

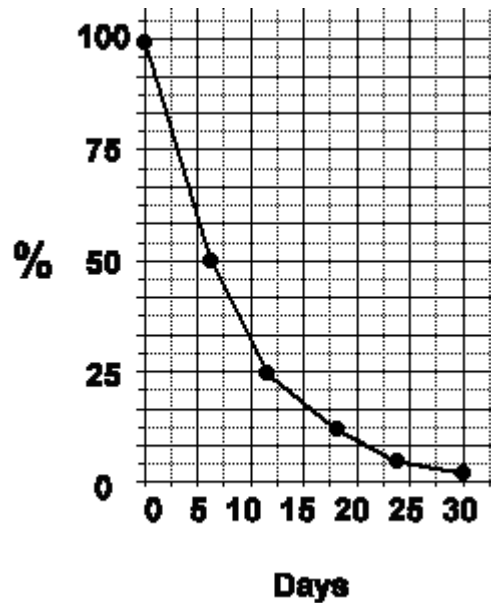
# Graphing Half-Life

Name \_\_\_\_\_

**Half-Life:** The amount of time it takes for one-half of a radioactive element to decay into a stable element. Each time a half-life goes by, half of the remaining radioactive element decays.

1. A certain radioactive element has a half-life of six days. Make a table from the graph of its decay process over the period of a month.

Days	Percent Remaining
0	
6	
12	
18	
24	
30	

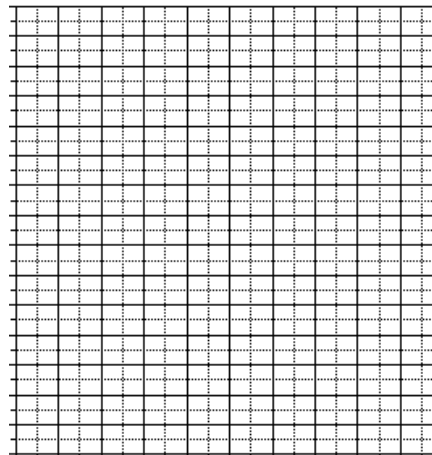


2. Will the line on the graph ever reach 0%, even after a year? \_\_\_\_\_

3. PREDICT what the percent remaining will be after 36 days. \_\_\_\_\_

4. Carbon-14 has a half-life of 5,700 years and is used to determine the age of certain fossils. Make a table of how much C-14 has decayed (in percent). Then graph the data.

Years	Percent Remaining
0	
5700	
11,400	
17,100	
22,800	
28,500	



5. How old would a fossil be if the percent of C-14 remaining was 20 percent? \_\_\_\_\_

