

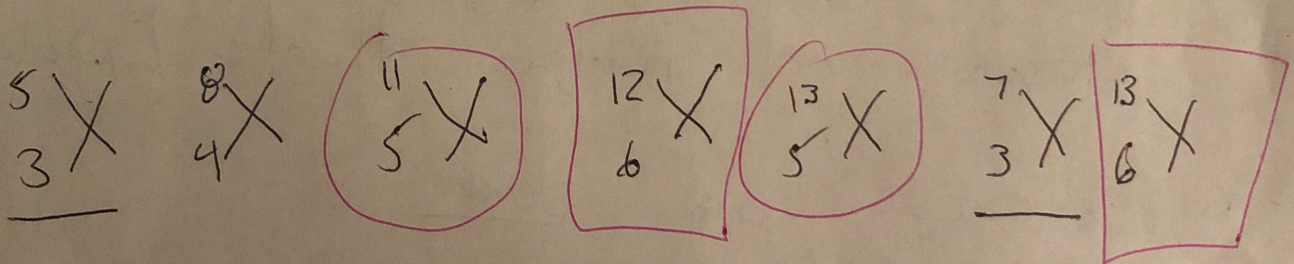
## Quiz 1 Review

Isotopes can be defined as:

Represent the isotope carbon-12 in proper isotopic notation:

What is the role of the neutron?

Which of the following group of atoms are isotopes of the same element?



The element X consists of 3 main isotopes: 95.02% X-32 (31.97 amu), 0.75 % X-33 (32.97 amu) and 4.21% X-34 (33.97 amu). Calculate the average atomic mass of element X.

$$\begin{aligned} & (31.97 \times 0.9502) + (32.97 \times 0.0075) + \\ & \quad (33.97 \times 0.0421) \\ & = 32.06 \quad \underline{2mu} \end{aligned}$$