1. A $22~{\rm g}$ sample of an unknown element is found to decay to $2.490~{\rm g}$ after $4.715~{\rm ms}$. Use the table below to determine which element this sample is.

isotope ÷	half-life 10 ⁻³ seconds
francium-218	1.0
bismuth-204m2	1.07
protactinium-217m	1.08
meitnerium-266	1.2
nobelium-258	1.2
uranium-216m	1.31
polonium-187	1.40
nihonium-278	1.4
sodium-35	1.5
radium-215	1.55
darmstadtium-271m	1.7