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# Half Life Problems Worksheet Answer Key

**half-life problems - weebly** - half-life problems name block i. an isotope of cesium (cesium-137) has a half-life of 30 years. if 1.0 g of cesium-137 disintegrates over a period of 90 years, how many g of cesium-137 would remain? **half-life problems - rhnet** - 4.) the half-life of isotope x is 2.0 years. how many years would it take for a 4.0 mg sample of x to decay and have only 0.50 mg of it remain? **word problems: interest, growth/decay, and half-life** - word problems: interest, growth/decay, and half-life applying logarithms and exponential functions topics include simple and compound interest, e, depreciation, rule of 72, **half-life problem set solutions** - half-life problem set solutions 1) nitrogen-13 decays to carbon-13 with a half-life of 10.0 minutes. assume that you are given a starting mass of 2.00 grams of nitrogen-13. **half-life problems - math with mr. yu** - half-life problems recall: the half-life of a radioactive substance is the time it takes for half of the material to decay. you are encouraged to make a table in order to generate some of the data for each problem situation below. **exponential functions and half-lives** - exponential functions and half-lives what is a half-life? if you start with eight million atoms of a parent isotope (p), how many p isotopes will you have after decay of p to d **lesson 44: half life - studyphysics** - lesson 44: half life the half life of an element is the time it will take half of the parent atoms to transmute into something else (through alpha or beta decays, or another process). • this amount of time varies from just 10-22s to 10<sup>28</sup>s ... that's 10<sup>21</sup> years! • the total number of atoms in a sample stays the same, it's just that some of the atoms have changed to different elements ...

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