

Name \_\_\_\_\_

Date \_\_\_\_\_ Pd \_\_\_\_\_

## Chemistry – Unit 10 Worksheet 3

1. Element X has two natural isotopes. The isotope with a mass number of 6 has a relative abundance of 7.5%. The isotope with a mass number of 7 has a relative abundance of 92.5%. Determine the average molar mass for the element from these figures. What is the true identity and atomic number of element X?
2. The element copper is found to contain the naturally occurring isotopes  $^{63}_{29}\text{Cu}$  and  $^{65}_{29}\text{Cu}$ . The relative abundances are 69.1% and 30.9% respectively. Calculate the average molar mass of copper.
3. Uranium has three isotopes with the following percent abundances:  $^{234}_{92}\text{U}$  (0.0058%),  $^{235}_{92}\text{U}$  (0.71%),  $^{238}_{92}\text{U}$  (99.23%). What do you expect the molar mass of uranium to be in whole numbers? Why?
4. A sample of silver as it occurs in nature is 52.0% of isotope  $^{107}_{47}\text{Ag}$  and 48.0% of isotope  $^{109}_{47}\text{Ag}$ . What is the average molar mass of silver? (Compare your result with the value given in the periodic table).

# Modeling Chemistry Unit 10 2 Answer

**YCT Expert Team**



## Modeling Chemistry Unit 10 2 Answer:

Soft Computing Models in Industrial and Environmental Applications Václav Snášel, Ajith Abraham, Emilio S.

Corchado, 2012-08-23 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2012 held in the beautiful and historic city of Ostrava Czech Republic in September 2012 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a thorough peer review process the SOCO 2012 International Program Committee selected 75 papers which are published in these conference proceedings and represents an acceptance rate of 38% In this relevant edition a special emphasis was put on the organization of special sessions Three special sessions were organized related to relevant topics as Soft computing models for Control Theory Applications in Electrical Engineering Soft computing models for biomedical signals and data processing and Advanced Soft Computing Methods in Computer Vision and Data Processing The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help

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     *Journal of the Chemical Society* ,1995     *Russian Chemical Reviews* ,1986     *Russian Journal of Inorganic Chemistry* ,1995     **The Chemical News and Journal of Industrial Science** ,1882     *Journal of Applied Chemistry of the USSR* ,1989     Nanoscience for the Conservation of Works of Art Piero Baglioni,David Chelazzi,2013 Understanding the chemistry behind works of art and heritage materials presents an opportunity to apply scientific techniques to their conservation and restoration Manipulation of materials at the nanoscale affords greater accuracy and minimal disturbance to the original work while efficiently combating the affects of time and environment This book meets the growing demand for an all encompassing handbook to instruct on the use of today s science on mankind s cultural heritage The editors have pioneered modern techniques in art conservation over the last four decades and have brought together expertise from across the globe Each chapter presents the theoretical background to the topic in question followed by practical information on its application and relevant case studies Introductory chapters present the science behind the physical composition of art materials Four chapters explore various cleaning techniques now followed by four chapters describing the application of inorganic nanomaterials Each chapter is fully referenced to the primary literature and offers suggestions for further reading Professional conservators and scientists alike will find this essential reading as will postgraduate students in the fields of materials and colloid science art restoration and nanoscience     **Resources in Education** ,1980-04     *Energy Research Abstracts* ,1989 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information     **The Software Encyclopedia** ,1988

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