

1/2 Life and Radioactive Decay

For more practice on section 7.2 see pg 357 # 3-6, 8-10, 12-18

- The half-life of radon-222 is 4 days. Using this example, explain what 1/2 life is.
- If you started with 100 million radioactive atoms, how many would you have left after $\frac{1}{2}$ One 1/2 life? Two 1/2 lives? Three half-lives?
 - What happens to the radioactive atoms once they decay?

- The following graph shows the radioactive decay curve for Iodine-131. This radioisotope is used in medicine to help diagnose issues with the thyroid such as cancer and hyperthyroidism. Use the graph for questions.



- What percent of the isotope remains after 32 days?
 - What is the 1/2 life of Iodine-131?
 - A patient administered 20 mg of iodine-131. How many mg of this radioactive isotope will remain the body after 24 days? (show work)
- Why do you think it's important that radioactive isotopes used internally for diagnosis or treatment have relatively short half-lives?
 - How much of a 100.0g sample of Au-198 is left after 8 days if its half-life is 2 days? (Show work)
 - A 50.0 g sample of N-16 decays to 12.5 g in 14 seconds. What's the half-life? (Show work)
 - There are 5.0g of I-131 left after 40 days. How many grams were in the original sample if the half-life is 8 days? (Show work)

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