

Name \_\_\_\_\_ Date: \_\_\_\_\_

### The Mole Webquest

Use the following website to answer this set of questions:

<http://antoine.frostburg.edu/chem/scenesc/101/moles/faq/why-use-moles.shtml>

- 1) A mole of anything is how many? (give the number):

$$6.02 \times 10^{23}$$

- 2) Why is it that different amounts of things can still equal one mole? (think about the weight of a dozen elephants vs a dozen eggs)

**The number of grams in a mole is different from substance to substance.**

- 3) Why do we want to use the concept of moles?

**You often want to know how many molecules you have in a sample of a substance.**

**With moles, you count the number of molecules in the sample by weighing it.**

- 4) Once we know the number of moles we can convert to the number of:

**moles or grams** and vice versa.

- 5) How many grams of water are in one mole of water?

$$1 \text{ mole water} = 18 \text{ g water}$$

- 6) How many molecules of water are in one mole of water?

$$6.02 \times 10^{23}$$

Use the following website to answer the next set of questions:

<https://chemfiesta.wordpress.com/2015/02/06/mole-calculations-3/>

- 7) Define molar mass.

**The mass of a given substance (chemical element or chemical compound is in g) divided by its amount of substance in (mol).**

- 8) What is the mass of one mole of oxygen?

**16.0 grams per mole**

- 8) Find the molar mass of  $\text{NH}_4\text{NO}_3$ . (Show your work)

**Ammonium nitrate has two nitrogen atoms ( $2 \times 14.0 \text{ g/mol}$ ), four hydrogen atoms ( $4 \times 1.0 \text{ g/mol}$ ), and three oxygen atoms ( $3 \times 16.0 \text{ g/mol}$ ). This makes the molar mass  $80.0 \text{ g/mol}$ .**

# The Mole Webquest Answer Key

**Hussin A.Rothana**



## **The Mole Webquest Answer Key:**

## **The Mole Webquest Answer Key** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Mole Webquest Answer Key**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<http://www.frostbox.com/public/browse/fetch.php/Total%20Gym%202000%20Owners%20Manual.pdf>

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