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Calculating Half Life Answers

Answer: Calculate the number of half-lives;
 $0.003 \text{ seconds} \times 1 \text{ half-life} = 3 \text{ half-lives}$
 0.001 second • After 0 half-lives, 10 g are left.
After 1 half-life, 5 g are left. After 2 half-lives, 2.5 g are left. After 3 half-lives, 1.25 g are left.

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HALF-LIFE PROBLEMS

Half-Life = 121.1 days
Scroll down for 4 more
half-life problems. Here
are the formulas used
in calculations
involving the
exponential decay of
radioactive materials.
Scroll down for 4 half-
life problems.

Half-Life Equations and Calculations - 1728.org

Calculating Half-Life

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from a Graph 1. Read the original count rate at 0 days. Take a look at your graph and find the starting point, or the 0 day mark, on... 2. Go down half the original count rate and mark it on the graph. Starting from the top of the curve, note the count... 3. Draw a vertical ...

5 Ways to Calculate Half Life - wikiHow

counts per second from

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a sample of iodine-131. The half life of iodine-131 is 8 days. (i) Using the axes given below, sketch a graph showing the count rate from the sample of iodine-131 over a period of 24 days.

ANSWER: (ii) From the graph, deduce the activity of the sample of iodine-131 after 20 days.

ATOMS: HALF LIFE QUESTIONS AND

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ANSWERS

$$= 3.5 \times 0.125 = 0.4375$$

$$\text{MBq } A = 0.440 \text{ MBq}$$

Activity: If the original

activity of a sample is

21.0 kBq and it has a

half-life of 3.00 days,

how much will be left

after 12.0 days? $A_0 =$

$$21 \text{ kBq } A = A_0 \times (0.5)$$

$$n \quad n = 12 \div 3 = 4 \quad = 21 \times (0.5)$$

$$4 = 4 = 21 \times 0.0625 =$$

$$1.3125 \text{ A} = 1.31 \text{ kBq}$$

Another way of writing

the above equation is

shown below.

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$20.0 / 3.6 = 5.56$ half-
lives. $(1/2)^{5.56} =$
 0.0213 (the decimal
fraction remaining
after 5.56 half-lives)
 $(6.02 \times 10^{23}) (0.0213)$
 $= 1.28 \times 10^{22}$ atoms

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remain. Problem
#3:Os-182 has a half-
life of 21.5 hours.

ChemTeam: Half-Life Problems #1 - 10

$t_{1/2}$ is the half-life τ is
the mean lifetime λ is
the decay constant. If
an archaeologist found
a fossil sample that
contained 25%
carbon-14 in
comparison to a living
sample, the time of the
fossil sample's death
could be determined

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by rearranging equation 1, since N_t , N_0 , and $t_{1/2}$ are known. This means that the fossil is 11,460 years old.

Half Life Calculator

The half-life of a drug is an estimate of the period of time that it takes for the concentration or amount in the body of that drug to be reduced by exactly one half (50%). The symbol

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for half-life is $T^{1/2}$. For example, if 100mg of a drug with a half-life of 60 minutes is taken, the following is estimated:

Drug Half-life Explained: Calculator, Variables & Examples

To see all my Chemistry videos, check out <http://socratic.org/chemistry> How do you do half life calculations for nuclear

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decay? We'll do a whole bunch of pra...

Nuclear Half Life: Calculations - YouTube

Half Life Calculator
Answer: Calculate the number of half-lives;
 $0.003 \text{ seconds} \times 1 \text{ half-life} = 3 \text{ half-lives}$
 $0.001 \text{ second} \bullet$ After 0 half-lives, 10 g are left.
After 1 half-life, 5 g are left. After 2 half-lives, 2.5 g are left.

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Half Life Calculations And Answers

Calculating half-life?

The half-life of a certain radioactive substance is 48 hours.

There are 20 grams present initially. a) Express the amount of substance remaining as a function of time t .

Calculating half-life? | Yahoo Answers

Calculating half-life from one piece of data;

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Suppose a sample of radioisotope has an activity of 8,000Bq (counts per second). After 24 hours, the activity had dropped to 250Bq. Calculate the half-life ($t_{1/2}$) of the radioisotope. (Point System; 1 point for every correct answer following systematic procedure; 13 points maximum)

Solved: Part 2.
Radioactivity And

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The 0.5-existence is
while 0.5 of the atoms
have decayed.

consequently the cpm

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would be 0.5 as plenty.
you're able to initiate
at 6100cpm. in simple
terms draw a line
throughout the time of
while...

calculating half life. (physics question)? | Yahoo Answers

"Half life" is the
amount of time for half
of something to be
gone. If the half life is
10 minutes, half will be
gone in 10 minutes.
Half of the remaining

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half will be gone in
after the next 10...

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