

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)

Radioactive Decay And Half Life Lab Answers

Mark Steyvers



Radioactive Decay And Half Life Lab Answers:

Reviewing **Radioactive Decay And Half Life Lab Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Radioactive Decay And Half Life Lab Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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