Half Life and Radioactive Decay

Instructions: The half-life of a redivercine substance is a characteristic constant. It inequals the time it takes for a given amount of the substance to become reduced by half as a consequance of droay, and therefore, the entiation of rediation. Scientists use half-life to calculate annuals of rediations are discovered to calculate annuals of rediations.

Sample Half-life Problems A 100 gram sample of carbon 14 under goes 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 MC?

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

Compress.	married of Steel
FROM SE	Street Street
-	

Property of	man area	(Control)
- 10	- 1	1.000 19
1800	1.0	1000

Step It Using the half-life.

principle, dieduct the correct amount of lootope and record the number of half-fives passed until you reach the given number of years.

Step 2: Divide the number of year spaced by the number of half-tives passed: 17,190/3 = 5730 years in one half-title. Fitt in the remainder of the chart.

Street street	Number of Participal Participal	New Yorks
179	100	10.00
1.00 miles	5.743	0.00
W		200000
64.8	1000000	275,000

Halff-lifte Produkening

- What is the haf-life of Phys. F.a.500s seniore decay too 30, 25 grams in 60 hours?
- How much of a 200 g sample of HS would remain after 37 years if the half-life is 1.2.35 years?
- The highlite of ³⁰Th is 1.4 × 1.0³⁰ years if there are 5.25 g of the sample left after 2.6 × 10³⁰ years, how many grams were in the original sample?
- The half-life of lodine-131 is 8.04 days. How long will it take a 200 g sample to decay ince-6.25g?

Radioactive Decay And Half Life Worksheet Answers

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