

Define Factor In Math Terms

*** Unlock the meaning of "factor" in mathematics! This comprehensive guide defines factors, explores related concepts like prime factorization and greatest common factor (GCF), and provides practical examples. Learn how factors are used in various mathematical operations and problem-solving. Master factoring for a deeper understanding of number theory. factor mathematics primefactorization GCF numbertheory*

Defining Factor in Math Terms: A Comprehensive Guide

In mathematics, a factor **is a number that divides another number without leaving a remainder. More formally, if we have two integers 'a' and 'b', then 'a' is a factor of 'b' if there exists an integer 'c' such that $b = a \times c$. This means that 'a' divides 'b' evenly. Let's break it down with some examples:**

- 6 is a factor of 12: **because $12 \div 6 = 2$ (with no remainder). We can also express this as $12 = 6 \times 2$.**
- 5 is not a factor of 12: **because $12 \div 5 = 2$ with a remainder of 2.**
- 1 is a factor of every number: **Any number divided by 1 equals itself.**
- Every number is a factor of itself: **Any number divided by itself equals 1.**

Understanding factors is fundamental to various areas of mathematics, from simplifying fractions to solving algebraic equations. The ability to identify factors quickly and efficiently is crucial for mathematical proficiency. Let's visualize this with a simple chart:

Number	Factors
12	1, 2, 3, 4, 6, 12
15	1, 3, 5, 15
7	1, 7
24	1, 2, 3, 4, 6, 8, 12, 24

Notice that the factors of a number always include 1 and the number itself. Prime numbers (numbers divisible only by 1 and themselves) have only two factors.

Finding Factors: A Practical Approach

Finding all the factors of a larger number can be time-consuming. A systematic approach is necessary. Here's a method:

1. Start with 1 and the number itself: **These are always factors.**
2. Check for divisibility by 2: **If the number is even, 2 is a factor.**
3. Check for divisibility by 3: **If the sum of the number's digits is divisible by 3, then 3 is a factor.**
4. Continue checking for divisibility by prime numbers: **Proceed systematically, checking primes like 5, 7, 11, and so on, until you reach the square root of the number. Once you've gone past the square root, you've found all the factors.**

For example, let's find the factors of 36:

1. **Factors: 1, 36 (start with 1 and itself)**
2. **36 is even, so 2 is a factor. $36 \div 2 = 18$. So, 2 and 18 are factors.**
3. **The sum of digits ($3 + 6 = 9$) is divisible by 3, so 3 is a factor. $36 \div 3 = 12$. So, 3 and 12 are factors.**
4. **$36 \div 4 = 9$. So, 4 and 9 are factors.**
5. **We've gone past the square root of 36 (which is 6), so we've found all the factors: 1, 2, 3, 4, 6, 9, 12, 18, 36**

Prime Factorization

Prime Factorization is the process of expressing a number as a product of its prime factors. A prime number is a whole number greater than 1 that has only two factors: 1 and itself (e.g., 2, 3, 5, 7, 11...). Prime factorization is unique for each number (ignoring the order of the factors). Let's find the prime factorization of 36:

- $36 = 2 \times 18$
- $18 = 2 \times 9$
- $9 = 3 \times 3$

Therefore, the prime factorization of 36 is $2 \times 2 \times 3 \times 3$, often written as $2^2 \times 3^2$. This form is useful in simplifying fractions, finding the greatest common factor (GCF), and other operations.

Greatest Common Factor (GCF)

The greatest common factor (GCF), also known as the highest common factor (HCF), is the largest number that divides evenly into two or more numbers without leaving a remainder. To find the GCF, you can use the prime factorization method:

1. Find the prime factorization of each number.
2. Identify the common prime factors.
3. Multiply the common prime factors to the lowest power.

Let's find the GCF of 12 and 18:

- **Prime factorization of 12: $2^2 \times 3$**
- **Prime factorization of 18: 2×3^2**

The common prime factors are 2 and 3. The lowest power of 2 is 2^1 , and the lowest power of 3 is 3^1 . Thus, the GCF of 12 and 18 is $2 \times 3 = 6$.

Least Common Multiple (LCM)

The least common multiple (LCM) is the smallest positive number that is a multiple of two or more numbers. Similar to finding the GCF, you can use prime factorization to determine the LCM. **1.** Find the prime factorization of each number. **2.** Identify all prime factors from both numbers. **3.** Multiply each prime factor to the highest power it appears in either factorization. *Let's find the LCM of 12 and 18:* • Prime factorization of 12: $2^2 \times 3$ • Prime factorization of 18: 2×3^2 The prime factors are 2 and 3. The highest power of 2 is 2^2 , and the highest power of 3 is 3^2 . Therefore, the LCM of 12 and 18 is $2^2 \times 3^2 = 4 \times 9 = 36$.

Applications of Factors

Factors are extensively used in various mathematical applications, including:

- Simplifying Fractions: **Finding common factors in the numerator and denominator allows for simplification.**
- Solving Algebraic Equations: **Factoring polynomials helps to solve quadratic and higher-degree equations.**
- Number Theory: **Understanding factors is essential for delving into advanced concepts like prime numbers, divisibility rules, and modular arithmetic.**
- Cryptography: **Factorization plays a significant role in modern cryptography algorithms.**

Conclusion: **Understanding the concept of factors forms a cornerstone of many mathematical disciplines. From fundamental arithmetic to advanced number theory, the ability to recognize and manipulate factors proves indispensable. By grasping the related concepts of prime factorization, GCF, and LCM, one can significantly enhance their problem-solving skills and mathematical understanding.**

FAQs: **1.** What is the difference between a factor and a multiple? *A factor divides a number evenly, while a multiple is the result of multiplying a number by an integer. For example, 3 is a factor of 12, and 12 is a multiple of 3.* **2.** Can a number have an infinite number of factors? **No, a number has a finite number of factors.** **3.** How do I find factors quickly for large numbers? *While there's no magic trick, efficient factorization algorithms are used for large numbers in computer science. For smaller numbers, systematic checking of prime numbers is generally sufficient.* **4.** What is the significance of prime factorization in cryptography? **The difficulty of factoring very large numbers into their prime factors is the basis of many modern encryption techniques.** **5.** Are there any online tools to find factors or perform prime factorization? **** Yes, many online calculators and resources are available to assist with these computations, especially for large numbers.**

Unpacking the 'Factor' in Math: More Than Just Multiplication

Ever found yourself staring at a math problem, a little confused about what a "factor" actually is? You're definitely not alone! The word "factor" pops up so frequently in mathematics, from elementary school arithmetic to advanced algebra, that it's easy to take its meaning for granted. But understanding factors is fundamental to unlocking many mathematical concepts. So, let's dive deep and truly define what a factor is in math terms, exploring its significance and how it plays a crucial role in various mathematical operations and ideas.

What Exactly is a Factor? A Simple Definition

At its core, a ****factor**** in mathematics is a number or expression that divides another number or expression evenly, leaving no remainder. Think of it like breaking down a larger whole into its constituent parts. If you can multiply two or more numbers together to get a specific number, then each of those numbers is a factor of that specific number. Let's take a simple example: the number 12. What numbers can you multiply together to get 12?

1. $1 \times 12 = 12$
2. $2 \times 6 = 12$
3. $3 \times 4 = 12$

From this, we can see that the numbers 1, 2, 3, 4, 6, and 12 are all ****factors**** of 12. They are the building blocks that, when multiplied, reconstruct the original number.

Factors in Arithmetic: The Building Blocks of Numbers

In the realm of arithmetic, factors are perhaps most intuitively understood. When we talk about factors of integers, we're essentially looking for pairs of whole numbers that multiply to produce that integer.

Prime Factors: The Undivisible Building Blocks

A particularly important concept related to factors is **prime factorization**. A **prime number** is a whole number greater than 1 that has only two factors: 1 and itself. Examples include 2, 3, 5, 7, 11, and so on. **Prime factors** are the prime numbers that, when multiplied together, give the original number. Every composite number (a whole number greater than 1 that is not prime) has a unique set of prime factors. This is known as the **Fundamental Theorem of Arithmetic**. Let's find the prime factors of 36:

1. We know $36 = 6 \times 6$.
2. 6 is not prime, so we break it down further: $6 = 2 \times 3$.
3. So, $36 = (2 \times 3) \times (2 \times 3)$.
4. Rearranging, we get $36 = 2 \times 2 \times 3 \times 3$, or $2^2 \times 3^2$.

The prime factors of 36 are 2 and 3. This process of finding prime factors is incredibly useful for simplifying fractions, finding the greatest common divisor (GCD), and the least common multiple (LCM).

Common Factors and Greatest Common Divisors (GCD)

When we compare two or more numbers, we can identify their **common factors** – the numbers that are factors of all of them. The **greatest common divisor (GCD)**, also known as the **greatest common factor (GCF)**, is the largest of these common factors. Consider the numbers 24 and 36.

1. Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24
2. Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36

The common factors are 1, 2, 3, 4, 6, and 12. The greatest common divisor (GCD) of 24 and 36 is therefore 12.

Understanding GCD is vital for simplifying fractions. For example, to simplify $24/36$, you would divide both the numerator and the denominator by their GCD, which is 12, resulting in $2/3$.

Least Common Multiples (LCM)

While factors help us break numbers down, their counterparts, **multiples**, help us build them up. A multiple of a number is the result of multiplying that number by an integer. For instance, multiples of 5 are 5, 10, 15, 20, and so on. The **least common multiple (LCM)** of two or more numbers is the smallest positive number that is a multiple of all of them. While not directly defined by factors, the concept of LCM is closely related to factors through prime factorization. The LCM can be found by taking the highest power of all prime factors present in any of the numbers.

Factors in Algebra: Expressions as Factors

The concept of a factor extends beyond just numbers into the realm of algebra. In algebra, **factors** are expressions that, when multiplied together, produce another expression. This is particularly relevant in **factoring algebraic expressions**.

Factoring Polynomials

Factoring a polynomial means rewriting it as a product of simpler expressions, typically other polynomials. This is a fundamental skill in algebra, used for solving equations, simplifying expressions, and understanding the behavior of functions. For example, consider the quadratic expression $x^2 + 5x + 6$. We are looking for two binomials that multiply to give us this expression. We need two numbers that add up to 5 (the coefficient of the x term) and multiply to 6 (the constant term). These numbers are 2 and 3. So, $x^2 + 5x + 6$ can be factored into $(x + 2)(x + 3)$. Here, $(x + 2)$ and $(x + 3)$ are the **algebraic factors** of the polynomial $x^2 + 5x + 6$.

Common Factoring Techniques

There are several common techniques for factoring algebraic expressions:

1. **Factoring out the Greatest Common Factor (GCF):** This is the first step in factoring many polynomials. It involves identifying the largest common factor among all the terms and pulling it out. For example, in $4x^2 + 8x$, the GCF is $4x$, so we factor it as $4x(x + 2)$.
2. **Factoring Trinomials:** As seen in the $x^2 + 5x + 6$ example, this involves finding binomial factors for quadratic expressions of the form $ax^2 + bx + c$.
3. **Difference of Squares:** Expressions of the form $a^2 - b^2$ can be factored as $(a - b)(a + b)$. For instance, $x^2 - 9$ factors into $(x - 3)(x + 3)$.
4. **Sum/Difference of Cubes:** Similar to the difference of squares, there are formulas for factoring $a^3 + b^3$ and $a^3 - b^3$.

The Importance of Factors in Mathematics

Why do we spend so much time talking about and working with factors? Their importance spans across numerous mathematical disciplines:

1. **Simplifying Expressions:** As we've seen, factoring is key to simplifying fractions and algebraic expressions, making them easier to work with.
2. **Solving Equations:** Factoring is a primary method for solving polynomial equations, especially quadratic equations. If a product of factors equals zero, then at least one of the factors must be zero. This principle, known as the **Zero Product Property**, is invaluable.
3. **Understanding Number Theory:** The study of integers and their properties heavily relies on the concept of factors, prime numbers, and divisibility.
4. **Calculus and Beyond:** In higher mathematics, factoring is used in simplifying derivatives, integrals, and analyzing the roots of functions.
5. **Computer Science:** Concepts like prime factorization are fundamental to modern cryptography.

Beyond Integers: Factors in Other Mathematical Contexts

While our primary focus has been on integers and polynomials, the idea of a "factor" can be generalized.

Factors of Matrices

In linear algebra, matrices can also be decomposed into products of other matrices. While not always referred to as "factors" in the same direct way as numbers, these decompositions (like LU decomposition) reveal underlying structural components, akin to factors.

Factors in Logic and Set Theory

In more abstract branches of mathematics, the concept of divisibility and decomposition can reappear in different forms, sometimes represented by logical implications or set-theoretic relationships.

Conclusion: Embracing the Power of Factors

So, what is a factor in math terms? It's a fundamental concept that represents a component part of a larger number or expression, capable of dividing it without leaving a remainder. From the basic building blocks of arithmetic (prime factors) to the tools for simplifying and solving algebraic equations, understanding factors is an essential skill. By mastering the art of identifying and manipulating factors, you unlock a deeper understanding of the elegant structure and interconnectedness of mathematics. Keep an eye out for them; they're everywhere!

Defining a Factor in Mathematical Terms In mathematics, a factor is a fundamental building block used to construct the

composition of numbers, expressions, or algebraic structures. At its core, a factor represents a quantity that divides another number or expression evenly, meaning it multiplied by another factor yields the original value. This concept is central to number theory, algebra, and arithmetic, serving as a cornerstone for understanding divisibility, prime decomposition, and equation solving. A factor can be understood through its role in multiplication: when two or more factors are multiplied together, their product equals the original number or expression. For example, in the factorization of 12 into 3×4 , both 3 and 4 are factors of 12 because multiplying them together produces 12. This relationship highlights how factors reveal the hidden structure within numbers, breaking them down into simpler, multiplicative components. When a number can be expressed as a product of integers greater than one, those integers are classified as factors, forming the basis for deeper mathematical analysis. One of the most profound applications of factorization lies in prime decomposition, where every integer greater than one is expressed as a unique product of prime numbers—primes being the indivisible factors that cannot be broken down further. This unique factorization theorem is a pillar of number theory and underpins critical concepts such as greatest common divisors (GCD) and least common multiples (LCM). By identifying all factors of a number, mathematicians can efficiently compute these essential values, which are vital in simplifying fractions, solving equations, and analyzing numerical patterns. Beyond basic arithmetic, factors play a crucial role in algebra, particularly in factoring polynomials. Expressing a polynomial as a product of lower-degree factors allows for simplification, solving of equations, and graphing of functions. For instance, factoring a quadratic expression like $x^2 + 5x + 6$ into $(x + 2)(x + 3)$ enables direct determination of roots and simplifies complex algebraic manipulations. This ability to decompose expressions into multiplicative parts enhances clarity, efficiency, and insight in both theoretical and applied mathematics. The benefits of understanding factors extend far beyond theoretical exercises. In real-world contexts, factors are indispensable in cryptography, where the difficulty of factoring large composite numbers ensures secure communication systems. In computer science, factorization algorithms support data compression, error detection, and optimization tasks. Moreover, in fields like engineering and economics, breaking down quantities into their factorial components aids in modeling, analysis, and decision-making. Looking ahead, the study of factors continues to evolve with advances in computational mathematics and artificial intelligence. As algorithms grow more sophisticated, the ability to efficiently factor increasingly large numbers remains a key challenge, especially in cryptography where security relies on the computational hardness of factorization. Meanwhile, emerging areas such as quantum computing may revolutionize factoring techniques, potentially transforming current encryption standards. Nonetheless, the foundational concept of a factor—simple yet powerful—remains essential in both classical and modern mathematics, bridging theory and practice across disciplines. Understanding factors not only enriches mathematical literacy but also empowers problem-solving across scientific and technical domains. By recognizing how numbers and expressions decompose into simpler multiplicative parts, learners and professionals alike gain deeper insight into the structure and relationships that govern the mathematical world.

Unpacking the "Define Factor" in Mathematics: More Than Just a Number

In the intricate world of mathematics, certain terms carry a weight and depth far beyond their seemingly simple definitions. The "define factor," while not a universally recognized standalone mathematical term in the same vein as "prime factor" or "scaling factor," is a concept that permeates various branches of mathematics. It refers to a fundamental element or characteristic that is crucial in establishing or understanding a mathematical object, relationship, or process. Think of it as the essential ingredient that makes something what it is, or the primary driver that dictates its behavior.

While a single, rigid definition of "define factor" might elude us, its essence can be explored through its manifestations in different mathematical contexts. This article will delve into the multifaceted nature of what can be considered a "define factor" in mathematics, exploring its significance in areas such as algebra, calculus, geometry, and even set theory. By understanding these various applications, we can gain a more profound appreciation for the foundational elements that shape our mathematical understanding.

The Core Concept: What Constitutes a "Define Factor"?

At its heart, a "define factor" is an attribute, property, or variable that is indispensable for precisely characterizing or constructing a mathematical entity. Without this factor, the entity would either not exist, be ambiguous, or be fundamentally different from its intended form. It's the element that separates one mathematical object from another, or one state from another.

Consider the definition of a line. What is the "define factor" here? While a line extends infinitely in both directions, its precise location and orientation in space are defined by two key pieces of information: either two distinct points it passes through, or a single point it passes through and its slope (or direction vector). These elements are the "define factors" of a line. Change either the points or the slope, and you have a completely different line.

Similarly, in algebra, when we talk about solving equations, the "define factor" often refers to the unknown variable itself. It's the element whose value we are trying to determine. The entire process of algebraic manipulation is aimed at isolating and defining this specific factor.

Identify the Essential: The Indispensable Element

The key characteristic of a "define factor" is its indispensability. If you can alter or remove this factor without fundamentally changing the nature of the mathematical object or process, then it's likely not a "define factor" in the strictest sense. For instance, the color of a geometric shape is not a define factor in Euclidean geometry; its shape, size, and position are.

In a more abstract sense, a "define factor" can also be a set of axioms or postulates. In Euclidean geometry, the parallel postulate is a prime example of a define factor. Its inclusion or exclusion leads to vastly different geometric systems (Euclidean vs. non-Euclidean geometries).

"Define Factors" in Action: Exploring Various Mathematical Domains

The concept of a "define factor" plays out in diverse ways across the mathematical landscape. Let's explore some prominent examples.

Algebra: Variables, Coefficients, and Roots

In algebra, the most obvious "define factor" is the **variable**. An equation like $2x + 5 = 11$ is defined by the presence of the variable x . The entire purpose of solving this equation is to find the specific value of x that makes the statement true. Without x , it's just a numerical statement without a variable to solve for.

Beyond variables, **coefficients** also act as define factors. In the quadratic equation $ax^2 + bx + c = 0$, the coefficients a , b , and c are crucial define factors. Changing any of these coefficients will result in a different quadratic equation with potentially different roots (solutions). The discriminant, $\Delta = b^2 - 4ac$, itself derived from these coefficients, is a powerful define factor that tells us about the nature of the roots (real, distinct, repeated, or complex).

The **roots** of a polynomial equation are also define factors. A polynomial is uniquely determined (up to a scalar multiple) by its roots and their multiplicities. For instance, a polynomial with roots 1, 2, and 3 is fundamentally different from a polynomial with roots 1, 1, and 2. Understanding the roots is key to defining the polynomial's behavior and structure.

Calculus: Limits, Derivatives, and Integrals

In calculus, the notion of a "define factor" becomes more dynamic and process-oriented. The concept of a **limit** is a foundational define factor. The behavior of a function as it approaches a certain point, defined by the limit, dictates its continuity and differentiability. For example, the limit definition of the derivative: $f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$

$f(x) \cdot \{h\}$ highlights the limit as the core define factor in understanding the instantaneous rate of change.

The **derivative** itself is a define factor for a function's instantaneous rate of change. Knowing the derivative of a function tells us about its slope, its increasing/decreasing intervals, and its local extrema. For instance, the critical points of a function are defined by where its derivative is zero or undefined. These points are critical for analyzing the function's behavior and finding its maximum and minimum values.

Similarly, the **integral** (both definite and indefinite) is a define factor. A definite integral defines the area under a curve between two specific points, quantifying a cumulative effect. An indefinite integral, on the other hand, defines the family of functions whose derivative is the integrand, essentially reversing the process of differentiation.

Geometry: Dimensions, Angles, and Congruence

In geometry, "define factors" are often inherent properties of shapes and spaces.

1. **Dimensions:** The number of dimensions of a space is a primary define factor. A point exists in 0 dimensions, a line in 1 dimension, a plane in 2 dimensions, and our familiar universe in 3 dimensions. Changing the dimension fundamentally alters the geometry and the types of objects that can exist within it.
2. **Angles:** For polygons, the measure of their interior angles is a define factor. A triangle with angles 60° , 60° , and 60° is equilateral and equiangular, distinctly different from a triangle with angles 90° , 45° , and 45° (a right isosceles triangle).
3. **Congruence and Similarity:** In Euclidean geometry, congruence (identical shape and size) and similarity (identical shape, possibly different size) are defined by specific sets of "define factors." For triangles, side-side-side (SSS), side-angle-side (SAS), and angle-side-angle (ASA) are all define factors that establish congruence. For similarity, angle-angle (AA) is sufficient.
4. **Radius and Center:** The definition of a circle relies on two define factors: its center and its radius. Any point on the circle is equidistant from the center, with the distance being the radius. Alter either of these, and you have a different circle.

Set Theory: Membership and Cardinality

Even in the abstract realm of set theory, the concept of a "define factor" is present.

1. **Membership:** The defining characteristic of a set is its members. A set is defined by the collection of elements it contains. The set {apple, banana} is distinct from the set {apple, orange} solely based on the element that differs.
2. **Cardinality:** The cardinality of a set, which is the number of elements it contains, is a define factor that distinguishes sets. A set with three elements is fundamentally different in size from a set with five elements.

The Importance of "Define Factors" in Mathematical Reasoning

Understanding "define factors" is crucial for several reasons:

1. **Clarity and Precision:** Identifying the define factors of a mathematical concept ensures clarity and avoids ambiguity. It allows mathematicians to communicate ideas precisely and build upon established definitions.
2. **Problem-Solving:** In problem-solving, recognizing the define factors of the problem is often the first step towards finding a solution. Whether it's isolating a variable, understanding the constraints of a system, or identifying the key parameters, pinpointing these factors is essential.
3. **Generalization and Abstraction:** By understanding the core define factors of a concept, mathematicians can generalize it to broader contexts or abstract it into more fundamental principles. This allows for the development of powerful mathematical theories.
4. **Building Blocks of Mathematics:** Define factors serve as the fundamental building blocks upon which more complex mathematical structures are constructed. Without a clear understanding of these foundational elements, it becomes difficult to grasp more advanced concepts.

Conclusion: The Ubiquitous Nature of Define Factors

While "define factor" might not be a formal entry in every mathematical lexicon, the underlying concept is undeniably ubiquitous. It represents the essential ingredients that breathe life into mathematical definitions, drive mathematical processes, and differentiate mathematical entities. From the simple variable in an algebraic equation to the intricate axioms that govern geometric systems, these "define factors" are the silent architects of our mathematical understanding. By actively seeking to identify and understand these foundational elements, we unlock a deeper, more analytical appreciation for the elegance and power of mathematics.

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Questions & Answers About define factor in math terms

No	Question	Answer
1	What exactly is a 'factor' when we're talking about numbers in math?	In mathematics, a factor is a number that divides another number exactly, with no remainder. For example, the factors of 12 are 1, 2, 3, 4, 6, and 12 because each of these numbers divides 12 evenly.
2	Are factors just for whole numbers, or can they apply to other types of numbers?	Primarily, the concept of factors is introduced with whole numbers (integers). However, the idea can be extended to polynomials, where factors are expressions that divide a polynomial exactly. For rational numbers, any non-zero number is technically a factor of any other rational number.
3	What's the difference between a 'factor' and a 'multiple'?	A factor is a number that divides into another number exactly. A multiple, on the other hand, is the result of multiplying a number by an integer. For instance, 3 is a factor of 6, and 18 is a multiple of 6.
4	Why are factors important in math? What's their practical use?	Factors are fundamental to many mathematical concepts. They are crucial for simplifying fractions, finding the greatest common divisor (GCD), least common multiple (LCM), factoring algebraic expressions, and understanding prime numbers, which form the building blocks of all integers.
5	Can a number have negative factors? How does that work?	Yes, if we consider integers, negative numbers can also be factors. For example, the factors of 12 include -1, -2, -3, -4, -6, and -12. This is because dividing 12 by any of these negative numbers also results in an integer with no remainder.
6	What's a 'prime factor'? Is it different from a regular factor?	A prime factor is a factor of a number that is also a prime number (a whole number greater than 1 that has only two divisors: 1 and itself). For example, the prime factors of 12 are 2 and 3, because $12 = 2 \times 2 \times 3$.
7	How do I find all the factors of a given number?	To find all factors, start by checking numbers from 1 up to the square root of the given number. If a number divides evenly, it's a factor, and its corresponding pair (the result of the division) is also a factor. For example, for 36, check up to 6. 1 divides 36 (so 1 and 36 are factors), 2 divides 36 (so 2 and 18 are factors), 3 divides 36 (so 3 and 12 are factors), 4 divides 36 (so 4 and 9 are factors), and 6 divides 36 (so 6 is a factor). Remember to include the number itself and 1.
8	Is there a mathematical term for a number that has only two factors?	Yes, a whole number greater than 1 that has exactly two distinct positive factors (1 and itself) is called a prime number. Examples include 2, 3, 5, 7, 11, and so on.

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