Half-Life Lab

Name	Per
Half-Life is the time for one half of a radioactive isotope to decay into something else.	
Purpose: To perform a half-life "decay series" with per	nies, graph & interpret the results.
Procedure:	
1. Take 100 pennies.	
2. Mix them in a cup.	
3. Dump 'em on the table.	
4. Sort out those whose heads are up and stack them.	
5. Return the remainder to the cup, mix, dump, and sta	ck those whose heads are up.
6. Continue until all pennies are consumed.	
7. Mark a piece of graph paper into quarters in prepara	tion to making four graphs.
8. Bar graph the stacks with the number of pennies on	the y-axis and the number of the stack on the x-axis.
9. Repeat the above two more times.	
10. Average your three graphs onto a fourth graph by t three.	otaling the pennies in each column and dividing by

- 11. Write an explanation of the variations in the graphs and the shape of the average graph.
- 12. Explain what this has to do with radioactivity.
- 13. Critique