern. Famous examples of irrational numbers include: π (pi): Approximately 3.1415926535..., its digits continue infinitely without a repeating sequence. $\sqrt{2}$ (the square root of 2): Approximately 1.4142135623..., its decimal representation is also infinitely long and non-repeating. e (Euler's number): Approximately 2.7182818284..., another constant with an infinite, non-repeating decimal expansion. These numbers are "irrational" in the sense that they cannot be perfectly represented as a ratio of two integers.

The Set of Rational Numbers (Q)

In mathematics, we often use symbols to represent sets of numbers. The set of all rational numbers is denoted by the letter **Q**, which stands for "quotient." So, when you see $x \in \mathbb{Q}$, it means "x is an element of the set of rational numbers." The set $\mathbb{Q}$ can be formally written as: $\mathbb{Q} = \left\{ \frac{p}{q} \mid p \in \mathbb{Z}, q \in \mathbb{Z}, q \neq 0 \right\}$ This is a concise mathematical way of saying exactly what we've been discussing: the set of all numbers that can be expressed as a fraction of two integers, where the denominator is not zero.

Why is Understanding Rational Numbers Important?

Rational numbers are not just a theoretical concept; they are fundamental to many areas of mathematics and real-world applications. **Arithmetic and Operations:** All the basic arithmetic operations (addition, subtraction, multiplication, division) performed on rational numbers result in another rational number. This closure property makes them incredibly useful for calculations. **Fractions in Real Life:** We encounter fractions representing parts of a whole everywhere – from recipes (half a cup of flour) and measurements (3.5 inches) to financial transactions (paying 25 cents, which is $\frac{1}{4}$ of a dollar). **Algebra:** When solving equations, particularly linear equations, the solutions often turn out to be rational numbers. **Number Theory:** Rational numbers play a crucial role in number theory, the study of integers and their properties. **Foundation for Other Number Systems:** Understanding rational

numbers is a stepping stone to comprehending more complex number systems, such as real numbers (which include both rational and irrational numbers) and complex numbers.

In Conclusion: The Versatile Rational Number

So, what is a rational number in math terms? It's a number that can be neatly packaged as a fraction of two integers, with the bottom number not being zero. This broad category encompasses all your whole numbers (integers), the decimals that neatly terminate, and even those decimals that go on forever but in a predictable, repeating pattern. They are the workhorses of the number world, essential for everything from simple counting to complex problem-solving. The next time you see a fraction, a whole number, or a decimal that ends or repeats, you can confidently say: "Aha! That's a rational number!" And with that understanding, you've unlocked another fundamental piece of the mathematical puzzle.

A rational number, in mathematical terms, is a fundamental concept rooted in the structure of the rational number system—a cornerstone of arithmetic and algebra. Defined as any number that can be expressed as the quotient of two integers, where the numerator and denominator are whole numbers and the denominator is not zero, rational numbers represent a precise and comprehensible subset of real numbers. This simple definition belies their profound importance in mathematics and daily life, offering a bridge between whole numbers, fractions, and decimals. At its core, a rational number takes the form a/b , where 'a' is any integer—positive, negative, or zero—and 'b' is a non-zero integer. For instance, the number $3/4$, -7 , or even 0.5 —since it can be written as $1/2$ —are all rational. The restriction that the denominator cannot be zero ensures logical consistency, as division by zero is undefined. Yet within this constraint, rational numbers encompass an infinite, dense set, densely populating the number line between any two real numbers. What makes rational numbers particularly valuable is their role as the first step beyond whole numbers in understanding numerical relationships. They allow for exact representation of parts and proportions—essential in measurement, finance, and science. For example, calculating a discount as a fraction of cost, dividing a sum among people, or expressing a speed as distance over time all rely on rational numbers. Their ability to be simplified into lowest terms also supports clarity and efficiency in computation and comparison. Beyond basic arithmetic, rational numbers form the foundation for more advanced mathematical concepts. They are integral to algebra, where solving equations often leads to rational solutions, and in calculus, where limits and approximations frequently involve rational expressions. In applied fields like engineering and computer science, rational numbers enable precise modeling and error minimization, especially in systems requiring exact representations. One of the key benefits of rational numbers lies in their universality and accessibility. Unlike irrational numbers, which have non-repeating, non-terminating decimal expansions, rational

numbers offer predictable decimal behavior—either terminating or repeating—making them easier to work with computationally and theoretically. This predictability supports accurate calculations and reliable algorithms, particularly in digital systems where infinite precision is unattainable. Looking ahead, the relevance of rational numbers remains steadfast in both classical and emerging mathematical domains. As computational methods evolve, including machine learning and symbolic algebra, rational representations continue to provide efficiency and clarity. Furthermore, in education, rational numbers serve as a critical stepping stone, helping learners grasp the continuum of real numbers while building computational fluency. Their enduring presence underscores their role not just as abstract entities, but as indispensable tools shaping how we understand and manipulate the world through mathematics. In sum, rational numbers—defined as ratios of integers with a non-zero denominator—embody precision, accessibility, and utility. They are more than just fractions; they are foundational building blocks that connect numerical theory to practical application, ensuring clarity and control across countless mathematical and real-world contexts.

What is a Rational Number in Math Terms? Unveiling the Essence of Fractions and Beyond

In the vast and elegant landscape of mathematics, numbers form the fundamental building blocks. While we often take concepts like integers and decimals for granted, understanding their precise definitions is crucial for deeper mathematical comprehension. One such fundamental concept is the **rational number**. Far from being an obscure academic term, rational numbers permeate our everyday lives, from calculating change at the grocery store to understanding scientific measurements. This comprehensive guide will delve into what a rational number is in mathematical terms, exploring its definition, characteristics, examples, and its significant role within the broader number system.

At its core, a rational number is a number that can be expressed as a **fraction**, specifically a ratio of two integers. This simple yet powerful definition opens up a world of numerical possibilities that extend beyond whole numbers. Understanding rational numbers is a gateway to grasping other important mathematical concepts like irrational numbers, real numbers, and even complex numbers.

The Formal Definition: A Ratio of Integers

The most precise definition of a rational number is as follows: A number 'r' is a rational number if and only if it can be written in the form **p/q** , where 'p' and 'q' are integers, and **$q \neq 0$** . Let's break down this definition:

1. **Integers:** These are whole numbers, both positive and negative, including zero.

Examples include ..., -3, -2, -1, 0, 1, 2, 3, ...

2. **p (Numerator):** This represents the integer in the upper part of the fraction.
3. **q (Denominator):** This represents the integer in the lower part of the fraction.
4. **$q \neq 0$ (Non-zero Denominator):** This is a critical condition. Division by zero is undefined in mathematics. If 'q' were zero, the fraction p/q would not represent a valid number.

Therefore, any number that can be represented as a fraction with an integer numerator and a non-zero integer denominator is, by definition, a rational number. This includes numbers that might not immediately appear as fractions.

Examples of Rational Numbers: Beyond Simple Fractions

The definition might seem straightforward, but the scope of rational numbers is broader than many realize. Let's explore various examples:

Whole Numbers and Integers: The Foundation

Yes, all integers are rational numbers! This is because any integer 'n' can be written as $n/1$. For example:

1. 5 can be written as $5/1$.
2. -3 can be written as $-3/1$.
3. 0 can be written as $0/1$.

Since the numerator (the integer) and the denominator (1) are both integers, and the denominator is non-zero, all integers fit the definition of a rational number.

Fractions: The Obvious Candidates

This is where the concept often originates. Any number expressed as a simple fraction where both the numerator and denominator are integers (and the denominator is not zero) is a rational number. Examples include:

1. $1/2$
2. $3/4$
3. $-7/5$
4. $100/3$

The numerator and denominator can be positive or negative, and the fraction doesn't need to be in its simplest form (though it can be reduced to one).

Terminating Decimals: A Familiar Sight

Terminating decimals are decimals that end after a finite number of digits. These are always rational numbers. Why? Because any terminating decimal can be converted into

a fraction. For instance:

1. 0.5 can be written as $\frac{5}{10}$, which simplifies to $\frac{1}{2}$.
2. 0.75 can be written as $\frac{75}{100}$, which simplifies to $\frac{3}{4}$.
3. 1.25 can be written as $\frac{125}{100}$, which simplifies to $\frac{5}{4}$.

The process involves placing the decimal digits over a power of 10 corresponding to the number of decimal places.

Repeating Decimals: The Hidden Fractions

This is perhaps the most intriguing aspect of rational numbers: repeating decimals. Decimals that have a repeating pattern of digits are also rational numbers. While it might not be immediately obvious, these can be converted into fractions using algebraic methods. For example:

1. 0.333... (0. followed by an infinite repetition of 3) can be written as $\frac{1}{3}$.
2. 0.142857142857... (a repeating block of six digits) can be written as $\frac{1}{7}$.
3. 1.666... (1. followed by an infinite repetition of 6) can be written as $\frac{5}{3}$.

The conversion process for repeating decimals involves setting up an equation and manipulating it to eliminate the repeating part, ultimately yielding a fraction.

Key Characteristics of Rational Numbers

Beyond their definition and examples, rational numbers possess several important characteristics:

Density: Infinite Possibilities Between Any Two

The set of rational numbers is said to be **dense**. This means that between any two distinct rational numbers, there exists an infinite number of other rational numbers. For example, between $\frac{1}{2}$ (0.5) and $\frac{3}{4}$ (0.75), you can find $\frac{2}{3}$ (approximately 0.667), $\frac{5}{8}$ (0.625), and infinitely many others. This property is fundamental to understanding the structure of the number line.

Closure Properties: Predictable Operations

Rational numbers exhibit closure under several basic arithmetic operations:

1. **Addition:** The sum of two rational numbers is always a rational number.
2. **Subtraction:** The difference between two rational numbers is always a rational number.
3. **Multiplication:** The product of two rational numbers is always a rational number.
4. **Division (by a non-zero rational number):** The quotient of two rational numbers (where the divisor is not zero) is always a rational number.

This predictability makes rational numbers incredibly useful in calculations and problem-solving.

What is NOT a Rational Number? Introducing Irrational Numbers

To fully appreciate what a rational number is, it's essential to understand what it is not. Numbers that cannot be expressed as a simple fraction of two integers are called **irrational numbers**. Their decimal representations are non-terminating and non-repeating.

Famous examples of irrational numbers include:

1. **Pi (π):** Approximately 3.14159..., its decimal representation continues infinitely without repeating.
2. **The square root of 2 ($\sqrt{2}$):** Approximately 1.41421..., its decimal representation is also infinite and non-repeating.
3. **Euler's number (e):** Approximately 2.71828..., another fundamental mathematical constant with an irrational value.

The existence of irrational numbers highlights that the number line contains points that cannot be precisely represented by simple ratios, expanding our understanding of numerical continuity.

The Number System Hierarchy: Where Rational Numbers Fit In

Rational numbers occupy a significant position within the hierarchy of number systems:

1. **Natural Numbers (N):** {1, 2, 3, ...} (sometimes includes 0)
2. **Whole Numbers (W):** {0, 1, 2, 3, ...}
3. **Integers (Z):** {..., -2, -1, 0, 1, 2, ...} (all whole numbers and their negatives)
4. **Rational Numbers (Q):** All numbers that can be expressed as p/q , where p and q are integers and $q \neq 0$. This set includes all integers.
5. **Irrational Numbers (I):** Numbers that cannot be expressed as p/q .
6. **Real Numbers (R):** The set of all rational and irrational numbers combined. These are the numbers we typically use on a number line.
7. **Complex Numbers (C):** Numbers of the form $a + bi$, where ' a ' and ' b ' are real numbers, and ' i ' is the imaginary unit ($\sqrt{-1}$).

As you can see, rational numbers are a subset of real numbers, and they encompass integers and whole numbers. This hierarchical structure helps organize and understand the relationships between different types of numbers.

The Importance of Rational Numbers in Mathematics and Beyond

The concept of rational numbers is not merely an academic exercise; it has profound implications:

Foundation for Advanced Mathematics

Understanding rational numbers is a prerequisite for grasping more complex mathematical concepts. Calculus, algebra, number theory, and even abstract algebra rely on the properties and behaviors of rational numbers. The density of rational numbers, for example, is a crucial concept in understanding limits and continuity.

Practical Applications in Daily Life

We encounter rational numbers constantly:

1. **Fractions:** Recipes, measurements (e.g., $\frac{1}{2}$ cup of flour), dividing goods among people.
2. **Decimals:** Money (e.g., \$3.75), statistics, scientific data.
3. **Percentages:** Discounts (e.g., 20% off), interest rates (e.g., 5% annual interest).
4. **Ratios:** Proportions in art and design, scaling maps.

Essentially, any time we divide something into parts or express a relationship between quantities, we are implicitly or explicitly using rational numbers.

Problem-Solving and Logic

The ability to represent numbers as fractions and manipulate them is a key skill in problem-solving. Whether you're solving an algebra problem or a word problem involving quantities, a solid understanding of rational numbers is essential for logical deduction and accurate calculations.

Conclusion: The Ubiquitous Rational Number

In conclusion, a rational number in mathematical terms is any number that can be precisely expressed as a **ratio of two integers**, where the denominator is not zero. This definition encompasses whole numbers, integers, terminating decimals, and repeating decimals. They form a dense and predictable set within the real number system, exhibiting closure under fundamental arithmetic operations.

Far from being an abstract concept, rational numbers are the workhorses of mathematics, underpinning our understanding of measurement, proportion, and calculation. From the simplest fraction to the most complex equation, the essence of a rational number lies in its ability to be precisely quantified and understood as a part of a

whole, making it an indispensable tool in both theoretical exploration and practical application.

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As digital access becomes more common, digital literacy grows in importance. Learning how to evaluate sources, manage information, and use digital tools responsibly is now a fundamental skill. Engaging with **What Is A Rational Number In Math Terms** in digital format helps users develop these competencies naturally through regular use.

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Questions & Answers About what is a rational number in math terms

N o	Question	Answer
1	What's the simplest way to define a rational number in math?	Simply put, a rational number is any number that can be expressed as a fraction p/q , where 'p' is an integer and 'q' is a non-zero integer.
2	Are whole numbers like 5 rational? How so?	Yes, absolutely! Any whole number can be written as a fraction with a denominator of 1. So, 5 is rational because it can be written as $5/1$.

3	What about decimals? Which ones are rational?	Terminating decimals (like 0.75) and repeating decimals (like 0.333...) are rational. This is because they can always be converted into a fraction.
4	Are all fractions rational numbers?	By definition, yes! The very definition of a rational number is that it <i>can</i> be expressed as a fraction of two integers (with a non-zero denominator).
5	If 0.75 is rational, is 0.757575... also rational?	Yes! Both terminating (0.75) and repeating decimals (0.757575...) are rational numbers because they can be expressed as a fraction.
6	What's a real-world example of a rational number?	Think about sharing pizza. If you have 8 slices and eat 3, you've eaten $\frac{3}{8}$ of the pizza, which is a rational number.
7	Are irrational numbers the opposite of rational numbers? What's an example?	Yes, irrational numbers cannot be expressed as a simple fraction. Famous examples include pi (π) and the square root of 2 ($\sqrt{2}$).
8	Does a rational number have to be positive?	No, rational numbers can be positive, negative, or zero. For example, $-\frac{3}{4}$ and -7 are both rational numbers.
9	So, is the set of rational numbers 'complete' in some way?	While dense on the number line, the set of rational numbers isn't complete in the mathematical sense because there are gaps filled by irrational numbers. This means between any two rational numbers, you can always find another rational number, but also an irrational one.

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