



- 1.) How many protons and neutrons are in the nuclei of ^{204}Tl atoms?

- 2.) What is the atomic number, mass number and symbol for the element that has 45 protons and 58 neutrons?

- 3.) Write the complete symbol for an atom with the following characteristics
 - a.) contains 19 electrons and 20 neutrons
 - b.) nitrogen atom with 8 neutrons
 - c.) bromine atom with a mass number of 80
 - d.) mercury atom that contains 281 subatomic particles
 - e.) contains 20 protons and has a mass number of 42
 - f.) cobalt atom with 33 neutrons
 - g.) iodine atom with 181 subatomic particles
 - h.) sulfur atom with 52 subatomic particles
 - i.) uranium atom with 146 neutrons
 - j.) copper atom with 65 nucleons

- 4.) Magnesium occurs in nature in three isotopic forms:

	<u>relative mass</u>
^{24}Mg (78.70% abundance)	23.985 amu
^{26}Mg (11.17% abundance)	25.983 amu
^{25}Mg (10.13% abundance)	24.986 amu

Calculate the atomic mass of Magnesium from these data