

Radioactivity and Half-Lives Review Worksheet

1. What is a half-life?
The **time** it takes for half of the material you started with to decay.
2. If we start with 400 atoms of a radioactive substance, how many would remain after one half-life? **200** After 2 half-lives? **100** After 3 half-lives? **50** After 4 half-lives? **25**
3. If we start with 16 grams of a substance, how much will remain after 3 half-lives?
16 → 8 → 4 → 2 **2 grams** after 3 half-lives.
4. A sample of carbon-14 has been decaying for 22,920 years and is now 35.0 grams. What was the size of the original sample? (The half-life of carbon-14 is 5,730 years)
22920/5730 = 4 half lives You will need to work backwards
35 → 70 → 140 → 280 → **560. grams**
7. How old is a skeleton sample if the current amount of carbon in the bones is 3.125%?
(Assume you started with 100%)
100% → 50 → 25 → 12.5 → 6.25 → 3.125 5 half lives x 5,730 = **28,650 years**
8. If you started with 120 grams of a radioactive substance, and now you have 15 grams, how many half-lives have passed?
120 → 60 → 30 → 15 **3 half-lives**
9. The half-life of isotope X is 2.0 years. How many years would it take for a 4.0 mg sample of isotope X to decay and have only 0.50 mg of it remain?
4.0 → 2.0 → 1.0 → 0.50 3 half lives x 2 years = **6.0 years**
10. The half-life of Po-218 is three minutes. How much of a 200 atom sample will remain after 15 minutes?
15 minutes/3 = 5 half lives 200 → 100 → 50 → 25 → 12.5 → **6.25 atoms**
11. The half-life of Au-198 is 2.69 days. How long does it take a 180g sample to decay to 1/8 its original mass?
1 → 1/2 → 1/4 → 1/8 3 half lives x 2.69 days = **8.07 days**
12. What is the half-life of a radioactive sample if 100.0 grams of it decays to 12.5 grams in 24.3 hours?
100 → 50 → 25 → 12.5 24.3/3 half lives = **8.10 hours**
13. How long will it take a sample of ¹³¹I to decay to 12.5% assuming its half-life is 8.07 days?

Answer Key To Half Lives

Singhal Atul



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Table of Contents Answer Key To Half Lives

1. Understanding the eBook Answer Key To Half Lives
 - The Rise of Digital Reading Answer Key To Half Lives
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Half Lives
 - 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 Answer Key To Half Lives
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Half Lives
 - Personalized Recommendations
 - Answer Key To Half Lives User Reviews and Ratings
 - Answer Key To Half Lives and Bestseller Lists
5. Accessing Answer Key To Half Lives Free and Paid eBooks
 - Answer Key To Half Lives Public Domain eBooks
 - Answer Key To Half Lives eBook Subscription Services
 - Answer Key To Half Lives Budget-Friendly Options

6. Navigating Answer Key To Half Lives eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key To Half Lives Compatibility with Devices
 - Answer Key To Half Lives Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key To Half Lives
 - Highlighting and Note-Taking Answer Key To Half Lives
 - Interactive Elements Answer Key To Half Lives
8. Staying Engaged with Answer Key To Half Lives
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key To Half Lives
9. Balancing eBooks and Physical Books Answer Key To Half Lives
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key To Half Lives
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key To Half Lives
 - Setting Reading Goals Answer Key To Half Lives
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key To Half Lives
 - Fact-Checking eBook Content of Answer Key To Half Lives
 - 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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