

What Does Multiply Mean In Math

Decoding the Power of Multiplication: Unveiling Its Mathematical Majesty Multiplication, a fundamental arithmetic operation, forms the bedrock of countless mathematical concepts and practical applications. From calculating the cost of multiple items to understanding complex scientific formulas, mastering multiplication is crucial. This in-depth exploration delves into the meaning of multiplication, its significance in various fields, and provides a comprehensive understanding of this powerful mathematical tool.

Understanding the Essence of Multiplication

The Intuitive Explanation

Multiplication, at its core, is a shorthand for repeated addition. Instead of adding a number to itself multiple times, multiplication provides a faster and more concise method. Imagine you want to find the total cost of 3 apples, each costing \$2. Instead of calculating $\$2 + \$2 + \$2$, you can simply multiply $3 \times \$2 = \6 . This streamlined approach is particularly useful when dealing with larger numbers.

The Formal Definition

Mathematically, multiplication is defined as the repeated addition of a given number. The product of two numbers 'a' and 'b' (represented as $a \times b$ or $a * b$) is the result of adding 'a' to itself 'b' times.

Key Components of Multiplication

- **Multiplier:** The number being multiplied. In the example above, 3 is the multiplier.
- **Multiplicand:** The number being multiplied by. In the example above, 2 is the multiplicand.
- **Product:** The result of the multiplication. In the example above, \$6 is the product.

Benefits of Understanding Multiplication

Understanding the concept of multiplication unlocks numerous benefits, impacting various aspects of our lives.

- **Enhanced Calculation Speed:** Multiplication dramatically speeds up calculations, particularly with large numbers. It's a crucial time-saving technique in daily routines, business, and scientific research.
- **Solving Real-World Problems:** From calculating area and volume to determining the cost of multiple items, multiplication is an indispensable tool for tackling numerous everyday problems.
- **Foundation for Further Mathematical Concepts:** Multiplication serves as a building block for more advanced mathematical concepts, including division, fractions, and decimals. A solid grasp of multiplication is essential for success in higher-level mathematics.
- **Improved Problem-Solving Skills:** Mastering multiplication strengthens analytical and problem-solving abilities. Recognizing patterns and relationships through multiplication enhances logical thinking.

Real-World Applications of Multiplication

Multiplication transcends abstract mathematics and finds practical applications in various fields.

multiplication unlocks a world of opportunities for problem-solving, enhanced understanding, and expanded knowledge.

Frequently Asked Questions

1. What is the difference between multiplication and division? Multiplication involves combining equal groups, while division involves separating a group into equal parts. They are inverse operations. 2. Why is memorizing multiplication tables important? Memorization of multiplication tables facilitates faster calculations and lays the groundwork for success in advanced mathematical concepts. 3. How can multiplication be used in real-life situations? Multiplication has wide-ranging applications in commerce, finance, engineering, and daily life scenarios such as calculating totals, discounts, areas, and volumes. 4. *How do you explain multiplication to a child?* Use visual aids, real-world examples (like grouping candies), and repeated addition to illustrate the concept in a simple and relatable way. 5. *How does multiplication relate to other mathematical operations like addition and subtraction?* Multiplication is an extension of addition, and division is its inverse operation. This comprehensive exploration aims to clarify the profound meaning and significance of multiplication in the realm of mathematics. By understanding its intricacies, one can unlock its vast potential across numerous disciplines.

What Does Multiply Mean in Math? Unpacking the Power of Multiplication

Ever found yourself staring at that little 'x' symbol in a math problem and wondered, "What does multiply *really* mean?" You're not alone! Multiplication is one of those fundamental mathematical operations that we encounter from a young age, but its true meaning and versatility are sometimes overlooked. It's more than just a shortcut for repeated addition; it's a powerful tool that helps us understand relationships, scale quantities, and solve a vast array of problems, from calculating the ingredients for a party-sized batch of cookies to understanding complex scientific formulas. So, let's dive deep into the world of multiplication and unpack what it truly signifies in the realm of mathematics.

Multiplication: The Speedy Cousin of Repeated Addition

At its core, multiplication is a shorthand for repeated addition. Imagine you have 3 groups of cookies, and each group has 5 cookies. Instead of adding $5 + 5 + 5$, which equals 15, you can simply multiply 3 groups by 5 cookies per group: $3 \times 5 = 15$. This concept is incredibly important because it allows us to deal with larger numbers much more efficiently. Think about counting the number of individual squares on a checkerboard. It has 8 rows of 8 squares. Adding $8 + 8 + 8 + 8 + 8 + 8 + 8 + 8$ would take a while! But with multiplication, we can quickly calculate $8 \times 8 = 64$. This repeated addition concept forms the bedrock of understanding what multiplication means.

The Language of Multiplication: Terms and Symbols

Before we go further, let's get acquainted with the lingo. When we multiply, we use specific terms and symbols:
* **Factors:** These are the numbers being multiplied together. In our cookie example ($3 \times 5 = 15$), 3 and 5 are the factors.
* **Product:** This is the result of the multiplication. In $3 \times 5 = 15$, 15 is the product.
* **The Multiplication Symbol:** While the 'x' is the most common symbol taught initially, you'll also see other ways to represent multiplication:
* **A Dot (•):** In algebra and higher math, a dot is often used to avoid confusion with the variable 'x'. For instance, $3 \cdot 5$.
* **Parentheses:** When dealing with variables or groups of numbers, parentheses indicate

multiplication. For example, $3(5)$ or $(3)(5)$. * **Variables:** In algebraic expressions, simply placing variables next to each other implies multiplication, like xy meaning x multiplied by y . Understanding these terms and symbols is crucial for deciphering mathematical expressions and grasping the meaning of multiplication in various contexts.

Beyond Addition: Multiplication as Scaling and Area

While repeated addition is a great starting point, the meaning of multiplication expands significantly as we encounter more complex scenarios.

Multiplication as Scaling

Multiplication can also be viewed as scaling. When you multiply a number by another number, you are essentially making it larger or smaller by a certain factor. * **Scaling Up:** Multiplying by a number greater than 1 makes the original quantity larger. If you have 2 apples and you decide to multiply that by 3 (meaning you want 3 times as many), you'll end up with 6 apples. This is scaling up. * **Scaling Down:** Multiplying by a fraction or a decimal between 0 and 1 makes the original quantity smaller. If you have 10 cookies and you multiply that by 0.5 (or $\frac{1}{2}$), you're essentially finding half of the cookies, which is 5 cookies. This is scaling down. This concept of scaling is vital in many real-world applications, such as map reading (where distances are scaled down) or engineering (where models are scaled up).

Multiplication and Area

Another powerful way to visualize multiplication is through the concept of area. Consider a rectangle. The area of a rectangle is found by multiplying its length by its width. If a rectangle is 4 units long and 3 units wide, its area is $4 \times 3 = 12$ square units. This visually represents multiplication as filling a space. You can imagine drawing a grid of 4 columns and 3 rows within the rectangle, and each of the 12 squares represents one unit of area. This geometric interpretation helps solidify the understanding of multiplication, especially when dealing with two-dimensional shapes and later, volumes in three dimensions.

Properties of Multiplication: The Rules of the Game

Like any good game, multiplication has its own set of rules or properties that make calculations predictable and often easier. Understanding these properties is key to mastering multiplication.

The Commutative Property of Multiplication

This property states that the order in which you multiply two numbers does not change the product. So, 3×5 is the same as 5×3 . Both equal 15. This is a lifesaver when you're trying to find the product of two numbers. If you find 5×3 easier to calculate in your head, you can use the commutative property to know that 3×5 will have the same answer.

The Associative Property of Multiplication

When you are multiplying three or more numbers, the associative property tells us that you can group the numbers in any way you want without changing the product. For example, $(2 \times 3) \times 4$ is the same as $2 \times (3 \times 4)$. $(2 \times 3) \times 4 = 6 \times 4 = 24$ * $2 \times (3 \times 4) = 2 \times 12 = 24$ This property is particularly useful when dealing with larger multiplication problems, allowing you to break them down into smaller, more manageable steps.

The Distributive Property of Multiplication

This is a powerhouse property that connects multiplication and addition (or subtraction). It states that multiplying a sum (or difference) by a number is the same as multiplying each addend (or subtrahend) by the number and then adding (or subtracting) the results. For example: $3 \times (2 + 4) = (3 \times 2) + (3 \times 4) = 6 + 12 = 18$. The distributive property is incredibly important in algebra, where it's used to simplify expressions and solve equations. It allows us to "distribute" the multiplication over the terms within the parentheses.

The Identity Property of Multiplication

Every operation has an identity element, and for multiplication, that element is 1. The identity property states that when you multiply any number by 1, the result is that original number. For example, $7 \times 1 = 7$, and $1 \times 100 = 100$. This means that multiplying by 1 doesn't change the value of a number.

The Property of Zero

This is a simple but critical property: anything multiplied by zero is zero. For example, $9 \times 0 = 0$, and $0 \times 55 = 0$. This property has significant implications in various mathematical contexts.

Why is Multiplication So Important? Real-World Applications

The meaning of "multiply" extends far beyond the classroom. It's a fundamental concept that underpins countless real-world applications:

- Shopping:** Calculating the total cost of buying multiple items of the same price (e.g., 5 shirts at \$20 each is $5 \times \$20 = \100).
- Cooking and Baking:** Scaling recipes up or down for different numbers of servings. Doubling a recipe requires multiplying all ingredient quantities by 2.
- Budgeting and Finance:** Estimating income over time, calculating interest, and managing expenses. If you earn \$15 per hour, working 40 hours a week means you earn $15 \times 40 = \$600$ per week.
- Measurement and Geometry:** Calculating areas, volumes, and perimeters of shapes.
- Science and Engineering:** Scaling formulas, calculating rates, and understanding proportions in experiments and designs.
- Computer Science:** Multiplication is a fundamental operation used in algorithms and data processing. Essentially, anytime you need to find a total quantity based on a rate or a repeated amount, you're likely using multiplication. Understanding what it means to multiply allows us to make informed decisions, solve problems efficiently, and understand the world around us more deeply.

Mastering Multiplication: Tips and Tricks

While the concept of multiplication is straightforward, mastering its various aspects can take practice. Here are a few tips:

- Memorize Multiplication Tables:** Knowing your basic multiplication facts (up to 10×10 or 12×12) is crucial for fluency. Flashcards, games, and practice apps can be very helpful.
- Understand the Concepts:** Don't just memorize. Understand *why* multiplication works through repeated addition, scaling, and area.
- Practice Regularly:** Consistent practice is key to solidifying your understanding and improving your speed and accuracy.
- Use Visual Aids:** Drawing arrays, grids, or using manipulatives can help visualize multiplication.
- Break Down Larger Problems:** For bigger numbers, learn strategies like breaking them down into smaller parts using the distributive property.
- Check Your Work:** Use estimation or the commutative property to double-check your answers.

Conclusion: The Enduring Power of Multiplication

So, what does multiply mean in math? It means a powerful operation that efficiently represents repeated addition, allows us to scale quantities, and helps us understand geometric concepts like area. It's a foundational skill that unlocks a deeper understanding of mathematics and its countless applications in our daily lives. From the simplest calculations to the most complex scientific endeavors, the meaning and application of multiplication are truly profound. By understanding its core

principles and properties, you equip yourself with a tool that will serve you well in all your mathematical journeys. Keep practicing, keep exploring, and embrace the power of multiplication!

Understanding "Multiply" in Mathematics: A Foundational Concept

Multiplication in mathematics is far more than a simple arithmetic operation—it represents a powerful and versatile mathematical process that combines quantities to determine total size, rate, or size per unit. At its core, multiplying two numbers means adding a number to itself a specified number of times. For instance, 4 multiplied by 3 (written as 4×3) reflects the sum of four added three times: $4 + 4 + 4$, resulting in 12. This foundational idea extends beyond basic addition into diverse applications across science, finance, engineering, and everyday problem-solving.

The Mathematical Essence of Multiplication

From a formal standpoint, multiplication is both a binary operation and a shortcut for repeated addition. It transforms abstract numbers into measurable outcomes by scaling one quantity by another. This scaling property enables efficient computation and supports complex calculations in algebra, geometry, and beyond. Consider a rectangle's area: multiplying its length by its width yields the total surface area, illustrating how multiplication directly relates geometric dimensions to measurable space. Similarly, in proportional reasoning, multiplying helps solve ratios and fractions, allowing for comparisons and conversions that underpin scientific measurements and financial modeling.

Real-World Applications and Practical Benefits

The utility of multiplication spans countless real-world contexts. In business, it supports revenue forecasting by multiplying unit prices by expected sales volumes. In physics, it calculates force (mass times acceleration), energy (power over time), and density (mass divided by volume, rooted in multiplication principles). Education relies on multiplication to build numerical fluency, enabling students to tackle larger numbers, understand place value, and develop logical thinking. Its role in digital technology is equally critical—computers process data through binary multiplication, underpinning everything from simple arithmetic in apps to complex algorithms in artificial intelligence.

Looking Ahead: The Evolving Role of Multiplication

As technology advances, the concept of multiplication continues to evolve. While human-driven calculation remains vital, machine learning and quantum computing explore new frontiers, such as tensor multiplication in neural networks and high-dimensional data analysis. Yet, the fundamental principles of multiplying remain unchanged—enhancing precision, efficiency, and insight. Educators and learners alike recognize that mastering multiplication is not just about memorizing tables but about developing a deeper understanding of relationships between numbers. This comprehension empowers individuals to innovate, solve complex problems, and navigate the increasingly data-driven world with confidence. In essence, multiplication is a cornerstone of mathematical thinking—simple in form yet profound in impact. It bridges abstract concepts with tangible results, enabling progress across disciplines and shaping how we interpret and interact with the world.

What Does Multiply Mean in Math? A Comprehensive Exploration

In the vast landscape of mathematics, certain operations form the bedrock upon which complex concepts are built. Among these fundamental pillars, multiplication stands out as a powerful and versatile tool. But what precisely does "multiply" mean in math? Far from being a simple shorthand for repeated addition, multiplication is a sophisticated operation with a rich tapestry of meanings, applications, and underlying principles. This article delves deep into the essence of multiplication, exploring its core definition, its various interpretations, its significance across different mathematical domains, and its practical utility in the real world.

Understanding the Core Concept: Repeated Addition

At its most basic, multiplication is a concise way of expressing repeated addition. When we see an expression like " 3×4 ," it signifies adding the number 4 to itself 3 times.

$$3 \times 4 = 4 + 4 + 4 = 12$$

Similarly, " 5×2 " means adding 2 to itself 5 times:

$$5 \times 2 = 2 + 2 + 2 + 2 + 2 = 10$$

This foundational understanding is crucial for grasping the concept, especially for young learners encountering multiplication for the first time. The "multiplicand" (the number being multiplied) represents the quantity being added repeatedly, and the "multiplier" (the number doing the multiplying) indicates how many times that quantity is added. The result is known as the "product."

The Properties of Multiplication

The efficiency of multiplication as repeated addition is further enhanced by its inherent properties, which govern how it interacts with other numbers and operations. These properties are not just abstract rules; they are the silent architects of mathematical consistency and enable us to simplify calculations and solve problems more effectively.

The Commutative Property of Multiplication

This property states that the order of the factors does not affect the product. In simpler terms, " $a \times b$ " is always equal to " $b \times a$."

Example: $3 \times 4 = 12$, and $4 \times 3 = 12$.

This property is incredibly useful because it allows us to switch the order of numbers to make multiplication easier. For instance, multiplying 7×12 might seem more daunting than multiplying 12×7 , but the commutative property guarantees they yield the same result.

The Associative Property of Multiplication

The associative property deals with how numbers are grouped when performing multiplication with three or more factors. It states that the way factors are grouped in a multiplication problem does not change the final product. Mathematically, " $(a \times b) \times c$ " is equal to " $a \times (b \times c)$."

Example: $(2 \times 3) \times 4 = 6 \times 4 = 24$, and $2 \times (3 \times 4) = 2 \times 12 = 24$.

This property is particularly helpful when dealing with larger numbers or when breaking down complex multiplication problems into smaller, more manageable steps.

The Distributive Property of Multiplication

The distributive property is a powerful link between multiplication and addition (or subtraction). It states that multiplying a sum (or difference) by a number is the same as multiplying each addend (or subtrahend) by that number and then adding (or subtracting) the results. Mathematically, " $a \times (b + c)$ " is equal to " $(a \times b) + (a \times c)$."

Example: $3 \times (4 + 2) = 3 \times 6 = 18$. Using the distributive property: $(3 \times 4) + (3 \times 2) = 12 + 6 = 18$.

The distributive property is fundamental to algebraic manipulation and is the basis for many calculation shortcuts, such as multiplying a two-digit number by a single digit.

The Identity Property of Multiplication

The identity property states that any number multiplied by 1 remains unchanged. The number 1 is known as the multiplicative identity. Mathematically, " $a \times 1 = a$ " and " $1 \times a = a$."

Example: $7 \times 1 = 7$, and $1 \times 15 = 15$.

This property might seem trivial, but it plays a critical role in proofs and in understanding the multiplicative inverse.

The Property of Zero

A crucial property of multiplication is that any number multiplied by zero results in zero. Mathematically, " $a \times 0 = 0$ " and " $0 \times a = 0$."

Example: $9 \times 0 = 0$, and $0 \times 25 = 0$.

This property is essential for understanding the behavior of numbers in algebraic equations and for solving problems involving zero.

Beyond Repeated Addition: Deeper Meanings of Multiplication

While repeated addition is the foundational concept, the meaning of multiplication extends to encompass more abstract and sophisticated ideas as mathematical complexity increases.

Scaling and Proportionality

Multiplication can be understood as a scaling operation. When we multiply a quantity by a factor greater than 1, we are increasing its size. When we multiply by a factor between 0 and 1, we are decreasing its size.

Example: If you have 5 apples and you "multiply" them by 2, you get 10 apples. You've scaled your apple collection by a factor of 2.

Example: If a recipe calls for 1 cup of flour and you decide to make half the recipe, you multiply the flour amount by 0.5, resulting in 0.5 cups of flour.

This concept of scaling is vital in understanding ratios, proportions, and scale models.

Area and Geometric Interpretation

In geometry, multiplication takes on a visual and spatial meaning, particularly in calculating the area of rectangles. The area of a rectangle is found by multiplying its length by its width.

Consider a rectangle with a length of 5 units and a width of 3 units. Its area is $5 \text{ units} \times 3 \text{ units} = 15 \text{ square units}$. This can be visualized as arranging 15 individual unit squares within the rectangle.

This geometric interpretation helps solidify the concept of multiplication as a way to measure two-dimensional space.

Combinatorics and Counting Possibilities

Multiplication plays a pivotal role in combinatorics, the branch of mathematics dealing with counting, arrangement, and combination of objects. The multiplication principle (or fundamental counting principle) is used to determine the total number of possible outcomes when there are multiple independent choices.

Example: If you have 3 shirts and 2 pairs of pants, the total number of different outfits you can create is $3 \times 2 = 6$. Each shirt can be paired with each pair of pants.

This principle is fundamental to probability and statistics.

Abstract Algebra and Group Theory

In more advanced mathematics, multiplication can represent various binary operations within abstract structures like groups, rings, and fields. While the symbol " $\times$ " or " $\cdot$ " is commonly used, it might not always represent standard arithmetic multiplication. Instead, it signifies a defined operation that combines two elements of the set to produce another element within the same set, adhering to specific axioms.

The Significance of Multiplication in Mathematics and Beyond

Multiplication is not merely an academic exercise; it is a fundamental operation that permeates virtually every aspect of mathematics and has profound real-world applications.

Foundation for Advanced Mathematics

Without a solid understanding of multiplication, it is impossible to progress in mathematics. Concepts like division (which is the inverse operation of multiplication), fractions, decimals, algebra, calculus, and statistics all rely heavily on the principles of multiplication.

Problem-Solving Tool

The ability to multiply efficiently is a critical problem-solving skill. Whether calculating the total cost of multiple items, determining the area of a room, or understanding the growth of investments, multiplication provides a direct path to the solution.

Real-World Applications

The applications of multiplication are ubiquitous: **Finance:** Calculating interest, profit, loss, and total expenses. **Science:** Determining distances, speeds, energy, and chemical reaction rates. **Engineering:**

Designing structures, calculating loads, and analyzing forces. * **Everyday Life:** Scaling recipes, budgeting, shopping, and measuring.

Conclusion

In essence, "what does multiply mean in math" is a question that unlocks a world of understanding. It begins with the intuitive concept of repeated addition but blossoms into a powerful tool for scaling, measuring, counting, and abstract reasoning. From the elementary school classroom to the cutting edge of scientific research, multiplication remains an indispensable operation, a testament to its fundamental importance in the language of numbers and the exploration of our universe. Mastering multiplication is not just about memorizing tables; it's about grasping a core mathematical concept that empowers us to understand and interact with the world around us more effectively.

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Self-directed learning thrives in this environment. Readers choose their pace, their focus, and their depth of engagement. Some may read cover to cover, while others return to specific sections as needed. This flexibility respects individual learning styles and encourages sustained interest over time.

Critical thinking also benefits from digital accessibility. When multiple resources are easily available, readers can compare ideas, question assumptions, and develop informed perspectives. Engaging with *What Does Multiply Mean In Math* alongside other materials fosters analytical skills and deeper understanding, which are essential in both academic and professional contexts.

Digital formats encourage exploration across disciplines. A reader interested in one topic can quickly branch into related areas, discovering connections that might otherwise remain hidden. This freedom supports creativity and innovation, as ideas often emerge at the intersection of different fields.

For students, downloadable books provide practical advantages. Offline access ensures uninterrupted study, while annotation tools simplify note-taking and revision. Digital organization makes it easier to manage multiple subjects and materials, reducing stress and improving focus.

Educators also benefit from digital availability. Sharing resources becomes simpler, and materials can be updated or supplemented without logistical challenges. Access to *What Does Multiply Mean In Math* allows instructors to adapt content to different learning environments, including remote and hybrid settings.

Accessibility is another important consideration. Digital readers often include features such as adjustable text size, night mode, and text-to-speech options. These tools help accommodate diverse learning needs, ensuring that *What Does Multiply Mean In Math* remains accessible to a broader audience.

Environmental impact adds another dimension to digital learning. While technology is not without cost, distributing content digitally often requires fewer physical resources than printing and shipping books. Over time, this approach contributes to more sustainable knowledge sharing.

Organization also improves with digital libraries. Files can be categorized, backed up, and retrieved instantly. Readers can build personal collections that grow without clutter, making it easier to revisit *What Does Multiply Mean In Math* whenever needed.

Perhaps most importantly, digital access changes how people feel about learning. When information is easy to reach, curiosity feels welcome rather than inconvenient. Readers are more likely to explore new ideas, return to old interests, and continue learning simply because the barriers are low.

In the end, downloading *What Does Multiply Mean In Math* represents more than a technological convenience. It reflects a shift toward accessible, flexible, and thoughtful learning. When used responsibly through trusted platforms, digital books become reliable companions—supporting curiosity, critical thinking, and continuous personal growth in a world that never stops changing.

Questions & Answers About what does multiply mean in math

No	Question	Answer
1	What's the simplest way to explain multiplication?	Multiplication is essentially repeated addition. When you multiply two numbers, you're adding the first number to itself a certain number of times, indicated by the second number.
2	When do we use multiplication in everyday life?	We use multiplication all the time! Examples include calculating the total cost of multiple items, figuring out how many servings are in several boxes of snacks, or determining the area of a rectangular space.
3	What are the key terms in a multiplication problem?	The numbers being multiplied are called 'factors,' and the result of the multiplication is called the 'product'.
4	Is multiplication the same as addition?	No, they are different operations. Addition combines quantities, while multiplication is a shortcut for adding the same quantity multiple times.
5	What does it mean when we say 'multiply by 2'?	Multiplying by 2 means you're doubling the number. You're adding the number to itself once (e.g., 3×2 is $3 + 3$).
6	How does multiplication relate to division?	Multiplication and division are inverse operations. If $a \times b = c$, then $c \div a = b$ and $c \div b = a$. They 'undo' each other.
7	What's a common mistake people make when learning multiplication?	A common mistake is confusing multiplication with addition, or simply memorizing facts without understanding the underlying concept of repeated addition.
8	Why is understanding multiplication important for other math concepts?	Multiplication is fundamental for many other math topics like fractions, decimals, algebra, and calculating percentages. A strong grasp of it makes learning these more advanced concepts much easier.
9	Can we multiply fractions and decimals, and what does it mean then?	Yes! Multiplying fractions involves multiplying numerators and denominators. Multiplying decimals involves multiplying the numbers as whole numbers and then placing the decimal point in the correct position in the product. It still represents combining quantities, but in a more complex form.

10	What's the 'commutative property' of multiplication?	The commutative property means that the order of the factors doesn't change the product. So, 3×5 is the same as 5×3 , both equaling 15.
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