

## 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  $^{63}\text{Cu}$  and  $^{65}\text{Cu}$ . 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:  $^{234}\text{U}$  (0.0058%),  $^{235}\text{U}$  (0.71%),  $^{238}\text{U}$  (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  $^{107}\text{Ag}$  and 48.0% of isotope  $^{109}\text{Ag}$ . 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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