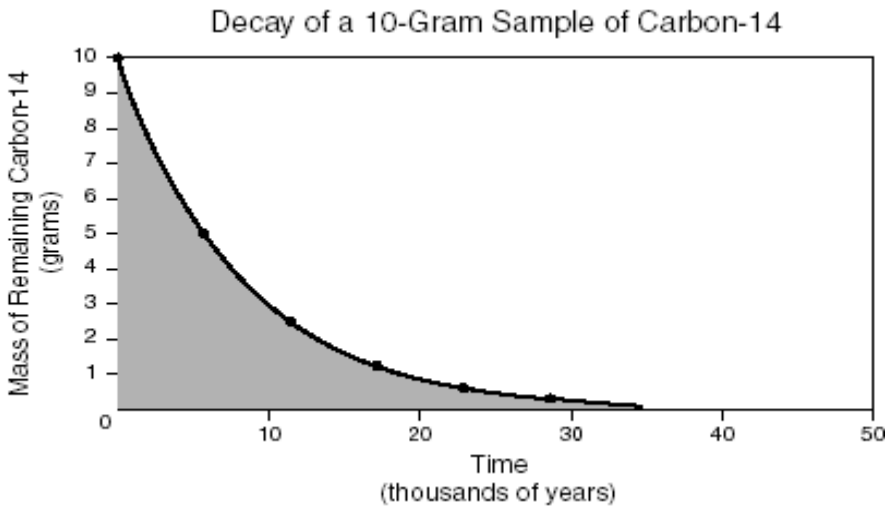
Name: _____
Period: _____ Seat #: _____

Half-Life Worksheet L



1. According to the graph, what is the approximate half-life of carbon-14?
   A. 5.7 years B. 5,700 years
   C. 23,000 years D. 1,000,000 years

2. What is half-life? _____
   _____

3. What type of Carbon in used in Carbon dating? _____

4. If you have 200 grams of radioactive Polonium with a half life of 50 years. How much is left after 50 years? _____

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   b. How much is left after 150 years? _____

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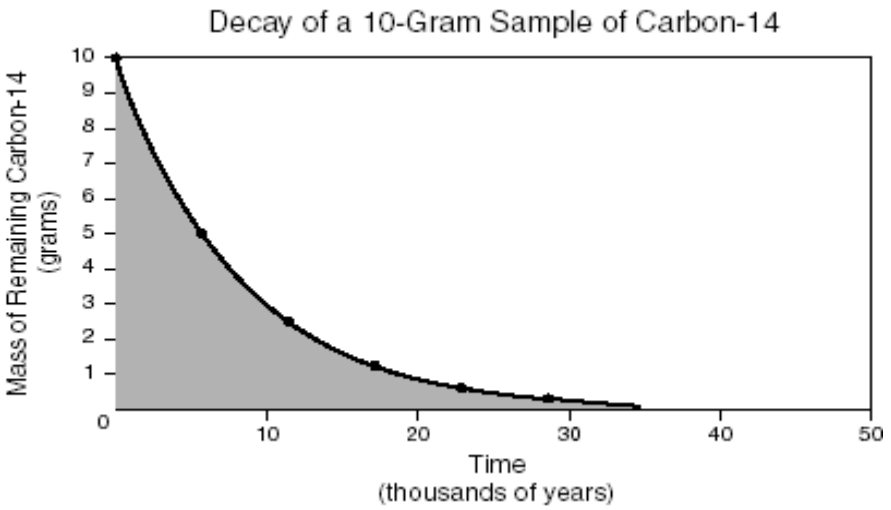

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c. How many half lives did it take to get to 50 grams? _____

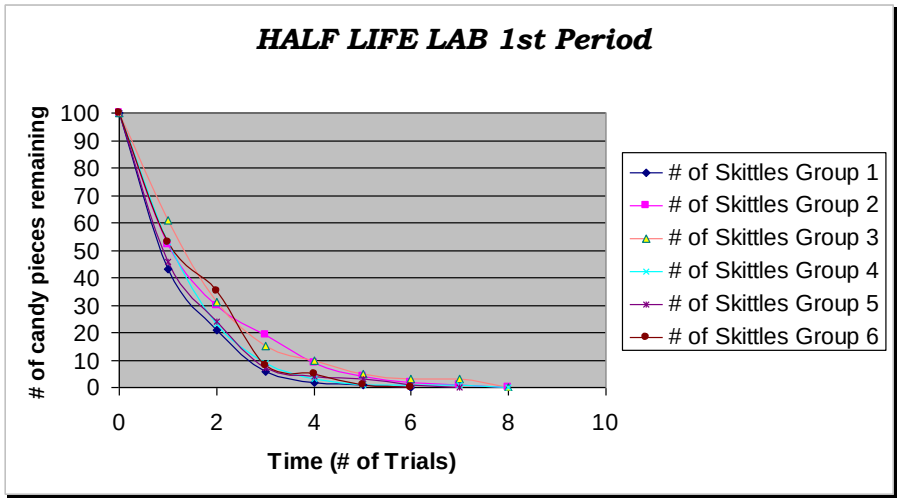
5. What are the three types of nuclear decay? _____
_____
_____

6. What can each type of nuclear decay be stopped by?
_____ _____
_____ _____
_____ _____

7. The half-life of radium-222 is 38 seconds. If you had a 12 gram sample, how much would be left after
76 seconds? _____ 114 seconds?_____

8. Sodium 24 has a half-life of 10 hours. You begin with a sample of 50 grams. It begins to decay. How much Sodium-24 would you have after 10 hours? ____
30 hours? ____
50 hours? ____

9. What trend do you notice in the following graph? _____
_____
_____



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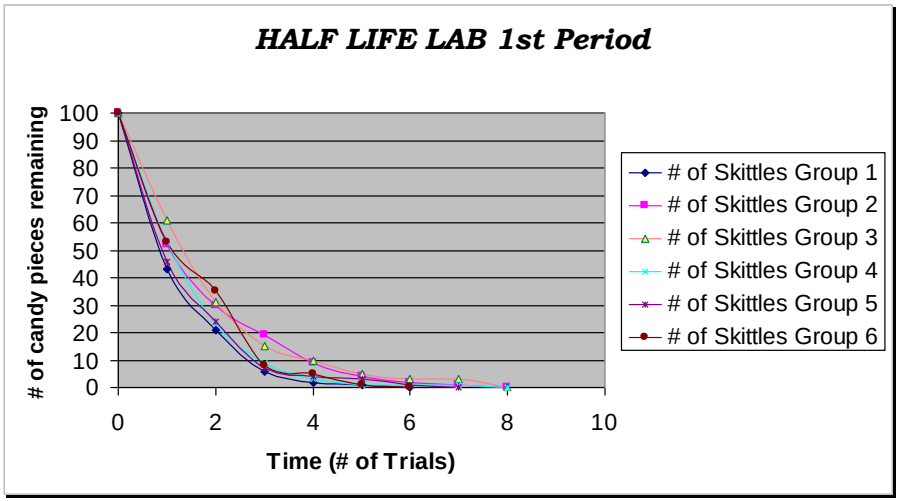
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