- 1. How many protons and neutrons are in the nucleus of oxygen ¹⁶₈O?
- 2. How many protons, neutrons and electrons are the nucleus of boron ${}^{11}{}_{5}B$?
- 3. There are 20 protons and 20 neutrons in the calcium atom. What is the charge of calcium with 18 electrons? Write down the symbol of this ion.
- What is the relative atomic mass of the element 51Sb if it has two isotopes: ¹²¹₅₁Sb (atomic mass 120.9) natural abundance 57.4% and ¹²³₅₁Sb (atomic mass 122.9) natural abundance 42.7%.
- 5. *The atomic mass of natural copper is 63.5. It is composed of two isotopes: ⁶³Cu and ⁶⁵Cu. What is the abundance of each of these isotopes? What are their nuclei compositions (how many protons and neutrons)?

HW 2