

Relative Mass and the Mole

How can atoms be counted using a balance?

Why?

Consider the following equation for a chemical reaction: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$

This can be interpreted as two molecules of hydrogen and one molecule of oxygen combining to form two water molecules. But how often do chemists limit their reactions to one or two molecules? Usually a reaction is done with an unimaginable number of molecules. How then do chemists know they have the right mix? The molecules need to be quickly counted! How do we count molecules? The answer is the unit called the **mole**. This activity will start by considering two egg farmers (a chicken farmer and a quail farmer). They produce such large numbers of eggs that they can't count them all individually, so they count in dozens of eggs in some cases, while in other cases they use mass. Weighing is often easier than counting!

Model 1 – Eggs

Chicken		Quail		Ratio of numbers of eggs	Ratio of masses
Number of eggs in	Mass of the	Number of eggs in	Mass of the		
1	37.44 g	1	2.34 g	1 : 1	16 : 1
10		10			
438		438			
1 dozen		1 dozen			
1 million		1 million			

- Consider the data in Model 1.
 - What is the mass of a standard chicken egg?
 - What is the mass of a standard quail egg?
 - Show mathematically how the 16:1 ratio of masses was calculated in the last column of Model 1.
- Use a calculator to complete the table in Model 1. Divide the work among group members. Reduce all ratios to the lowest whole numbers possible.

Relative Mass And Mole Pogil

David Kirk



Relative Mass And Mole Pogil:

Adopting the Melody of Expression: An Emotional Symphony within **Relative Mass And Mole Pogil**

In some sort of consumed by monitors and the ceaseless chatter of immediate interaction, the melodic beauty and emotional symphony developed by the published word frequently diminish into the back ground, eclipsed by the relentless noise and interruptions that permeate our lives. However, situated within the pages of **Relative Mass And Mole Pogil** a charming literary value overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that charming masterpiece conducts visitors on an emotional journey, well unraveling the hidden tunes and profound affect resonating within each carefully crafted phrase. Within the depths of the moving evaluation, we will discover the book is central harmonies, analyze their enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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