

Name: _____

Date: _____

Period: _____

Isotopes Worksheet #1

1. The element nitrogen has two isotopes with masses of 14 (99.5%) and 15 (0.5%). Calculate the average atomic mass of nitrogen. (show your work)

2. The element chlorine has two isotopes with masses of 35 (75.5%) and 37 (24.5%). Calculate the average atomic mass of chlorine. (show your work)

3. Calculate the atomic mass of an element which has two isotopes with masses of 10 (20%) and 11 (80%). Show your work and name the element.

4. Calculate the atomic mass of an element which has two isotopes with masses of 12 (98.9%) and 13 (1.1%). Show your work and name the element.

5. Magnesium consists of three isotopes with masses of 24 (78.5%), 5 (10%), and 26 (11.5%). What is the atomic mass of magnesium? (show your work)