

Half-Lives

1. Radioactive materials undergo nuclear decay at a constant rate.
2. The half-life is the time required for half of a sample to radioactive decay.
3. The half-life of Iodine - 131 is about 8 days. This means in eight days, half of a sample would remain.

a. Start with 200 mg of Iodine - 131. How many remains after eight days? 100 mg

$$200 \text{ mg} \xrightarrow[\text{HL}]{8 \text{ d}} 100 \text{ mg}$$

b. You have 50 mg of Iodine - 131 remaining. How many half-lives have passed? 2

How many days is this? 16

$$100\% \rightarrow 50\% \rightarrow 25\% \rightarrow 12.5\%$$

c. How long would it take for 87.5% of Iodine to decay?

$$3(\text{HL}) = 24 \text{ days}$$

Half-Life Formula:

$$A = A_0 \left(\frac{1}{2} \right)^n$$

$$n = t/h$$

1. Label the variables above.
 A = amount left
 A_0 = initial amount
 n = number of half-lives
 t = total time passing
 h = time for one half-life
2. Nobelium - 259 has a half-life of 58 minutes. How much remains from a 1000g sample after 1440 minutes?

$$n = \frac{t}{h} = \frac{1440}{58} = 24.8 \quad A = 1000 \left(\frac{1}{2} \right)^{24.8} \rightarrow 3.36 \times 10^{-5} \text{ g remaining}$$

3. Dubnium - 269 has a half-life of 34 seconds. How long will you wait to see 500g of it decay to 1g?

$$A = A_0 \left(\frac{1}{2} \right)^n \quad \log(0.002) = \log(0.5)^{\frac{t}{34}}$$

$$t = 305 \text{ s}$$

$$\frac{1}{500} = \frac{500 \left(\frac{1}{2} \right)^{\frac{t}{34}}}{500} \rightarrow 0.002 \left(\frac{1}{2} \right)^{\frac{t}{34}} \rightarrow \frac{-2.7}{-0.3} = \frac{-0.3 \left(\frac{1}{24} \right)}{-0.3} \quad (34) 8.97 = \left(\frac{t}{34} \right)^{29}$$

Practice Problems using the Formula (SHOW YOUR WORK)

1. The half-life of polonium - 218 is 3 min. If you start with 485g of polonium, how much remains after 22 minutes?

$$A = 485 \left(\frac{1}{2} \right)^{\frac{22}{3}} = 485 \left(\frac{1}{2} \right)^{7.3} = 3.08 \text{ g left}$$

2. The half-life of polonium - 218 is 3 min. How much time will it take to see 25g decay to 3g?

Guided Practice Problem 14 Answers

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Table of Contents Guided Practice Problem 14 Answers

1. Understanding the eBook Guided Practice Problem 14 Answers
 - The Rise of Digital Reading Guided Practice Problem 14 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Guided Practice Problem 14 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guided Practice Problem 14 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guided Practice Problem 14 Answers
 - Personalized Recommendations
 - Guided Practice Problem 14 Answers User Reviews and Ratings
 - Guided Practice Problem 14 Answers and Bestseller Lists
5. Accessing Guided Practice Problem 14 Answers Free and Paid eBooks
 - Guided Practice Problem 14 Answers Public Domain eBooks
 - Guided Practice Problem 14 Answers eBook Subscription Services
 - Guided Practice Problem 14 Answers Budget-Friendly Options

6. Navigating Guided Practice Problem 14 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Guided Practice Problem 14 Answers Compatibility with Devices
 - Guided Practice Problem 14 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guided Practice Problem 14 Answers
 - Highlighting and Note-Taking Guided Practice Problem 14 Answers
 - Interactive Elements Guided Practice Problem 14 Answers
8. Staying Engaged with Guided Practice Problem 14 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guided Practice Problem 14 Answers
9. Balancing eBooks and Physical Books Guided Practice Problem 14 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guided Practice Problem 14 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Guided Practice Problem 14 Answers
 - Setting Reading Goals Guided Practice Problem 14 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guided Practice Problem 14 Answers
 - Fact-Checking eBook Content of Guided Practice Problem 14 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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