

5th Grade Math Week #1: Operations and Algebraic Thinking

Order of Operations: This can be remembered as the acronym: PEMDAS which can easily be remembered as Please Excuse My Dear Aunt Sally. That phrase stands for Parentheses, Exponents, Multiply, Divide, Add, Subtract. This is the order that we need to solve large math equations. Let's try one:

Example: $8 + (5)(4) - (6 + 10 / 2) + 44$

"P" is the first order. "P" is parentheses. Our parentheses are $(5)(4)$ and $(6 + 10 / 2)$. Let's start with the first one: $(5)(4)$ just means 5×4 which equals 20 Next is: $(6 + 10 / 2)$ with this "D" comes before "A" so we need to divide first: $10 / 2 = 5$ then we "A" (add) $6 + 5 = 11$

So now we are left with $8 + 20 - 11 + 44$ Now we can go left from right. $8 + 20 = 28$ then $28 - 11 = 17$ then lastly: $17 + 44 = 61$

Now we have solved the equation: $8 + (5)(4) - (6 + 10 / 2) + 44 = 61$