

Nuclear Practice Quiz

1. Find the BE and BE/nucleon for
 - a. Lithium-8
 - b. Lithium-9
2. Write the decay equation for
 - a. Magnesium-21 decays by positron emission
 - b. Np-237 decays by alpha
3. Calculate the energy released when 0.0004 g of fluorine-21 decay
4. The half-life of radium is 1620 years. If a sample initially has 2.43×10^{24} atoms, how many atoms will remain after 4000 years?
5. Carbon 14 decays into N-14 with a half-life of 5760 years. A sample has a ratio of N-14 to C-14 of 6 to 1. Find the age of the sample.