



### Atomic Mass of Cadmium (Cd)

**Objectives:** To isolate the "isotopes" of Cadmium and calculate its atomic mass.

**Materials:** - Sample of Cadmium (in a baggie)

- a balance

- a calculator

#### Introduction:

As we now know, Dalton's idea that all atoms of one element were identical is actually incorrect. A sample of any element is a mixture of its various isotopes. Some concepts we will be investigating include how the **average atomic mass** of an element relates to the **atomic mass** and **relative abundance** of its isotopes. As each element is comprised of different isotopes, your sample of cadmium is comprised of different cadmium with different masses. Each type of cadmy represents a different isotope of cadmium.

#### Pre-Lab Questions:

1. What are isotopes?
2. Define average atomic mass and relative abundance in two complete sentences.

#### Procedure:

1. Obtain a sample of cadmium that contains three different brands of candy. Treat each brand of candy as an isotope of cadmium.
2. On a piece of paper towel, separate the three isotopes into groups labeled A, B and C, and measure the total mass of each isotope. Record the masses of each isotope in the **Total Mass** row of the data table.
3. Count the number of atoms in each sample. Record the number in the **numbers** row.
4. Follow the calculations described below to understand how to fill out the remainder of the data table.

# Answer Key Small Scale Lab

**Tsuyoshi Nakajima, Henri Groult**



## Answer Key Small Scale Lab:

**Innovative Technology-based Solutions for Primary, Secondary and Tertiary STEM Education** Cristina Hava Muntean, Diana Bogusevschi, Gabriel-Miro Muntean, 2019-09-23 This book presents innovative technology enhanced learning solutions for STEM education proposed by the EU Horizon 2020 funded NEWTON project by first highlighting the benefits and limitations of existing research work e learning systems and case studies that embedded technology in the teaching and learning process NEWTON s proposed innovative technologies and pedagogies include adaptive multimedia and multiple sensorial media virtual reality fabrication and virtual labs gamification personalisation game based learning and self directed learning pedagogies The main objectives are to encourage STEM education among younger generations and to attract students to STEM subjects making these subjects more appealing and interesting Real life deployment of NEWTON technologies and developed educational materials in over 20 European educational institutions at primary secondary and tertiary levels demonstrated statistical significant increases in terms of learner satisfaction learner motivation and knowledge acquisition *New perspectives and emerging directions in predator-prey functional response research: Hommage to C.S. Holling (1930- 2019)* Thomas John Hossie, Dennis Murray, 2023-07-26 The Shock and Vibration Digest, 1979 Technology Valuation Solutions F. Peter Boer, 2004-09-23 A better way to value the profitability and risk of R D projects New technology and R D initiatives affect companies in both the service and manufacturing sector It s estimated that half a trillion dollars is spent worldwide each year on such efforts Technology Valuation Solutions website offers a methodology along with illustrative cases for valuing the profitability and risk of R D projects A companion to Boer s earlier work *The Valuation of Technology* 978 0 471 31638 1 this book provides additional material that will help readers assess a wide variety of projects and business scenarios In addition to the in depth case studies this book includes a website featuring valuation templates that readers can customize for their own individual needs *Advanced Fluoride-Based Materials for Energy Conversion* Tsuyoshi Nakajima, Henri Groult, 2015-04-30 *Advanced Fluoride Based Materials for Energy Conversion* provides thorough and applied information on new fluorinated materials for chemical energy devices exploring the electrochemical properties and behavior of fluorinated materials in lithium ion and sodium ion batteries fluoropolymers in fuel cells and fluorinated carbon in capacitors while also exploring synthesis applications and both safety and stability issues As electronic devices from cell phones to hybrid and electric vehicles are increasingly common and prevalent in modern lives and require dependable stable chemical energy devices with high level functions are becoming increasingly important As research and development in this area progresses rapidly fluorine compounds play a critical role in this rapid progression Fluorine with its small size and the highest electronegativity yields stable compounds under various conditions for utilization as electrodes electrolytes and membranes in energy devices The book is an ideal reference for the chemist researcher technician or academic presenting valuable current insights into the synthesis of fluorine compounds and fluorination

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**CVD Polymers** Karen K. Gleason, 2015-06-08 The method of CVD chemical vapor deposition is a versatile technique to fabricate high quality thin films and structured surfaces in the nanometer regime from the vapor phase Already widely used for the deposition of inorganic materials in the semiconductor industry CVD has become the method of choice in many applications to process polymers as well This highly scalable technique allows for synthesizing high purity defect free films and for systematically tuning their chemical mechanical and physical properties In addition vapor phase processing is critical for the deposition of insoluble materials including fluoropolymers electrically conductive polymers and highly crosslinked organic networks Furthermore CVD enables the coating of substrates which would otherwise dissolve or swell upon exposure to solvents The scope of the book encompasses CVD polymerization processes which directly translate the chemical mechanisms of traditional polymer synthesis and organic synthesis in homogeneous liquids into heterogeneous processes for the modification of solid surfaces The book is structured into four parts complemented by an introductory overview of the diverse process strategies for CVD of polymeric materials The first part on the fundamentals of CVD polymers is followed by a detailed coverage of the materials chemistry of CVD polymers including the main synthesis mechanisms and the resultant classes of materials The third part focuses on the applications of these materials such as membrane modification and device fabrication The final part discusses the potential for scale up and commercialization of CVD polymers

**Developing Solid Oral Dosage Forms** Yihong Qiu, Yisheng Chen, Geoff G.Z. Zhang, Lawrence Yu, Rao V. Mantri, 2016-11-08 Developing Solid Oral Dosage Forms Pharmaceutical Theory and Practice Second Edition illustrates how to develop high quality safe and effective pharmaceutical products by discussing the latest techniques tools and scientific advances in preformulation investigation formulation process design characterization scale up and production operations This book covers the essential principles of physical pharmacy biopharmaceutics and industrial pharmacy and their application to the research and development process of oral dosage forms Chapters have been added combined deleted and completely revised as necessary to produce a comprehensive well organized valuable reference for industry professionals and academics engaged in all aspects of the development process New and important topics include spray drying amorphous solid dispersion using hot melt extrusion modeling and simulation bioequivalence of complex modified released dosage forms biowaivers and much more Written and edited by an international team of leading experts with experience and knowledge across industry academia and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon predictive biopharmaceutics and pharmacokinetics the development of formulations for drug discovery support and much more Presents new case studies

throughout and a section completely devoted to regulatory aspects including global product regulation and international perspectives

**Introductory Chemistry** Charles H. Corwin, 2005 For one semester courses in Basic Chemistry Introduction to Chemistry and Preparatory Chemistry and the first term of Allied Health Chemistry This text is carefully crafted to help students learn chemical skills and concepts more effectively Corwin covers math and problem solving early in the text he builds student confidence and skills through innovative problem solving pedagogy and technology formulated to meet student needs

The Master Key Paul Renno Heyl, 1924

**Chemical Engineering Progress**, 1998

**A Laboratory Manual of Physics for Use in High Schools** Henry Crew, Robert Richardson Tatnall, 1902

Earthquake Notes Seismological Society of America. Eastern Section, 1930 No 1 2 of each vol 1930 form the Proceedings or abstracts of proceedings of the section s annual meetings some of which were held jointly with the Section of Seismology of the American Geophysical Union No for 1953 62 include Minutes of the Eastern Section meetings 25th 34th

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**Confidence in Models of Radionuclide Transport for Site-specific Assessments** NEA Project on Radionuclide Migration in Geologic, Heterogeneous Media, 2001 This fourth GEOTRAP workshop Confidence in Models of Radionuclide Transport for Site specific Performance Assessment held in June 1999 addressed the issue of technical confidence building and provided an overview of current developments in this field

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