Decoding Chemical Formulas
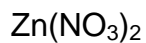
Example:

CO_2

				Total
Elements found in formula	**Carbon**		------------------	**2**
Number of atoms of element	1		------------------	

H_2O

				Total
Elements found in formula			------------------	
Number of atoms of element			------------------	

$Zn(NO_3)_2$

Note: Multiply the subscript outside of the parentheses by everything inside of the parentheses.

				Total
Elements found in formula		**Nitrogen**		**3**
Number of atoms of element		2		9

$Ca(OH)_2$

				Total
Elements found in formula				
Number of atoms of element				

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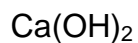
Coefficients

Example:

2CO$_2$

				Total
Elements found in formula	**Carbon**		_____	
Number of atoms of element		4	_____	6

What is the mathematical relationship between coefficients and subscripts?

Write a mathematical expression to show the relationship between the coefficient and subscripts.

_____

4H$_2$O

				Total
Elements found in formula			_____	
Number of atoms of element			_____	

What is the mathematical relationship between coefficients and subscripts?

Write a mathematical expression to show the relationship between the coefficient and subscripts.