

HALF-LIFE PROBLEMS

Name Hayley Smith

Block 2

1. An isotope of cesium (cesium-137) has a half-life of 30 years. If 1.0 g of cesium-137 disintegrates over a period of 90 years, how many g of cesium-137 would remain?

3 half lives

1.0
↓
0.5
↓
0.25 → 125

125g

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

$$90 \text{ years} \left(\frac{30 \text{ yrs}}{1 \text{ half life}} \right) = 3 \text{ half lives}$$

2. Actinium-226 has a half-life of 29 hours. If 100 mg of actinium-226 disintegrates over a period of 58 hours, how many mg of actinium-226 will remain?

$$58 \times \frac{1}{29} = 2 \text{ half lives}$$

25 grams

100
↓
50
↓
25

3. Sodium-25 was to be used in an experiment, but it took 3.0 minutes to get the sodium from the reactor to the laboratory. If 5.0 mg of sodium-25 was removed from the reactor, how many mg of sodium-25 were placed in the reaction vessel 3.0 minutes later if the half-life of sodium-25 is 60 seconds?

3 1/2 lives

5
↓
2.5 → 1.25

0.25 g

4. The half-life of isotope X is 2.0 years. How many years would it take for a 4.0 mg sample of X to decay and have only 0.50 mg of it remain?

$$5 = 4 \left(\frac{1}{2}\right)^n$$

$$\log 125 = \log \left(\frac{1}{2}\right)^n$$

$$3 = n$$

6 years

5. Selenium-83 has a half-life of 25.0 minutes. How many minutes would it take for a 10.0 mg sample to decay and have only 1.25 mg of it remain?

$$\frac{1.25}{10} = \left(\frac{1}{2}\right)^n$$

$$125 = \left(\frac{1}{2}\right)^n$$

3 1/2 lives

25
↓
12.5
↓
6.25

75 min

6. The half-life of Po-218 is three minutes. How much of a 2.0 gram sample remains after 15 minutes? Suppose you wanted to buy some of this isotope, and it required half an hour for it reach you. How much should you order if you need to use 0.10 gram of this material?

2.0
↓
1.25
↓
0.625g

6 1/2 lives

$$2.0 \left(\frac{1}{2}\right)^6$$

$$2.0 \left(\frac{1}{64}\right)$$

$$= 0.03125$$

$$10 = A_0 \left(\frac{1}{2}\right)^6$$

$$10 = A_0 \left(\frac{1}{64}\right)$$

$$640 \text{ grams}$$

24 Practice Problems Half Life Answers

Michael R. Lindeburg



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Table of Contents 24 Practice Problems Half Life Answers

1. Understanding the eBook 24 Practice Problems Half Life Answers
 - The Rise of Digital Reading 24 Practice Problems Half Life Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 24 Practice Problems Half Life 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 eBook 24 Practice Problems Half Life Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 24 Practice Problems Half Life Answers
 - Personalized Recommendations
 - 24 Practice Problems Half Life Answers User Reviews and Ratings

- 24 Practice Problems Half Life Answers and Bestseller Lists
- 5. Accessing 24 Practice Problems Half Life Answers Free and Paid eBooks
 - 24 Practice Problems Half Life Answers Public Domain eBooks
 - 24 Practice Problems Half Life Answers eBook Subscription Services
 - 24 Practice Problems Half Life Answers Budget-Friendly Options
- 6. Navigating 24 Practice Problems Half Life Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 24 Practice Problems Half Life Answers Compatibility with Devices
 - 24 Practice Problems Half Life Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 24 Practice Problems Half Life Answers
 - Highlighting and Note-Taking 24 Practice Problems Half Life Answers
 - Interactive Elements 24 Practice Problems Half Life Answers
- 8. Staying Engaged with 24 Practice Problems Half Life Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 24 Practice Problems Half Life Answers
- 9. Balancing eBooks and Physical Books 24 Practice Problems Half Life Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 24 Practice Problems Half Life Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 24 Practice Problems Half Life Answers
 - Setting Reading Goals 24 Practice Problems Half Life Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 24 Practice Problems Half Life Answers
 - Fact-Checking eBook Content of 24 Practice Problems Half Life 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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