

Half Life and Radioactive Decay

Name: _____

Instructions: The *half-life* of a radioactive substance is a characteristic constant. It measures the time it takes for a given amount of the substance to become reduced by half as a consequence of decay, and therefore, the emission of radiation. Scientists use half-life to calculate amount of radioactive isotopes present in a sample.

Sample Half-life Problem: A 100 gram sample of carbon-14 undergoes radioactive decay until 12.5 grams of carbon-14 remains in the original sample. This process took 17,190 years. How many half-lives have passed? What is the half-life of ^{14}C ?

Step 1: Make a data table with the original isotope, half-lives and time passed as its column headers.

Isotope (g)	Number of Half-lives Passed	Time Passed (Years)
100g	0	0
50	1	
25	2	

Step 2: Using the half-life principle, deduct the correct amount of isotope and record the number of half-lives passed until you reach the given number of years.

Amount of Isotope (g)	Number of Half-lives Passed	Time Passed (Years)
100g	0	

Step 3: Divide the number of year passed by the number of half-lives passed: $17,190/5 = 3438$ years in one half-life. Fill in the remainder of the chart.

Amount of Isotope (g)	Number of Half-lives Passed	Time Passed (Years)
100g	0	0
50	1	3438
25	2	6876
12.5	3	10314

Half-life Problems:

- What is the half-life of ^{235}U if a 500g sample decays to 30.25 grams in 63 hours?
- How much of a 100 g sample of ^{14}C would remain after 37 years if the half-life is 12,35 years?
- The half-life of ^{239}Pu is 1.4×10^4 years. If there are 6.25 g. of the sample left after 2.8×10^4 years, how many grams were in the original sample?
- The half-life of Iodine-131 is 8.04 days. How long will it take a 200 g. sample to decay into 6.25g?

Radioactive Decay And Half Life Worksheet Answers

Stewart C. Bushong



Radioactive Decay And Half Life Worksheet Answers:

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Spectrum Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Prentice Hall Science Explorer** Michael J. Padilla,2002 **Radiologic Science for Technologists** Stewart C. Bushong,1997 The purpose of this textbook is to

convey a working knowledge of radiologic physics and to prepare radiography students for the certification exam by the ARRT The textbook also provides a standard of knowledge from which practicing radiographers can make decisions about technical factors and diagnostic image quality in the work place This edition gives an expanded coverage of quality management which includes all of the content on the ARRT It also includes coverage of new cardiovascular interventional equipment and recent advances in spiral CT and digital radiography Keeps students informed and up to date with respect to professional standards and requirements *Cutnell & Johnson Physics* John D. Cutnell,David Young,Kenneth W.

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