

What does the word more mean in math

Unlocking the Power of "More" in Math: From Simple Addition to Complex Concepts Have you ever paused to consider the seemingly simple word "more"? It's a cornerstone of mathematical understanding, yet its implications extend far beyond basic addition. From calculating the growth of a population to understanding the intricacies of calculus, "more" acts as a powerful operator that shapes our perception of quantities and their relationships. This delves deep into the multifaceted meaning of "more" in mathematics, exploring its various interpretations and highlighting its critical role in problem-solving.

The Foundation: Addition and Beyond

At its most fundamental level, "more" signifies addition. $2 + 2 = 4$. The concept is intuitive, but "more" isn't confined to integers. It applies to fractions, decimals, and even abstract quantities. Imagine measuring the length of a board. Adding 3 feet to the initial measurement signifies "more" length. Even in algebraic expressions, "more" is implicitly represented through addition: $\square + \square$ signifies that $\square$ is "more" by the amount of $\square$.

Beyond the Sum: Multiplication and Ratios

The concept of "more" expands when we consider multiplication. If a store has 3 boxes, each containing 5 apples, we aren't just adding 5 apples three times. We're finding a *multiple* - a proportionally increased quantity. This leads us to understanding ratios. The ratio 3:1 indicates that one quantity is "more" than the other by a factor of 3. This concept is crucial in fields like finance, where compound interest relies on understanding multiplicative growth. For example, an initial investment of \$1000 that earns 5% interest annually will grow to \$1100 after the first year. That's an increase in the original value; hence, the concept of "more."

Growth, Decay, and Change

"More" isn't static; it encompasses change. The concept of growth, exponential or otherwise, profoundly depends on "more." Population growth, compound interest, and the decay of radioactive materials are all situations where "more" or "less" (the inverse concept) is a dynamic variable. For instance, consider a bacteria culture doubling every hour. After each hour, there's "more" bacteria. Conversely, radioactive decay involves a decrease in the quantity over time. Mathematics allows us to precisely quantify these changes. Mathematical modeling plays a critical role in understanding these evolutionary trends.

"More" in Geometry and Measurement

Even in geometry, "more" finds its application. Comparing areas or volumes necessitates understanding "more" in the context of spatial dimensions. A larger rectangle has "more" area

than a smaller one. Consider two triangles; the one with a larger base or height can be said to have "more" area. Similarly, a sphere with a larger radius occupies "more" three-dimensional space.

"More" and Inequalities

Beyond numerical quantities, "more" often signifies the relationship between values. The concept of "more" is directly connected to inequalities. Mathematical symbols like "greater than" ($>$) and "greater than or equal to" ($\geq$) precisely define a concept of "more." This is instrumental in comparing and contrasting quantities in various contexts, from economics (comparing profits) to engineering (comparing stresses).

"More" in Probability and Statistics

Probability and statistics rely heavily on the concept of "more" in the context of outcomes. A higher probability signifies a higher likelihood of an event occurring. "More" is also integral in calculating distributions, such as the normal distribution, where the concept of "more likely" is explicitly used.

The Impact of "More" in Different Fields

The implications of understanding "more" extend far beyond the classroom. Here are key takeaways: • **Finance:** Understanding compound interest relies on recognizing "more" as multiplicative growth. • **Engineering:** Designing structures requires calculating stresses and evaluating "more" load-bearing capacity. • **Medicine:** Mathematical models predict the spread of diseases, using "more" cases as input variables. • **Technology:** Algorithms analyze vast amounts of data, constantly looking for "more" optimal solutions.

Examples Illustrating the Concept

• **Compound Interest:** A \$1000 investment earning 5% interest annually will accumulate to \$1,276.28 after 10 years—a significant "more" than the initial investment. • **Population Growth:** A city experiencing 2% annual growth will have a substantially larger population in 20 years, representing a marked "more" than the initial population. • **Data Analysis:** Analysis of stock market trends often reveals periods of higher returns, signifying "more" profit.

Advanced Concepts of "More"

• **Limits and Continuity:** In calculus, understanding limits and continuity relies on the idea of "more" closely approaching a value. • **Infinite Series:** Infinite sums can represent concepts like "more" than a finite sum, leading to deeper understanding of mathematical systems. • **Differentiation:** The derivative captures the instantaneous rate of change, which signifies "more" in a dynamic scenario. • **Integration:** The integral calculates the accumulation of a function over an interval—a powerful way to quantify "more" area or volume. • **Vectors and Scalars:** In advanced mathematics, the direction of a vector adds a further layer of meaning to "more" than simply a magnitude.

Conclusion: Embracing the Power of "More"

The word "more," seemingly simple, is a cornerstone of mathematical thought. It fuels our ability to understand growth, change, and the relationships between quantities. From basic arithmetic to complex calculus, the concept of "more" empowers us to analyze, predict, and interpret the world around us. It unlocks the potential of modeling intricate systems, making crucial decisions, and fueling innovation across countless disciplines. Learn more about how the fundamental concept of "more" underpins the world around you.

Frequently Asked Questions (Advanced)

1. **How does "more" relate to the concept of infinity?** Infinity, while not a number, represents the concept of "more" than any finite quantity. This is a profound concept in advanced mathematics. 2. **Can "more" be negative?** Yes, in the context of subtraction, "less" can be considered negative "more." 3. **How does the concept of "more" manifest in set theory?** In set theory, "more" is often represented by the cardinality of a set. A set with a larger cardinality contains "more" elements. 4. *What role does "more" play in the field of optimization?* Optimization algorithms frequently seek to find the "more" optimal solution among a vast range of possibilities. 5. **How is "more" used in differential equations?** Differential equations model dynamic systems, where "more" or "less" (decline) in a particular quantity (e.g., temperature, population) is a crucial part of the equations. *Call to Action:* Embrace the power of "more" in mathematics! Explore its applications in diverse fields, and unlock your potential to understand and model the world around you. Further your mathematical understanding by practicing problems related to "more" or reaching out to your mathematical mentors.

What Does the Word "More" Mean in Math? Unpacking the Concept of Quantity

When you hear the word "more" in everyday conversation, it usually implies an increase, an addition, or a greater amount of something. We want more ice cream, more time, more opportunities. But what does "more" truly signify in the structured world of mathematics? It's a fundamental concept, the bedrock of comparison and quantity, and understanding it unlocks a whole universe of mathematical ideas. Let's dive deep into the nuanced meaning of "more" in math, exploring its various facets and how it shapes our understanding of numbers and operations.

"More" as Simple Comparison: Greater Than

At its most basic, "more" in math translates directly to the concept of "greater than." When we say one number is "more" than another, we're indicating that it occupies a higher position on the number line. Think of it as having a larger quantity or value.

The Greater Than Symbol (>)

This is where the familiar symbol ">" comes into play. When you see " $5 > 3$," it means that 5 is "more than" 3. The open end of the symbol always points towards the larger number, serving as a visual cue. This symbol is crucial for ordering numbers, comparing sets, and establishing inequalities.

Examples in Everyday Math

Imagine you have 7 apples and your friend has 4 apples. You have "more" apples than your friend. In mathematical terms, $7 > 4$. This simple comparison is a gateway to understanding more complex mathematical relationships. Even in early learning stages, children grasp this concept through tangible objects - one pile of blocks is visibly "more" than another. This foundational understanding of "more" as "greater than" is essential for everything from basic arithmetic to advanced algebra.

"More" as Addition: The Act of Increasing

Beyond simple comparison, "more" often signifies the act of addition. When we add something, we increase a quantity, making it "more" than it was before. This is the essence of the addition operation.

The Plus Sign (+) and its Role

The "+" symbol is our mathematical shorthand for "and" or "plus," which directly translates to making something "more." For instance, if you have 5 cookies and your mom gives you 2 more cookies, you now have $5 + 2 = 7$ cookies. The "2 more" represents the quantity being added, resulting in a larger total.

Real-World Scenarios of Addition

Think about counting money. If you have \$10 and earn \$5 more, you have \$15. The "more" here is the \$5 you earned, increasing your total. This concept extends to calculating distances, measuring ingredients, and tracking progress in any quantifiable endeavor. Understanding "more" as addition is fundamental to solving word problems and applying mathematical principles to real-life situations. It's about the accumulation of value or quantity.

"More" in the Context of Sets and Collections

The concept of "more" also applies beautifully when we talk about groups or collections of items, which mathematicians call sets.

Cardinality and Comparison

The cardinality of a set is simply the number of elements it contains. If Set A has 8 elements and Set B has 5 elements, we can say Set A has "more" elements than Set B. This is another instance of the "greater than" comparison, but applied to the size of collections.

Subsets and Proper Subsets

While not always directly phrased as "more," the idea of a larger set containing a smaller one relates to the concept. A set is "more" than its proper subset because it includes all the elements of the subset plus at least one additional element. This builds towards understanding set theory and relationships between different groups of numbers or objects.

"More" in the Language of Functions and Variables

As we move into more abstract mathematical realms, like algebra, the meaning of "more" becomes intertwined with variables and the behavior of functions.

Independent and Dependent Variables

In a function like $y = 2x$, as 'x' (the independent variable) increases, 'y' (the dependent variable) also increases. We can say that 'y' gets "more" as 'x' gets "more." This describes a direct relationship where an increase in one quantity leads to a proportional increase in another.

Rate of Change and Slope

The slope of a line, a fundamental concept in algebra, tells us "how much more" 'y' changes for every unit increase in 'x'. A steeper slope signifies a greater rate of change, meaning 'y' increases "more" rapidly. This understanding is vital for analyzing trends, predicting outcomes, and modeling real-world phenomena. Keywords like "rate of change," "slope," and "function behavior" are closely linked to this interpretation of "more."

"More" in Probability and Statistics: Likelihood and Frequency

In the realm of probability and statistics, "more" often refers to likelihood or frequency.

Higher Probability

If an event has a higher probability than another, we say it is "more likely" to occur. For instance, rolling a 6 on a fair die has a lower probability than rolling any number from 1 to 6. Therefore, rolling *any* number is "more probable" than rolling a specific number.

Greater Frequency

In statistical analysis, if a certain outcome appears with greater frequency in a dataset, we say it is "more common" or occurs "more often." This helps us identify patterns and draw conclusions about populations based on sample data. Understanding "more" in this context is key to interpreting charts, graphs, and statistical reports.

"More" in Calculus: Limits and Infinitesimals

Even in the advanced field of calculus, the concept of "more" finds its place, albeit in a more sophisticated form.

Approaching Infinity

When we talk about limits, we often consider what happens as a variable gets "arbitrarily large" or approaches infinity. This is a form of "more" taken to an extreme. We're not just adding a few, we're considering an unending increase.

Infinitesimals: A Different Kind of "More"

Conversely, calculus also deals with infinitesimals – quantities that are "more than zero but smaller than any positive number." This is a paradoxical but crucial concept, representing an incredibly tiny increase, a microscopic "more."

Beyond the Literal: "More" as a Catalyst for Mathematical Exploration

Ultimately, the word "more" in mathematics is more than just a simple definition. It's a catalyst that drives inquiry and exploration. When we ask "how much more?" or "what happens if we have more?", we're engaging in the core activities of mathematical thinking.

The Foundation of Problem-Solving

Every mathematical problem, from simple arithmetic to complex equations, often boils down to understanding quantities and their relationships. "More" is central to this understanding. Whether it's finding the difference between two numbers (how much *more* is one than the other?) or calculating a total (how much *more* do we have after adding?), the concept of "more" is indispensable.

Keywords to Remember When Thinking About "More" in Math: * Greater than * Addition * Increase * Quantity * Amount * Value * Comparison * Set * Collection * Probability * Frequency * Rate of change * Function * Variable * Limit * Difference

In conclusion, the seemingly simple word "more" in mathematics is a multifaceted concept. It represents comparison, the act of addition, the size of sets, the behavior of functions, likelihood in probability, and even the infinitesimally small or infinitely large in calculus. By dissecting its various meanings, we gain a deeper appreciation for the elegance and interconnectedness of mathematical ideas. So, the next time you encounter "more" in a mathematical context, remember that it's not just about having a larger number; it's about understanding the very fabric of quantity and change that mathematics so beautifully describes.

The word more in mathematics carries a precision and versatility that goes far beyond its everyday use as a comparative term. While commonly understood in daily language as a way to indicate addition or greater quantity, within mathematical contexts it assumes a deeper, more structured role that underpins core concepts across various disciplines. Understanding what

"more" means in math reveals not only its linguistic function but also its conceptual power in expressing relationships, transformations, and growth.

Defining "More" in Mathematical Contexts At its essence, "more" in mathematics functions as a relational operator that denotes augmentation—whether of numerical values, geometric quantities, or abstract measures. It is not merely a simple addition but a symbolic representation of increase, change, or expansion. For instance, when we write "x more than y," we are not just saying x is larger than y; we are encoding a specific arithmetic relationship: $x = y + a$, where a is a positive quantity. This formulation enables clarity in equations, inequalities, and real-world modeling, allowing mathematicians and students alike to precisely define differences and modifications in values. In algebra, "more" often appears in expressions involving variables and constants, such as "greater than" or "more than," helping to formulate conditions and solve equations. In calculus, it plays a subtle but vital role in describing rates of change—where "more" can reflect accumulation, difference, or incremental shifts over intervals. In statistics, "more" aids in expressing differences between data sets, supporting comparisons and inferences critical for decision-making.

Key Insights: Precision and Versatility One of the most significant aspects of "more" in math is its ability to convey both quantitative and qualitative meaning. While numerically it aligns with addition, its application extends to conceptual domains. For example, "more than zero" might signal positivity, a foundational condition in defining domains or ensuring meaningful solutions. In vector spaces, "more" can describe directional growth or displacement—key in physics and engineering applications. This versatility makes "more" a linchpin in mathematical language, bridging concrete

arithmetic with abstract reasoning. Moreover, “more” supports the formulation of inequalities and constraints, which are central to optimization problems, economic models, and scientific simulations. It enables the expression of thresholds, excesses, and deviations—essential for modeling real-world phenomena where exact equality is rare. Whether describing population growth, financial interest, or thermodynamic changes, “more” captures the dynamic nature of measurable quantities and their evolution.

Practical Applications and Benefits The practical implications of “more” in mathematics are vast and far-reaching. In finance, calculating “more interest earned” over time involves understanding incremental gains, directly impacting investment strategies and risk assessment. In engineering, “more material strength” translates to safety margins and structural integrity. In computer science, algorithms often compare performance using “more efficient” or “increased processing speed,” driving innovation and efficiency. Educators leverage “more” to scaffold learning, helping students grasp complex ideas through comparative reasoning. By framing problems around “more,” “less,” “greater than,” and “less than,” learners develop stronger logical thinking and problem-solving skills. This conceptual foundation supports not only mathematical fluency but also critical analysis in science, technology, and everyday decision-making.

Future Outlook: Expanding the Role of “More” As mathematics continues to evolve, especially with advances in data science, artificial intelligence, and quantum computing, the role of “more” is likely to expand in both meaning and application. In machine learning, algorithms interpret “more” as patterns of

increasing probability or feature significance, enabling smarter predictions. In big data analytics, “more” helps quantify growth, trends, and anomalies across massive datasets, driving insights that shape policy, commerce, and research. Furthermore, interdisciplinary fields increasingly rely on precise mathematical language, where “more” serves as a universal signifier of augmentation across domains. As new mathematical frameworks emerge—such as topological data analysis or network theory—the concept of “more” will continue to anchor complex relationships, ensuring clarity and consistency in communication and computation. In essence, “more” in mathematics is far more than a simple comparative term. It is a foundational expression of change, growth, and difference—central to both theoretical understanding and practical problem-solving. Its enduring relevance lies in its ability to capture complexity with precision, making it an indispensable part of mathematical discourse and its ever-expanding applications.

In the vast landscape of mathematics, where precision and clarity are paramount, even seemingly simple words can hold profound meaning. One such word, often encountered across various mathematical disciplines, is “more.” While its everyday usage might suggest a simple increase or addition, in mathematics, “more” carries a more nuanced and precise significance, depending on the context. This article delves into the multifaceted meaning of “more” in mathematics, exploring its implications in different areas and how it underpins fundamental concepts.

The Fundamental Meaning: Greater Than

At its most basic, “more” in mathematics directly translates to the concept of **“greater than.”** This is the foundational

interpretation that permeates arithmetic, algebra, and even elementary set theory. When we say one number is "more" than another, we are inherently referring to its position on the number line or its relative magnitude.

"Greater Than" in Arithmetic

In arithmetic, the symbol ">" is the ubiquitous representation of "more than." For instance, "5 is more than 3" is mathematically expressed as $5 > 3$. This signifies that 5 has a larger value than 3. This simple comparison is crucial for understanding ordering of numbers, performing inequalities, and solving basic equations. The concept of "more than" allows us to establish a hierarchy among numerical values, which is essential for everything from counting to complex calculations. Think about comparing quantities: if you have more apples than your friend, it means the number of apples you possess is a larger value. This intuitive understanding is formalized by the "greater than" operator.

"More Than" in Inequalities

Inequalities are mathematical statements that compare two expressions using symbols like $>$, $<$, $\geq$, and $\leq$. The phrase "more than" is directly represented by the ">" symbol. For example, the inequality " $x > 5$ " means that the variable 'x' can represent any number that is greater than 5. This concept is vital for defining ranges of values, setting constraints in problem-solving, and understanding functions. It allows us to express conditions and relationships between variables that are not necessarily fixed values. The ability to work with "more than" inequalities opens up a world of possibilities in algebraic manipulation and theoretical mathematics. This includes understanding open intervals on the number line, a fundamental concept in calculus and analysis. The phrase "more

than" is the very essence of this comparison.

"More Than" in Comparisons of Quantities

Beyond abstract numbers, "more" is used to compare discrete or continuous quantities. If a recipe calls for "more flour than sugar," it implies a quantitative comparison. In a scientific context, "more of substance A was produced than substance B" signifies a higher yield or quantity. This practical application of "more than" bridges the gap between abstract mathematical concepts and real-world scenarios. It's about relative amounts, not just numerical values. This can involve counting objects, measuring lengths, or weighing masses. The understanding of "more" in these contexts is crucial for practical decision-making and analysis.

Beyond Simple Magnitude: "More" in Set Theory and Logic

While "greater than" is the most common interpretation, the word "more" can also allude to other mathematical concepts, particularly in the realms of set theory and logic. Here, "more" might not always refer to numerical value but to other forms of abundance or inclusion.

Cardinality: More Elements in a Set

In set theory, "more" can refer to the *cardinality* of a set, which is the number of elements it contains. If set A has more elements than set B, it means the cardinality of A is greater than the cardinality of B. For example, the set {apple, banana, cherry} has 3 elements, while the set {dog, cat} has 2 elements. Therefore, the first set has "more" elements. This concept extends to infinite sets, where the notion of "more" becomes more complex, leading to the study of transfinite numbers and the groundbreaking work of Georg Cantor. Understanding

cardinality is fundamental to grasping the size of collections, whether finite or infinite. It's not just about ordering numbers but about the very count of items within a defined group. The phrase "more elements" directly relates to this concept of cardinality.

"More Than" in Probability and Statistics

In probability and statistics, "more" often relates to likelihood or frequency. If the probability of event A is greater than the probability of event B, we say that event A is "more likely" to occur than event B. Similarly, in statistics, a dataset might show that "more" instances fall within a certain range, indicating a higher frequency or a greater concentration of data points. This is a crucial aspect of data analysis and making informed predictions. The word "more" here directly impacts our understanding of statistical significance and the interpretation of data trends. It informs decisions in fields ranging from market research to medical diagnostics. The phrase "more likely" encapsulates this probabilistic interpretation.

"More Than" in Logical Statements

In formal logic, while not a direct operator, the concept of "more" can be implicitly understood in statements of implication or quantification. For instance, if a statement implies "If P, then Q," and P is true, then Q must also be true. One could informally say that Q is "more" guaranteed to be true given the truth of P. Similarly, when dealing with quantifiers like "for all" ($\forall$) and "there exists" ($\exists$), the concept of "more" can be considered in terms of the scope or the number of instances an assertion applies to. While not a formal definition, the intuitive understanding of abundance or certainty can be linked to "more." The phrase "more than" in a logical context can imply a stronger assertion or a broader scope of applicability.

The Role of "More" in Advanced Mathematics

As mathematics progresses to higher levels, the concept of "more" continues to be relevant, often in more abstract and generalized forms. These interpretations build upon the foundational understanding of "greater than" and cardinality.

"More Than" in Calculus: Limits and Convergence

In calculus, the idea of "more" becomes critical when discussing limits and convergence. For example, when we say a sequence converges to a limit L , it means that the terms of the sequence get "arbitrarily close" to L . This "arbitrarily close" can be interpreted as being "more and more" like L . More formally, for any positive epsilon (ϵ), there exists an N such that for all $n > N$, the absolute difference $|a_n - L| < \epsilon$. Here, "more than N " signifies that after a certain point, the terms are closer to the limit than any chosen small value. Similarly, when discussing the growth of functions, we might say one function grows "more rapidly than another," implying a faster rate of increase. This involves comparing rates of change and understanding the asymptotic behavior of functions. The phrase "more than N " is a direct representation of this increasing proximity.

"More Than" in Abstract Algebra and Topology

In abstract algebra and topology, the concept of "more" can be generalized to notions of substructures, embeddings, or properties. For instance, in group theory, a subgroup is a "smaller" structure within a larger group. Conversely, a group can contain "more" elements or possess "more" operations than its subgroups. In topology, the concept of density can be thought of as one set having "more" points in a given region than another. These are more abstract interpretations, but they still relate to a comparative abundance or inclusion. The idea of

one object containing "more" of a certain characteristic or element than another is a recurring theme. For example, a vector space might have "more" dimensions than a subspace.

"More Than" in Order Theory

Order theory, a branch of mathematics that deals with the formalization of the intuitive notion of order, uses the concept of "more" extensively through various order relations. These relations, like "less than or equal to" ($\leq$) or "precedes" ($\sqsubset$), are fundamental to defining structures where elements can be compared. The existence of "more" elements in a particular ordering implies a richer or more extensive structure. This can range from simple linear orders to complex partial orders found in many areas of computer science and logic. The concept of a "maximal element" implies there are no elements that are "more" than it in the defined order.

Conclusion: The Ubiquity of "More" in Mathematics

In conclusion, the word "more" in mathematics is far from a simple synonym for "increase." It is a versatile term that embodies fundamental concepts such as **greater than, increased quantity, higher cardinality, greater likelihood, and increased proximity or complexity.** Whether in the elementary comparisons of arithmetic, the intricate logic of advanced calculus, or the abstract structures of topology, the meaning of "more" is context-dependent yet consistently serves to delineate relationships of comparison, abundance, and progression. Understanding these nuances is crucial for a deeper appreciation of mathematical language and its power to precisely describe the world around us. The word "more," therefore, is a cornerstone of mathematical reasoning, enabling us to quantify, compare, and understand the vastness and interconnectedness of mathematical ideas.

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Educators also benefit from digital resources. Sharing or recommending downloadable materials simplifies lesson planning and supports remote or blended learning

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Questions & Answers About what does the word more mean in math

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1	When a math problem says 'find more of something,' what does 'more' actually mean?	In math, 'more' typically signifies addition. It means you're looking for a quantity that is increased by a certain amount, so you'll likely need to add numbers together.
2	If I have 5 apples and someone gives me 'more' apples, how do I figure out how many I have now?	The word 'more' implies you're adding to your original amount. To find out how many apples you have now, you would add the number of new apples to the original 5.
3	What's the difference between 'more than' and 'greater than' in math?	They are essentially the same concept. 'More than' and 'greater than' both indicate a larger quantity or value. For example, 7 is 'more than' 5, and 7 is 'greater than' 5.
4	When comparing numbers, what does 'which is more' mean?	When asked 'which is more,' you're being asked to identify the larger of two or more numbers. You're looking for the number with the highest value.
5	If a recipe calls for 'more sugar,' does that mean I should double it?	Not necessarily. 'More sugar' in a recipe is usually about adjusting the amount to your taste. Mathematically, it implies adding an unspecified but positive amount of sugar, rather than a specific multiplication like doubling.
6	How does 'more' relate to inequalities in math?	'More than' is directly represented by the greater than symbol '>'. For instance, 'x is more than 10' is written as $x > 10$.
7	Can 'more' ever mean subtraction in math?	No, 'more' itself inherently means an increase or a larger quantity. If the context involves finding the *difference* to see how much *more* one thing is than another, then subtraction is used to find that amount, but the word 'more' itself still refers to the larger quantity.
8	If a problem says 'get 3 more points,' what mathematical operation should I use?	You should use addition. 'Get 3 more points' means you are adding 3 points to your current score or to a base score.

meaning of more in math, what does more mean in algebra, interpretation of more in mathematics, understanding more in mathematical contexts, math definition of more, significance of more in equations, how to interpret more in math problems, role of more in numerical expressions, mathematics explanation of more, more in arithmetic and algebra

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