

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:

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Hussin A.Rothana



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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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