

DEMONSTRATING THE HALF-LIFE OF A RADIOACTIVE ISOTOPE

Name _____ Block _____

Materials: 100 pennies, shoe box

Procedure:

1. Place 100 pennies in a shoe box so that all pennies are **heads** up.
2. Cover the shoe box and shake it **FIVE TIMES** vigorously so that the pennies are well mixed.
4. Open the shoe box and remove all pennies that are **tails** up.
5. Record on your data table the number of pennies **remaining** in the box.
6. Cover the box and shake it again.
7. Repeat Steps #1-5 until only one (or zero) penny remains.

Data Table:

Half-Life

Shakes ("Time")	Pennies in Box
0	100
5	
10	
15	
20	
25	
30	
35	
40	
45	

Conclusions:

1. Approximately what fraction of the remaining pennies was removed from the box after each shaking? _____
2. How many times did you shake the box before only one penny remained? _____
3. If someone stopped you and counted only 12 remaining, could he or she have calculated the time (in # of shakes) you started the experiment? _____ Explain:
4. Imagine that the shoe box is fossilized bone that contains 24 pug (picogram) of radiocarbon. When it was buried, it contained 100 pug of radiocarbon. If the half-life of radiocarbon is 5730 years, how old is the bone? Show your work:

Half Life Of Radioactive Isotopes Worksheet Answers Instructional Fair

**Woodward Kent T.,Ariel G.
Schrodt,James Earl Anderson,Harry A.
Claypool,James B. Hartgering**

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Chemistry Homework Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table writing formulas balancing equations stoichiometry problems and more

A Table of Radioactive Isotopes Arranged According to Half-lives John W. Jones, U.S. Atomic Energy Commission, 1947 A complete table of radioactive isotopes excluding alpha emitters has been prepared and arranged in the order of increasing half life

Investigation of Methods for Measuring the Half-life of Radioactive Isotopes Helen Thompson, 1949

The Determination of Internally Deposited Radioactive Isotopes in the Marshallese People by Excretion Analysis Woodward Kent T., Ariel G. Schrodt, James Earl Anderson, Harry A. Claypool, James B. Hartgering, 1960

A list of radioactive isotopes in ascending order of half-life R. J. Bullock, N. R. Large, 1968

High Precision Method of Measurement of Radioisotope Half-lives Jules Herman Sreb, 1951

A Dose Estimate Based on Stable Isotope Data, 1965

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Table of Contents Half Life Of Radioactive Isotopes Worksheet Answers Instructional Fair

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

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