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What is the order operations

In math, order of operations are the rules that state the sequence in which the multiple operations in an expression should be solved. A way to remember the order of the operations is PEMDAS, where in each letter stands for a mathematical operation. P Parentheses E Exponent M Multiplication D Division A Addition S Subtraction The PEMDAS rules that state the order in which the operations in an expression should be solved, are: 1. Parentheses - They take precedence over all other operators. The first step is to solve all the operations within the parentheses. Work out all groupings from inside to out. (Whatever is in parentheses is a grouping) 2. Exponents - Work out all the exponential expressions. 3. Multiplication and Division - Next, moving from left to right, multiply and/or divide whichever comes first. 4. Addition and Subtraction - Lastly, moving from left to right, add and/or subtract whichever comes first. Why Follow Order of Operations? Follow the rules of the order of operations to solve expressions so that everyone arrives at the same answer. Here's an example of how we can get different answers if the correct order of operations is NOT followed. Expression solved from Left to RightExpression solved using Order of Operations (PEMDAS)6 x 3 + 4 x (9 + 3)6 X 3 + 4 x (9 + 3)18 + 4 x (9 + 3)22 x (9 + 3)198 + 3= 66 **6** x 3 + 4 x (9 + 3)6 X 3 + 4 x (9 + 3) X 3 + 4 x 3 - M18 + 4 x 3 - M18 + 12 - A= 30 **6** Fun Fact:A popular mnemonic used to remember the order of operations -PEMDAS is 'Please Excuse My Dear Aunt Sally'. Let's sing! It's all really about the operations. Solve in order, else there'll be tensions. Start by opening the Parentheses,Jump up with the Exponents,Cube or Square - it's all very fair!Next, Multiply or Divide - jus' go left to right,Add or Subtract come last but they're easy,finally, it's as simple as A B C D! Let's do it! Instead of handing out practice worksheets to your child, form word problems from real life situations. This will help them write and solve expressions and use the order of operations to simplify expressions in pre-algebra and algebra. For instance, take your child out for shopping, Ask them to pick out 2 dozen eggs, 3 packets of hot dog buns, 2 packets of candy and 2 boxes of cereal. Then, ask them to put one box of cereal back. Now, ask your child the number of eggs in a dozen, number of buns in a packet, number of candies in a packet and calculate the total number of items bought. Ask them to form an expression and use the order of operations to find the answer. Expression Frequently Asked Question's What do you mean by order of operations in math? In math, order of operations is the rules of the sequence in which the multiple operations in an expression should be solved. Why do we follow the order of operations in math? In math, we follow the order of operations rules to solve expressions so that everyone arrives at the same correct answer. PEMDAS is a way to remember the order of the operations, where each letter stands for a mathematical operation. P stands for Parentheses, E stands for Exponent, M stands for Multiplication, D stands for Division, A stands for Addition, and S stands for Subtraction. If there are two or more operations in a single expression, the order of the letters in PEMDAS tells what to calculate first, second, third, and so on until the calculation is complete. How do we solve 2 + 3 x 4? 2 + 3 x 4 is 14. According to the PEMDAS rule, we multiply before adding. So the first step in solving 2 + 3 x 4 is to multiply 3 by 4, and then add 2 to the product. So, 2 + 3 x 4 = 2 + 12 = 14. Order in which mathematical operations are performed In mathematics and computer programming, the order of operations (or operator precedence) is a collection of rules that reflect conventions about which procedures to perform first in order to evaluate a given mathematical expression. For example, in mathematics and most computer languages, multiplication is granted a higher precedence than addition, and it has been this way since the introduction of modern algebraic notation.[1][2] Thus, the expression 1 + 2 × 3 is interpreted to have the value 1 + (2 × 3) = 7, and not (1 + 2) × 3 = 9. When exponents were introduced in the 16th and 17th centuries, they were given precedence over both addition and multiplication, and could be placed only as a superscript to the right of their base.[1] Thus 3 + 52 = 28 and 3 × 52 = 75. These conventions exist to eliminate notational ambiguity, while allowing notation to be as brief as possible. Where it is desired to override the precedence conventions, or even simply to emphasize them, parentheses () can be used. For example, (2 + 3) × 4 = 20 forces addition to precede multiplication, while (3 + 5)2 = 64 forces addition to precede exponentiation. If multiple pairs of parentheses are required in a mathematical expression (such as in the case of nested parentheses), the parentheses may be replaced by brackets or braces to avoid confusion, as in [2 × (3 + 4)] − 5 = 9. Definition The order of operations, which is used throughout mathematics, science, technology and many computer programming languages, is expressed here:[1][3][4] exponentiation and root extraction multiplication and division addition and subtraction This means that if, in a mathematical expression, a subexpression appears between two operators, the operator that is higher in the above list should be applied first. The commutative and associative laws of addition and multiplication allow adding terms in any order, and multiplying factors in any order—but mixed operations must obey the standard order of operations. In some contexts, it is helpful to replace a division with multiplication by the reciprocal (multiplicative inverse) and a subtraction by addition of the opposite (additive inverse). For example, in computer algebra, this allows one to handle fewer binary operations, and makes it easier to use commutativity and associativity when simplifying large expressions (for more, see Computer algebra § Simplification). Thus 3 + 4 = 3 + 1/4; in other words, the quotient of 3 and 4 equals the product of 3 and 1/4. Also 3 − 4 = 3 + (−4); in other words the difference of 3 and 4 equals the sum of 3 and −4. Thus, 1 − 3 + 7 can be thought of as the sum of 1 + (−3) + 7, and the three summands may be added in any order, in all cases giving 5 as the result. The root symbol √ is traditionally prolonged by a bar (called vinculum) over the radicand (this avoids the need for parentheses around the radicand). Other functions use parentheses around the input to avoid ambiguity. [5][6][a] The parentheses can be omitted if the input is a single numerical variable or constant[1] (as in the case of sin x = sin(x) and sin n = sin(n).[a] Another shortcut convention that is sometimes used is when the input is monomial; thus, sin 3x = sin(3x) rather than (sin(3))x, but sin x + y = sin(x) + y, because x + y is not a monomial. This, however, is ambiguous and not universally understood outside of specific contexts.[b] Some calculators and programming languages require parentheses around function inputs, some do not. Symbols of grouping can be used to override the usual order of operations.[1] Grouped symbols can be treated as a single expression.[1] Symbols of grouping can be removed using the associative and distributive laws, also they can be removed if the expression inside the symbol of grouping is sufficiently simplified so no ambiguity results from their removal. Examples 1 + 3 + 5 = 4 + 5 = 2 + 5 = 7.

(

1
+
3
)
+
5

{\displaystyle (\sqrt {1+3})+5}

(

1
+
3
)
+
5

{\displaystyle (\sqrt {1+3})+5}

(

1
+
3
)
+
5

{\displaystyle (\sqrt {1+3})+5}

 For ease in reading, other grouping symbols, such as curly braces { } or square brackets [], are often used along with parentheses (). For example: ((1 + 2) + (3 + 4)) + 5 = (3 + 7) + 5

(

1
+
2
)
+
(

3
+
4
)
)
+
5

{\displaystyle ((1+2)(div (3+4))+5)=(3(div 7)+5)}

 Mnemonics Mnemonics are often used to help students remember the rules, involving the first letters of words representing various operations. Different mnemonics are in use in different countries.[7][8][9] In the United States[10] and in France,[11] the acronym PEMDAS is common. It stands for Parentheses, Exponents, Multiplication/Division, Addition/Subtraction.[10] PEMDAS is often expanded to the mnemonic "Please Excuse My Dear Aunt Sally" in schools.[12] Canada and New Zealand use BEDMAS, standing for Brackets, Exponents, Division/Multiplication, Addition/Subtraction.[10] Most common in the UK, Pakistan, India, Bangladesh and Australia[13] and some other English-speaking countries is BODMAS meaning either Brackets, Order, Division/Multiplication, Addition/Subtraction or Brackets, Of/Division/Multiplication, Addition/Subtraction.[c][14] Nigeria and some other West African countries also use BODMAS. Similarly in the UK, BIDMAS is also used, standing for Brackets, Indices, Division/Multiplication, Addition/Subtraction. These mnemonics may be misleading when written this way.[12] For example, misinterpreting any of the above rules to mean "addition first, subtraction afterward" would incorrectly evaluate the expression [2] a − b + c = (a − b) + c ≠ a − (b + c)

(

a
−
b
)
+
c
≠
a
−
(
b
+
c
)

{\displaystyle a-b+c=(a-b)+c≠a-(b+c)}

 The "Addition/Subtraction" in the mnemonics should be interpreted as that any additions should be performed in order from left to right. Similarly, the expression a + b × c might be read multiple ways, but the "Multiplication/Division" in the mnemonics should mean the multiplication and divisions should be performed from left to right. a ÷ b × c = (a ÷ b) × c ≠ a ÷ (b × c)

(

a
÷
b
)
×
c
≠
a
÷
(
b
×
c
)

{\displaystyle a÷b×c=(a÷b)×c≠a÷(b×c)}

 Additional ambiguities caused by the use of multiplication by juxtaposition and using the slash to represent division are discussed below. In general, the surest way to avoid ambiguity is to use parentheses. Special cases Serial exponentiation If exponentiation is indicated by stacked symbols using superscript notation, the usual rule is to work from the top down.[15][1][6][16] abc = a(bc) which typically is not equal to (abc). This convention is useful because there is a property of exponentiation that (abc) = abc, so it's unnecessary to use serial exponentiation for this. However, when using operator notation with a caret (^) or arrow (↑), there is no common standard.[17] For example, Microsoft Excel and computation programming language MATLAB evaluate a^b^c as (a^b)^c as (a^b)c, but Google Search and Wolfram Alpha as a(b^c). Thus 4^3^2 is evaluated to 4,096 in the first case and to 262,144 in the second case. Unary minus sign There are differing conventions concerning the unary operator − (usually read "minus"). In written or printed mathematics, the expression −32 is interpreted to mean −(32) = −9.[1][18] In some applications and programming languages, notably Microsoft Excel, PlanMaker (and other spreadsheet applications) and the programming language bc, unary operators have a higher priority than binary operators, that is, the unary minus has higher precedence than exponentiation, so in those languages −32 will be interpreted as −(32) = 9.[19] This does not apply to the binary minus operator −; for example in Microsoft Excel while the formulas =−2^2, =(2)^2 and =0+−2^2 return 4, the formula =0−2^2 and =(−2^2) return −4. Mixed division and multiplication In some of the academic literature, multiplication denoted by juxtaposition (also known as implied multiplication) is interpreted as having higher precedence than division, so that 1 + 2n equals 1 + (2n), not (1 + 2)n.[1][7] For example, the manuscript submission instructions for the Physical Review journals state that expressions in the correct order of precedence without a need for parentheses or any possibly model-specific order of execution.[1][2][10] Programming languages Some programming languages use precedence levels that conform to the order commonly used in mathematics,[17] though others, such as APL, Smalltalk, Occam and Mary, have no operator precedence rules (in APL, evaluation is strictly right to left; in Smalltalk, it is strictly left to right). Furthermore, because many operators are not associative, the order within any single level is usually defined by grouping left to right so that 16/4/4 is interpreted as (16/4)/4 = 1 rather than 16/(4/4) = 16; such operators are perhaps misleadingly referred to as "left associative". Exceptions exist; for example, languages with operators corresponding to the cons operation on lists usually make them group right to left ("right associative"), e.g. in Haskell, 1:2:3:4:[] == 1:(2:(3:(4:[]))) == [1,2,3,4]. Dennis Ritchie, creator of the C language, has said of the precedence in C (shared by programming languages that borrow those rules from C, for example, C++, Perl and PHP) that it would have been preferable to move the bitwise operators above the comparison operators.[26] However, many programmers have become accustomed to this order. The relative precedence levels of operators found in many C-style languages are as follows: 1 ()

−
>
<
:
:
 Function call, scope, array/member access 2 ! ~ - + * & sizeof type cast ++ -- (most) unary operators, sizeof and type casts (right to left) 3 * / % MOD Multiplication, division, modulo 4 + - Addition and subtraction 5 > Bitwise shift left and right 6 < >= Comparisons: less-than and greater-than 7 == != Comparisons: equal and not equal 8 & Bitwise AND 9 ^ Bitwise exclusive OR (XOR) 10 | Bitwise inclusive (normal) OR 11 && Logical AND 12 || Logical OR 13 ? : Conditional expression (ternary) 14 = += -= *= /= %= &= |= ^= = Assignment operators (right to left) 15 , Comma operator Examples: (Note: in the examples below, 'm' is used to mean 'is identical to', and not to be interpreted as an actual assignment operator used as part of the example expression.) |A + |B = (A) + (B) ++A + |B = (A) + (B) ++A + |B = (A + B) * C = A + (B * C) A || B && C = A || (B && C) A && B = C = A && (B = C) A & B = C = A & (B = C) Source-to-source compilers that compile to multiple languages need to explicitly deal with the issue of different order of operations across languages. Haxe for example standardizes the order and enforces it by inserting brackets where it is appropriate.[27] The accuracy of software developer knowledge about binary operator precedence has been found to closely follow their frequency of occurrence in source code.[28] See also Common operator notation (for a more formal description) Hyperoperation Operator associativity Operator overloading Operator precedence in C and C++ Polish notation Reverse Polish notation Notes

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 a b Some authors deliberately avoid any omission of parentheses with functions even in the case of single numerical variable or constant arguments (i.e. Oldham in Atlas), whereas other authors (like NIST) apply this notational simplification only conditionally in conjunction with specific multi-character function names (like sin), but don't use it with generic function names (like f).

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 To avoid any ambiguity, this notational simplification for monomials is deliberately avoided in works such as Oldham's Atlas of Functions or the NIST Handbook of Mathematical Functions.

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 "OF" is equivalent to division or multiplication, and commonly used especially at primary school level, as in "Half of fifty".

^
 For example, the third edition of Mechanics by Landau and Lifshitz contains expressions such as hPz/πr (p. 22), and the first volume of the Feynman Lectures contains expressions such as 1/2vN (p. 6–7). In both books, these expressions are written with the convention that the solidus is evaluated last. This also implies that an expression like 8/2(4) has solution 1 as the omission of the multiplication sign (x * or ·) implies that the solidus is evaluated last even if positioned more to the left. References

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