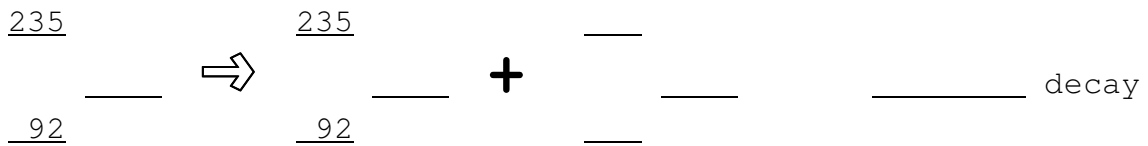
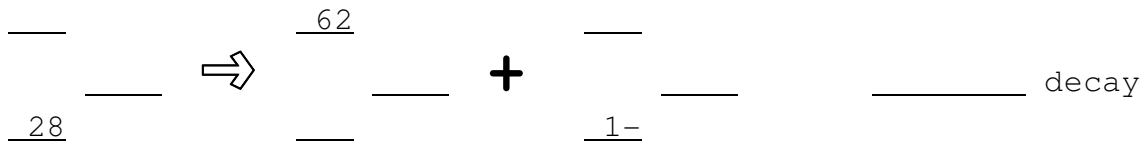
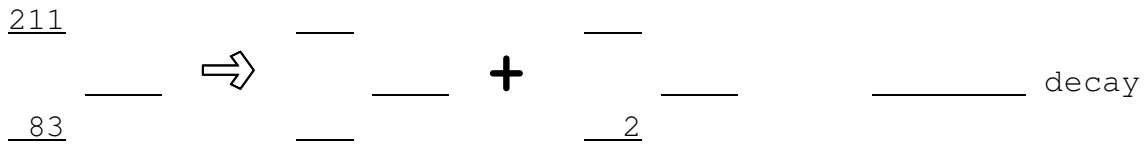
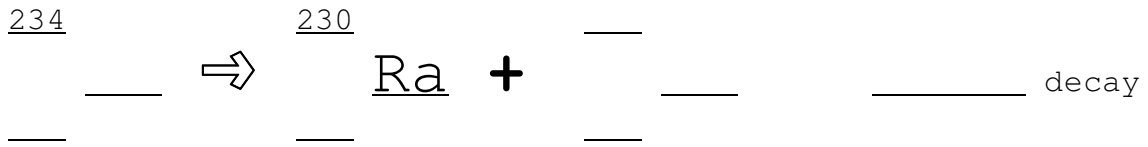
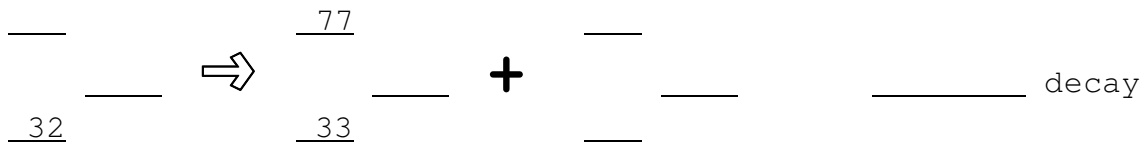
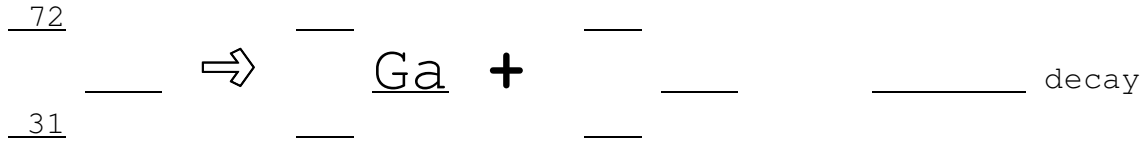


Name: _____

Radioactive Decay and Average Isotopic Mass Quiz - SCH 3U

Complete each decay process:



Neodymium found on earth is composed of seven different isotopes. They are Nd - 142, Nd - 143, Nd - 144, Nd - 145, Nd - 146, Nd - 148 and Nd - 150. These isotopes have the masses of 141.907731u, 142.909823u, 143.910096u, 144.912582u, 145.913126u, 147.916901u and 149.920900u respectively. Their percent abundance is 27.13 %, 12.18 %, 23.80 %, 8.30 %, 17.19 %, 5.76 %, 5.64 %. Use this information to determine the average atomic mass of Neodymium. Please use the format shown in class.