

What Does Factor Mean In Math Terms

Unveiling the Secrets of Factors: A Mathematical Exploration The world around us is a tapestry woven with intricate mathematical patterns. From the elegant spirals of a nautilus shell to the precise calculations behind rocket launches, factors play a pivotal role in understanding and manipulating these patterns. But what exactly does "factor" mean in the mathematical realm? This comprehensive guide will unravel the mysteries of factors, exploring their significance, applications, and related concepts.

Understanding the Fundamental Concept of Factors

At its core, a factor is a number that divides another number exactly, leaving no remainder. Think of it as a building block, a component that, when multiplied together, creates a larger whole.

Defining Factors

A factor of a number n is a number that divides n completely, with no fractional part or remainder. For example, 2 is a factor of 6 because 6 divided by 2 equals 3 with no remainder. Conversely, 5 is *not* a factor of 6 because 6 divided by 5 equals 1 with a remainder of 1. Example: The factors of 12 are 1, 2, 3, 4, 6, and 12. These numbers, when multiplied together in various combinations, yield 12 (e.g., 1×12 , 2×6 , 3×4).

Prime Factorization: Breaking Numbers Down

A crucial aspect of factors is prime factorization, a process that breaks a composite number down into its prime factors. Prime numbers are whole numbers greater than 1 that are only divisible by 1 and themselves. **Example:** The prime factorization of 12 is $2 \times 2 \times 3$. We can see that 2 and 3 are prime numbers, and their product is 12. This decomposition reveals the fundamental building blocks of 12. **Table 1:**

Number	Prime Factorization
6	2×3
10	2×5
15	3×5
24	$2 \times 2 \times 2 \times 3$
30	$2 \times 3 \times 5$

Applications of Factors in Real-World Scenarios

Factors aren't confined to the abstract world of mathematics; they have practical implications in various fields.

Divisibility Rules: Streamlining Calculations

Divisibility rules provide a shortcut for determining whether a number is divisible by another without performing the actual division. These rules, derived from factor patterns, are invaluable in problem-solving. **Example:** A number is divisible by 3 if the sum of its digits is divisible by 3. Consider the number 21; $2 + 1 = 3$, so 21 is divisible by 3.

Fraction Simplification: Reducing Complexity

Factors are crucial for simplifying fractions. By dividing both the numerator and denominator by their common factors, we reduce the fraction to its simplest form.

Example: To simplify the fraction $6/12$, we identify the common factor of 6, dividing both the numerator and denominator by 6 to get $1/2$.

Arithmetic Problems: Solving Challenges Efficiently

In arithmetic, finding factors can lead to quicker solutions to complex problems. **Case Study:** A bakery wants to arrange 24 cookies evenly on trays.

Determining the factors of 24 (1, 2, 3, 4, 6, 8, 12, and 24) helps identify the possible numbers of trays and cookies per tray.

Related Concepts: Multiples, Common Factors, and Greatest Common Factors

Multiples: Extending the Concept

A multiple of a number is the product of that number and any whole number. **Example:** Multiples of 4 are 4, 8, 12, 16, and so on. They are essentially the results of multiplying 4 by whole numbers.

Common Factors and Greatest Common Factor (GCF): Finding the Largest Shared Factor

Common factors are factors shared by two or more

numbers. The greatest common factor (GCF) is the largest common factor among those numbers.

Example: The common factors of 12 and 18 are 1, 2, and 3. The GCF of 12 and 18 is 6.

Least Common Multiple (LCM): Finding the Smallest Common Multiple

The least common multiple (LCM) is the smallest multiple shared by two or more numbers. **Example:** The multiples of 4 are 4, 8, 12, 16, 20, ...; the multiples of 6 are 6, 12, 18, 24, 30, ...; The LCM of 4 and 6 is 12.

Advanced Applications of Factors

Cryptography: Securing Information

Prime factorization is fundamental in modern cryptography, underpinning algorithms for secure communication. The difficulty of factoring large numbers underlies many encryption methods.

Number Theory: Exploring Number Patterns

Number theory, a branch of pure mathematics,

extensively studies the properties of numbers, including factors and their distribution. Patterns in prime numbers, for example, are an ongoing area of investigation.

Coding and Programming: Implementing Algorithms

Factors are used in various programming tasks, including efficient algorithms and data structures.

Conclusion

Factors are fundamental building blocks in mathematics, enabling a deeper understanding of numbers and their relationships. From simple arithmetic to complex cryptographic applications, factors permeate various aspects of our lives. Their significance lies in providing tools for problem-solving, simplifying calculations, and unlocking patterns in the numerical world. Learning about factors empowers us to approach mathematical challenges with greater clarity and efficiency.

Advanced FAQs

- 1. How do you find the factors of a large number**

efficiently? Advanced algorithms, such as the Pollard rho algorithm or the general number field sieve, are used to find the prime factorization of large numbers. These algorithms are computationally intensive and are crucial in cryptography. 2. **What is the significance**

of prime numbers in factor analysis? Prime numbers are fundamental in factor analysis because they are the irreducible building blocks of composite numbers. Their properties and distributions are crucial for understanding the overall structure of numbers. 3.

How can factors be applied in the field of engineering?

Factors are essential in structural analysis, circuit design, and material science. Calculating stresses, optimizing load-bearing capacity, and ensuring proper functioning depend on factor analysis. 4. **What is the difference between factors and**

multiples? Factors divide a number evenly, whereas multiples are the results of multiplying a number by whole numbers. 5. **How can I use factor analysis in my daily life?** While not directly applied in everyday tasks, understanding the concepts of factors can improve your mathematical intuition and problem-solving skills in various areas, such as budgeting, recipes, or even planning schedules.

What Does Factor Mean in Math Terms? Unpacking the Building Blocks of Numbers

Ever stared at a math problem and seen numbers broken down into smaller pieces, like puzzle parts fitting together? That's the magic of factors! In the world of mathematics, a "factor" is a fundamental concept, a building block that helps us understand the structure and relationships between numbers. Think of them as the "ingredients" that multiply together to create another number. But what exactly does "factor" mean in math? It's a term that pops up in arithmetic, algebra, and even more advanced areas.

Understanding factors is crucial for everything from simplifying fractions to solving complex equations. So, let's dive deep into this essential mathematical idea, exploring its meaning, how to find factors, and why they're so important.

The Core Definition: What is a Factor?

At its heart, a factor is a number that divides evenly into another number without leaving a remainder. In simpler terms, if you can multiply two or more whole numbers together to get a specific number, then each

of those original numbers is a factor of the resulting number. Let's take a classic example: the number 12. $2 \times 6 = 12$ $3 \times 4 = 12$ $1 \times 12 = 12$ In this case, 1, 2, 3, 4, 6, and 12 are all **factors** of 12. They are the whole numbers that can be multiplied together to produce 12. It's important to note that we're typically talking about **whole numbers** (also known as integers) when we discuss factors in this context. You won't usually find fractional or decimal factors being referred to in the same way.

Prime Factors vs. All Factors: A Crucial Distinction

When people talk about factors, they sometimes mean all the numbers that divide evenly into another number. However, there's a more specific and incredibly powerful type of factor: the **prime factor**.

All Factors: The Complete Set of Divisors

When we list all the factors of a number, we're referring to the complete set of its divisors. For example, the factors of 18 are: $1 \times 18 = 18$ $2 \times 9 = 18$ $3 \times 6 = 18$ So, the factors of 18 are 1, 2, 3, 6, 9, and 18. This is the "all factors" list.

Prime Factors: The Fundamental Building Blocks

Prime factors, on the other hand, are the **prime numbers** that multiply together to make a given number. A prime number is a whole number greater than 1 that has only two divisors: 1 and itself. Think of 2, 3, 5, 7, 11, 13, and so on. To find the prime factors of a number, we break it down until all the numbers in the multiplication are prime. Let's go back to 12: * 12 can be broken down into 2×6 . * 2 is prime. * 6 is not prime; it can be broken down into 2×3 . * Both 2 and 3 are prime. So, the prime factors of 12 are 2, 2, and 3. If you multiply them together ($2 \times 2 \times 3$), you get 12. Why are prime factors so special? Because every composite number (a number that is not prime) has a unique set of prime factors. This is known as the **Fundamental Theorem of Arithmetic**. It's like a fingerprint for numbers!

How to Find Factors: Practical Methods

Finding factors is a fundamental skill. Here are a few ways to do it:

Method 1: Trial Division (for smaller numbers)

For smaller numbers, you can simply try dividing by whole numbers starting from 1 and going up. If a

number divides evenly, it's a factor. Let's find the factors of 24: * $24 \div 1 = 24$ (1 and 24 are factors) * $24 \div 2 = 12$ (2 and 12 are factors) * $24 \div 3 = 8$ (3 and 8 are factors) * $24 \div 4 = 6$ (4 and 6 are factors) * $24 \div 5 = 4.8$ (5 is not a factor) * $24 \div 6 = 4$ (we've already found 6 and 4) We can stop when the numbers we're dividing by start to repeat or exceed the square root of the original number. The factors of 24 are 1, 2, 3, 4, 6, 8, 12, and 24.

Method 2: Factor Pairs

As you trial divide, you'll notice that factors often come in pairs. When you find a number that divides evenly, the result of the division is its "partner" factor. For 24: * 1×24 * 2×12 * 3×8 * 4×6 This method is essentially the same as trial division but emphasizes finding these pairs.

Method 3: Prime Factorization (for finding prime factors)

This is the method we discussed earlier. You can use a factor tree to visually break down a number. To find the prime factors of 30: $30 \div 2 = 15$ $15 \div 3 = 5$ The prime factors are 2, 3, and 5. So, $2 \times 3 \times 5 = 30$.

Why are Factors Important? Their Role in Mathematics

Understanding factors isn't just an academic exercise; it has practical applications across various mathematical concepts:

1. Simplifying Fractions

This is perhaps the most common place you'll encounter factors as a student. To simplify a fraction, you need to find the **greatest common factor (GCF)** of the numerator and the denominator. The GCF is the largest number that is a factor of both. For example, to simplify $12/18$:
* Factors of 12: 1, 2, 3, 4, 6, 12
* Factors of 18: 1, 2, 3, 6, 9, 18
* Common factors: 1, 2, 3, 6
* GCF: 6
Now, divide both the numerator and the denominator by the GCF:
* $12 \div 6 = 2$
* $18 \div 6 = 3$
So, $12/18$ simplifies to $2/3$.

2. Least Common Multiple (LCM)

Factors also play a role in finding the Least Common Multiple (LCM). The LCM is the smallest number that is a multiple of two or more numbers. While you can find the LCM by listing multiples, understanding factors can help in more complex scenarios, especially when working with algebraic expressions.

3. Prime Factorization and Number Theory

As mentioned, the unique prime factorization of a number is fundamental to number theory. It's used to prove theorems, understand the properties of numbers, and even in cryptography.

4. Algebra: Factoring Polynomials

In algebra, the concept of "factoring" takes on a broader meaning. We talk about factoring **polynomials** – expressions with variables and exponents. Factoring polynomials means rewriting them as a product of simpler expressions (often binomials or monomials). For instance, factoring the quadratic expression $x^2 + 5x + 6$ means finding two binomials that multiply to give this expression. In this case, it's $(x + 2)(x + 3)$. Here, $(x + 2)$ and $(x + 3)$ are the "factors" of the polynomial. This skill is vital for solving quadratic equations, simplifying rational expressions, and graphing functions.

5. Solving Equations

Factoring is a key technique for solving various types of equations, especially polynomial equations. If you can factor an equation like $x^2 - 5x + 6 = 0$ into $(x - 2)(x - 3) = 0$, you can then easily find the solutions by

setting each factor to zero ($x - 2 = 0$ or $x - 3 = 0$), which gives $x = 2$ and $x = 3$.

Common Terms Related to Factors

Divisor: Synonymous with factor. A divisor is a number that divides another number evenly. *

Multiple: The result of multiplying a number by an integer. For example, 24 is a multiple of 3 ($3 \times 8 = 24$). *

Composite Number: A whole number greater than 1 that has more than two factors (i.e., it's not a prime number). *

Prime Number: A whole number greater than 1 whose only factors are 1 and itself. *

Factor Pair: Two numbers that multiply together to give a specific product. *

Greatest Common Factor (GCF): The largest factor that two or more numbers share. Also known as the Highest Common Factor (HCF). *

Least Common Multiple (LCM): The smallest positive number that is a multiple of two or more numbers.

A Quick Recap

So, to sum it all up, when we ask "what does factor mean in math terms?", we're talking about: *

Numbers that multiply together to produce another number. *

Numbers that divide evenly into

another number without a remainder.** * **Prime factors are the prime numbers that make up the unique building blocks of a composite number.** Factors are more than just numbers; they are the fundamental threads that weave through the fabric of mathematics, connecting concepts and enabling us to solve problems efficiently. Whether you're simplifying fractions, tackling algebraic equations, or exploring the intricate world of number theory, a solid understanding of factors will be your trusty companion. Next time you see a number broken down or multiplied, remember the power of its factors – the essential ingredients that make it whole!

Understanding the Concept of Factor in Mathematical Terms

In mathematics, the term “factor” refers to a whole number that divides evenly into another number without leaving a remainder. This fundamental concept lies at the heart of number theory and plays a crucial role in simplifying expressions, solving equations, and analyzing the structure of integers. At its core, identifying factors helps reveal the building blocks of numbers, much like how atoms form the basis of matter in science.

To understand factors more deeply, consider a number like 24. Its factors are the integers that multiply together to produce 24—such as 1, 2, 3, 4, 6, 8, 12, and 24. Each factor pairs with another to yield the original number; for example, 3 and 8 multiply to give 24, illustrating the reciprocal nature of factor pairs. This pairing reveals a symmetric and predictable pattern: factors typically appear in groups that multiply to the original value, and smaller factors correspond to larger co-factors.

Key Insights About Factors: Factors are not just isolated numbers—they form relationships that expose the internal composition of integers. The process of factoring involves decomposing a number into its prime components, which are the prime numbers that multiply together to form the original number. This decomposition is unique for each integer, a principle known as the Fundamental Theorem of Arithmetic, which guarantees that every positive integer greater than 1 can be represented in exactly one way as a product of primes, regardless of the order of multiplication.

Beyond individual numbers, factors are essential in understanding divisibility rules, greatest common divisors (GCD), and least common multiples (LCM)—concepts that are vital in algebra, number

theory, and applied mathematics. For instance, determining the GCD of two numbers relies on identifying their shared factors, while the LCM uses the least common factorization to find the smallest multiple common to both.

Applications of Factors in Real-World Mathematics

The practical utility of factors extends across disciplines where mathematical reasoning is applied. In simplifying fractions, factoring allows us to reduce expressions by canceling common factors in the numerator and denominator, yielding the simplest form. This process enhances clarity and efficiency in calculations, especially in fractions involving large numbers.

In algebra, factoring polynomials relies heavily on recognizing numerical and variable factors. For example, factoring a quadratic expression like $x^2 + 5x + 6$ involves identifying two binomial factors— $(x + 2)$ and $(x + 3)$ —that multiply back to the original polynomial. This technique not only solves equations more easily but also reveals the roots of the function, which are critical in graphing and optimization problems.

Benefits of Mastering Factorization: Understanding factors strengthens number sense and problem-solving agility. It enables efficient computation, supports algorithm design in computer science, and forms the foundation for more advanced mathematical concepts such as modular arithmetic, cryptography, and error-correcting codes. In engineering and physics, factoring helps model systems with discrete states or periodic behavior, making it indispensable in technical fields.

Future Outlook: The Enduring Relevance of Factors

As mathematics continues to evolve, the concept of factors remains central, adapting to new challenges and technologies. In computational mathematics, algorithms for factoring large integers—though increasingly complex—are essential to cybersecurity, particularly in protecting data through public-key encryption systems like RSA, which depend on the difficulty of factoring massive semiprime numbers.

Moreover, emerging fields such as machine learning and data science leverage factorization in dimensionality reduction and matrix decomposition, where identifying underlying patterns through

factorization improves model efficiency and interpretability. Theoretical advancements also explore generalized factors in abstract algebra and number theory, expanding the classical notion to broader mathematical structures.

In education, teaching factors with clarity and context ensures that learners grasp not just definitions, but the broader significance of decomposition in understanding complexity. As mathematical thinking grows more interdisciplinary, the fundamental role of factors—revealing hidden order in numbers—will continue to illuminate pathways across science, technology, and human knowledge.

Understanding the Essence: What Does "Factor" Mean in Math Terms?

In the vast and intricate landscape of mathematics, certain terms serve as fundamental building blocks, underpinning countless concepts and operations. Among these essential linguistic tools, the word "factor" holds a position of significant importance. While seemingly simple, its meaning resonates across

various branches of mathematics, from elementary arithmetic to advanced algebra and beyond. This article delves into a detailed, analytical exploration of "what does factor mean in math terms," illuminating its core definition, its multifaceted applications, and its crucial role in mathematical problem-solving.

Defining the Factor: The Building Blocks of Multiplication

At its most basic, a factor is a number or an expression that divides another number or expression evenly, leaving no remainder. In the context of multiplication, factors are the individual components that, when multiplied together, produce a specific product. For instance, in the equation $3 \times 5 = 15$, both 3 and 5 are factors of 15. Conversely, 15 is the product, or the result of multiplying its factors.

This fundamental understanding is often the first encounter students have with the concept. When learning multiplication tables, they are essentially memorizing the factors of various numbers. For example, knowing that $4 \times 6 = 24$ means that 4 and 6 are factors of 24. Similarly, 2, 3, 8, 12, and 24 are also factors of 24, as they can divide 24 without leaving a remainder.

Prime Factors: The Ultimate Decomposition

A crucial extension of the factor concept is the notion of prime factors. A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself. Therefore, prime factors are the prime numbers that, when multiplied together, give the original number. This process is known as prime factorization.

Consider the number 12. Its factors are 1, 2, 3, 4, 6, and 12. However, its prime factors are 2 and 3. This is because 12 can be expressed as $2 \times 2 \times 3$. Each of these prime numbers (2 and 3) is a prime factor of 12. The Fundamental Theorem of Arithmetic states that every integer greater than 1 is either a prime number itself or can be represented as the product of prime numbers, and this representation is unique, apart from the order of the factors.

Understanding prime factorization is vital for several mathematical operations, including finding the greatest common divisor (GCD) and the least common multiple (LCM) of two or more numbers. For example, to find the GCD of 12 and 18, we first find their prime factors: $12 = 2 \times 2 \times 3$ and $18 = 2 \times 3 \times 3$. The common prime factors are 2 and 3, so the GCD is $2 \times 3 = 6$.

$3 = 6$. Similarly, the LCM involves identifying all prime factors from both numbers, taking the highest power of each. This showcases the power of factors in simplifying complex numerical relationships.

Factors in Algebra: Unveiling Expressions

The concept of factors extends seamlessly from numbers to algebraic expressions. In algebra, factoring refers to the process of rewriting an expression as a product of its factors. These factors can be numbers, variables, or combinations of both.

For instance, the algebraic expression $5x + 10$ can be factored by identifying a common factor of 5. Thus, $5x + 10$ can be rewritten as $5(x + 2)$. Here, 5 and $(x + 2)$ are the factors of the original expression. Similarly, a quadratic expression like $x^2 + 5x + 6$ can be factored into $(x + 2)(x + 3)$. Recognizing these algebraic factors is fundamental for solving equations, simplifying expressions, and understanding the behavior of functions.

Different techniques are employed for factoring algebraic expressions, depending on their structure. These include:

1. **Factoring out the greatest common factor (GCF):** As seen with $5x + 10$, this involves finding the largest expression that divides all terms.
2. **Factoring by grouping:** This technique is useful for polynomials with four or more terms.
3. **Factoring quadratic trinomials:** This involves finding two binomials that multiply to give the original trinomial. Specific methods like the "ac method" or trial and error are used.
4. **Using special factoring formulas:** These include the difference of squares ($a^2 - b^2 = (a - b)(a + b)$), the sum of cubes ($a^3 + b^3 = (a + b)(a^2 - ab + b^2)$), and the difference of cubes ($a^3 - b^3 = (a - b)(a^2 + ab + b^2)$).

Mastering these factoring techniques is a cornerstone of algebraic proficiency, enabling students to manipulate and solve a wide range of problems. The ability to break down complex expressions into simpler factors often reveals underlying patterns and solutions.

The Broader Significance of Factors

Beyond these direct applications, the concept of factors underpins numerous other mathematical ideas:

Factors and Divisibility: The Foundation of Number Theory

The definition of a factor is intrinsically linked to the concept of divisibility. If 'a' is a factor of 'b', then 'b' is divisible by 'a'. This relationship forms the bedrock of number theory, a field dedicated to the study of integers and their properties. Concepts like even and odd numbers are based on divisibility by 2 (which is a factor of even numbers). Prime and composite numbers are defined by their factors.

Factors in Polynomials and Their Roots

In the realm of polynomial functions, factors play a pivotal role in understanding their roots (also known as zeros). The Factor Theorem states that a polynomial $P(x)$ has a factor $(x - c)$ if and only if $P(c) = 0$. This theorem provides a powerful tool for finding the roots of polynomials, which are the x -values where the graph of the function intersects the x -axis. If we can factor a polynomial into its constituent linear or irreducible quadratic factors, finding its roots becomes significantly easier.

Factors in Matrices and Linear Algebra

The notion of "factor" also appears in more advanced mathematical contexts. In linear algebra, matrices can be decomposed into products of other matrices, a process known as matrix factorization. Techniques like LU decomposition, QR decomposition, and singular value decomposition (SVD) break down a matrix into simpler factors, revealing its underlying structure and properties. These factorizations are crucial for solving systems of linear equations, performing data compression, and understanding the dynamics of linear transformations.

Factors in Calculus and Differential Equations

Even in calculus, the idea of factors can be relevant. When solving certain types of differential equations, techniques involving factorization of operators or expressions can simplify the problem. Understanding the factors of a polynomial can help in analyzing the behavior of functions and their derivatives.

The Importance of Context: Factors in

Different Mathematical Domains

It is crucial to recognize that the precise meaning and application of "factor" can vary slightly depending on the mathematical context. However, the underlying principle of a component that contributes to the formation of a larger entity through multiplication or division remains consistent.

For instance, when discussing whole numbers, we typically refer to numerical factors. In algebra, we talk about algebraic factors, which can include variables and expressions. In set theory, one might consider set-theoretic factors, though this is less common terminology. The key is to understand the operation through which these factors combine to form the whole.

Conclusion: A Ubiquitous Mathematical Concept

In conclusion, the term "factor" in mathematics is a fundamental concept that signifies a component part of a product or an expression that divides another evenly. From the simple multiplication of integers to the complex decomposition of matrices, the idea of a factor is ubiquitous. Understanding what a factor means is not merely about memorizing definitions; it's

about grasping a core principle that enables deeper comprehension and manipulation of mathematical structures.

Whether you are a student learning arithmetic, an algebra student wrestling with equations, or a mathematician delving into abstract concepts, recognizing and utilizing factors will undoubtedly enhance your problem-solving abilities and your appreciation for the elegant interconnectedness of mathematics. The humble "factor" truly is a cornerstone of mathematical understanding, a powerful tool that unlocks solutions and reveals the inherent order within numbers and expressions.

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Questions & Answers About what does factor mean in math terms

No	Question	Answer
1	I keep hearing about 'factors' in math. What's the simplest way to understand what a factor is?	Think of factors as the building blocks of a number through multiplication. A factor is a whole number that divides evenly into another whole number without leaving a remainder. For example, the factors of 12 are 1, 2, 3, 4, 6, and 12 because you can multiply pairs of these numbers (like 2×6 or 3×4) to get 12.

2	When do we typically use the term 'factor' in math, beyond just finding them?	The term 'factor' is fundamental in many areas! You'll encounter it when simplifying fractions (finding common factors), factoring algebraic expressions (breaking them into simpler multiplied parts, like factoring $x^2 - 4$ into $(x-2)(x+2)$), and finding the least common multiple (LCM) or greatest common divisor (GCD) of numbers.
3	Are there different 'types' of factors, or is it always just whole numbers?	In basic arithmetic, we usually talk about *whole number factors*. However, in more advanced math, the concept can extend. For example, in algebra, we factor polynomials into expressions that multiply to give the original polynomial. Prime factors are a special type of whole number factor that are only divisible by 1 and themselves (like 2, 3, 5, 7).
4	Why is it important to find the factors of a number in math class?	Finding factors is crucial for understanding number relationships and performing various mathematical operations efficiently. It helps in simplifying expressions, solving equations, understanding divisibility rules, and forming the basis for concepts like prime factorization and prime numbers.

5	Can you give me a quick example of how factors are used to simplify something in math?	Absolutely! Consider the fraction $12/18$. To simplify it, we find the factors of both numbers. Factors of 12 are (1, 2, 3, 4, 6, 12) and factors of 18 are (1, 2, 3, 6, 9, 18). The greatest common factor (GCF) is 6. By dividing both the numerator and denominator by 6, we simplify the fraction to $2/3$.
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