

# 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

**DP Hallahan**



## **Half Life Of Radioactive Isotopes Worksheet:**

## The Enigmatic Realm of **Half Life Of Radioactive Isotopes Worksheet**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Half Life Of Radioactive Isotopes Worksheet** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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