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## Half life simulation lab answers

Toss No. 14 5 5 5 1 0 0 0 0 1 2 7 2 7 14 3 14 5 4 6 2 5 4 1 6 1 1 7 1 0 8 1 0 9 0 End Analyz Issues: 1. Using the collected data, prepare a graph by plotting the number of radioactive cores on the y-axis and the number of throws, which we will call semi-seemes, on the x-axis. This is data from the class pool. 2. How good is our assumption that half of our radioactive nuclei disintegrate in every period of half a lifetime? Explain. If you look at the data table, you will see that everyone throw up almost half a penny of decay, resulting in half of the radioactive. This assumption that half will disintegrate each time is a good assumption, however it is not one hundred percent correct. 3. If you started with a sample of 600 radioactive nuclei, how many will remain until after three periods of semi-millia? 600 - 300 - 150 -gt; 75 After three halves of life about 75 cores will remain, and 525 cores will disintegrate into another nucleus that is no longer radioactive. Remember that decay does not mean that it disappears because matter cannot simply disappear because of the rule of mass preservation. If there are 175 unlit cores left from the sample of 2,800 cores, how many half a mile have passed? Let's work back wards 175 - 350 - 700 -gt; 1400 - 1800 Four half life. 5. Why did we combine class data? How does this compare to radioactive nuclei? When working with data that may be random, a large sample can provide more detailed accurate information. 6. How many semi-seeds will it take to break up 6.02 x 10<sup>23</sup> cores to 6.25% (0.376 x 10<sup>23</sup>) of the original kernel number? It will take 4 half lives. 0: 6.02 10<sup>23</sup>: 3.01 10<sup>23</sup>: 1.505 10<sup>23</sup>: 7.525 10<sup>22</sup>: 3.7625 10<sup>22</sup>. Is there a way to predict when a particular piece of candy will land marked side up or decomposed? If you could follow the fate of an individual atom in a sample of radioactive material, could you predict when it will disintegrate? Explain. There is no way to predict a specific correct exact number. Because this thing is random, there is a 50 - 50 chance that it will tail up or head up. So the best thing we can do right now is predict that about half will disintegrate each time. 8. Strontium-90 has a lifespan of 28.8 years. If you start with a 10-gram strontium-90 sample, how much will remain in 115.2 years? Justify your answer. 625 will remain. 0 years: 10gram 28.8 years: 5gram 57.6 years: 2.5gram 86.4 years: 1.25gram 115.2 years: .625grams 9. What do we mean by half-name? What materials do we use this term with? A period of a life expectancy is a period of time that is required to break up half of the radioactive material. We usually talk about radioactive or nuclear materials or other very unstable elements.

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