

Half Life Calculations Practice

2 pages + 2-page Answer Key

HALF-LIFE CALCULATIONS

1. Radioiodine has a half-life of 8 days. If you start with 40 grams of radioiodine, how much will remain after 16 days?
2. If the half-life of Carbon-14 is 5730 years, how much of a 100 gram sample will remain after 11,460 years?
3. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for Uranium-238 to decay to 1/16 of the original amount?
4. The half-life of Uranium-238 is 4.5 billion years. How long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?
5. Strontium-90 has a half-life of 28.8 years. If you start with 64 grams, how much will remain after 86.4 years?
6. If the half-life of Technetium-99m is 6 hours, how long will it take for Technetium-99m to decay to 1/16 of the original amount?

HALF-LIFE CALCULATIONS

1. Radioiodine has a half-life of 8 days. If you start with 40 grams of radioiodine, how much will remain after 16 days?
 $40 \rightarrow 20 \rightarrow 10$
10g will remain after 16 days
2. If the half-life of Carbon-14 is 5730 years, how much of a 100 gram sample will remain after 11,460 years?
 $100 \rightarrow 50 \rightarrow 25$
25g will remain after 11,460 years
3. If the half-life of Uranium-238 is 4.5 billion years, how long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?
 $1 \rightarrow 1/2 \rightarrow 1/4 \rightarrow 1/8 \rightarrow 1/16$, so 4 half-lives
4.5 billion years \times 4 half-lives
= 18 billion years will remain
4. The half-life of Uranium-238 is 4.5 billion years. How long will it take for a sample of Uranium-238 to decay to 1/16 of the original amount?
 $100 \rightarrow 50 \rightarrow 25 \rightarrow 12.5 \rightarrow 6.25$
6.25g will remain after 18 billion years
5. Strontium-90 has a half-life of 28.8 years. If you start with 64 grams, how much will remain after 86.4 years?
 $64 \rightarrow 32 \rightarrow 16 \rightarrow 8$
8g will remain after 86.4 years
6. If the half-life of Technetium-99m is 6 hours, how long will it take for Technetium-99m to decay to 1/16 of the original amount?
 $1 \rightarrow 1/2 \rightarrow 1/4 \rightarrow 1/8 \rightarrow 1/16$, so 4 half-lives
6 hours \times 4 half-lives
= 24 hours will remain

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Table of Contents Physical Science Half Life Calculations Instructional Fair Inc

1. Understanding the eBook Physical Science Half Life Calculations Instructional Fair Inc
 - The Rise of Digital Reading Physical Science Half Life Calculations Instructional Fair Inc
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Half Life Calculations Instructional Fair Inc
 - 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 Physical Science Half Life Calculations Instructional Fair Inc
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Half Life Calculations Instructional Fair Inc
 - Personalized Recommendations
 - Physical Science Half Life Calculations Instructional Fair Inc User Reviews and Ratings
 - Physical Science Half Life Calculations Instructional Fair Inc and Bestseller Lists
5. Accessing Physical Science Half Life Calculations Instructional Fair Inc Free and Paid eBooks
 - Physical Science Half Life Calculations Instructional Fair Inc Public Domain eBooks
 - Physical Science Half Life Calculations Instructional Fair Inc eBook Subscription Services
 - Physical Science Half Life Calculations Instructional Fair Inc Budget-Friendly Options

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