Calculating Half-Life Problems

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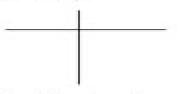
How to Calculate Half-Life Problems:

THE PROBLEM:

An isotope of cesnum (cesnum-137) has a half-life of 30 years. If 1.0 g of cesnum-137 distintegrates over a period of 90 years, how many grams of cesnum-137 would remain?

THE SOLUTION:

Draw a T-Table;



2. Label the left side with the unit of time mentioned in the problem.



 Label the right side with the mass mentioned in the problem.

TIME (yrs)	MASS	(g)

4. Begin by always writing a zero in the TIME COLUMN.

TIME (vist) MASS (c

the TIME C	OLUMP	er.
TIME (yrs)	MASS	(g)

5. Then, in the **TIME COLUMN** add one half-life at a time till you reach the total time given in the problem.

TIME (yrs)	MASS	(g)
O		
-30		
50		
90		
	A.C.	

6. In the MASS COLUMN, always start with the mass originally given in the problem.

TIME (yrs	MASS (g)
0	1.0
30 60	
90	

 Then keep dividing the number in the MASS COLUMN by 2 for each number of half-lives on the left column.

TIME	(yrs)	MASS	(2)
	O	1.0	
	30	.50	
	60	.25	
	90	.125	
	occurr.	The state of the s	

- 8. The rules are:
 - a. Add half-lives on the left.
 - b. Divide by 2 on the right.

Add Half-Life	Divide by 2

- 9. How many times you added a half-life in the TIME COLUMN equals how many half-lives have occurred.
- 10. The last amount of mass at the bottom of the MASS COLUMN equals how much mass is left after radioactive decay has occurred.

Instructional Fair Half Calculations Answers

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