

Radioactive Decay and Half-Life Practice Problems

1. Determine the fraction of the isotope that is remaining.
2. Utilize the following formulas: $\ln(1/2) = kt$ (half-life)

$$N = N_0 e^{kt} \text{ (exponential decay)}$$

1. The half-life of Palladium-100 is 4 days. How much of your 150 gram sample of Palladium-100 remains after 24 days? How much has decayed?
2. Radon-222 is a radioactive gas with a half-life of 3.82 days. How long would it take for fifteen-sixteenths of a sample of radon-222 to decay?
3. Uranium-238 decays very slowly, with a half-life of 4.47 billion years. What percentage of a sample of uranium-238 would remain after 13.4 billion years?
4. A sample of Strontium-90 is found to have decayed to one-eighth of its original amount after 87.3 years. What is the half-life of strontium-90?
5. A sample of Francium-212 will decay to one-sixteenth its original amount after 80 minutes. What is the half-life of francium-212?
6. The half-life of iodine-131 is 8.1 days. How long will it take for three-fourths of a sample of iodine-131 to decay?
7. The ratio of carbon-14 to carbon-12 in a prehistoric wooden artifact is measured to be one-eighth of the ratio measured in a fresh sample of wood from the same region. The half-life of carbon-14 is 5,715 years. Determine its age.
8. Health officials are concerned about radon levels in homes. The half-life of radon-222 is 3.82 days. If a sample of gas contains 4.38 grams of radon-222, how much will remain in the sample after 15.2 days?
9. Seaborgium-243 has the shortest half-life, measuring in 4.5 milliseconds. If you have a 2000 gram sample of this substance, how long will it take until you only have 1 gram sample remaining?
10. Review: Bismuth-212 (Bi-212) undergoes a combination of alpha and beta decays to form lead-208 (Pb-208). Provide a series of possible steps Bismuth-212 takes to get to lead-208 using ONLY alpha and beta decay.

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