Name ______Block _____

Percent Composition and Molecular Formula Worksheet

- 1. Calculate the percent of nitrogen in urea, NH-CONH-.
- 2. Calculate the percentage of water in zinc sulfate heptahydrate.
- 3. Calculate the percentage of oxygen in potassium chlorate.
- Calculate the percentage of tin in potassium stannate trihydrate, K₂SnO₃ •2H₂O

Write the molecular formulas of the following compounds:

- A compound with an empirical formula of C₂OH₄ and a molar mass of 88 grams per mole.
- A compound with an empirical formula of C₄H₄O and a molar mass of 136 grams per mole.
- A compound with an empirical formula of CFBrO and a molar mass of 254.7 grams per mole.
- A compound with an empirical formula of C₂H₈N and a molar mass of 46 grams per mole.

Answer the following questions:

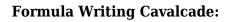
- The percentage composition of acetic acid is found to be 39.9% C, 6.7% H, and 53.4% O. Determine the
 empirical formula of acetic acid.
- 10. The molar mass for question #9 was determined by experiment to be 60.0 g/mol. What is the molecular formula?
- 11. What's the empirical formula of a molecule containing 18.7% lithium, 16.3% carbon, and 65.0% oxygen?
- 12. A 50.51 g sample of a compound made from phosphorus and chlorine is decomposed. Analysis of the products showed that 11.39 g of phosphorus atoms were produced. What is the empirical formula of the compound?
- When 2.5000 g of an oxide of mercury, (Hg_xO_y) is decomposed into the elements by heating, 2.405 g of mercury are produced. Calculate the empirical formula.
- 14. The compound benzamide has the following percent composition. What is the empirical formula? C = 69.40 % H = 5.825 % O = 13.21 % N = 11.57 %
- 15. A component of protein called serine has an approximate molar mass of 100 g/mole. If the percent composition is as follows, what is the empirical and molecular formula of serine?

C = 34.95 % H= 6.844 % O = 46.56 % N= 13.59 %

- 16. Aniline, a starting material for urethane plastic foams, consists of C, H, and N. Combustion of such compounds yields CO₂, H₂O, and N₂ as products. If the combustion of 9.71 g of aniline yields 6.63 g H₂O and 1.46 g N₂, what is its empirical formula?
- 17. The molar mass of aniline is 93 g/mol. What is its molecular formula?

Formula Writing Cavalcade

Siddappa N.Byrareddy



Formula Writing Cavalcade: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. Formula Writing Cavalcade: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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