

## 1/2 Life and Radioactive Decay

For more practice on section 7.2 see pg 357 # 3-6, 8-10, 12-18

- The half-life of radon-222 is 4 days. Using this example, explain what 1/2 life is.
- If you started with 100 million radioactive atoms, how many would you have left after  $\frac{1}{2}$  One 1/2 life? Two 1/2 lives? Three half-lives?
  - What happens to the radioactive atoms once they decay?

- The following graph shows the radioactive decay curve for Iodine-131. This radioisotope is used in medicine to help diagnose issues with the thyroid such as cancer and hyperthyroidism. Use the graph for questions.



- What percent of the isotope remains after 32 days?
  - What is the 1/2 life of Iodine-131?
  - A patient administered 20 mg of iodine-131. How many mg of this radioactive isotope will remain the body after 24 days? (show work)
- Why do you think it's important that radioactive isotopes used internally for diagnosis or treatment have relatively short half-lives?
  - How much of a 100.0g sample of Au-198 is left after 8 days if its half-life is 2 days? (Show work)
  - A 50.0 g sample of N-16 decays to 12.5 g in 14 seconds. What's the half-life? (Show work)
  - There are 5.0g of I-131 left after 40 days. How many grams were in the original sample if the half-life is 8 days? (Show work)

# Radioactive Decay And Half Life Practice Problems Answers

**Scott C. Dulebohn**



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they also sleep in ditches and stables unlike knights who are sworn to the service of a lord they

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web october 3 2017 abstract the techniques used in this lab are quantitative transfer and vacuum filtration with the reaction of 8 001 grams of copper ii sulfate  $\text{CuSO}_4$  and 2 0153 grams of iron powder  $\text{Fe}$  the goal of this experiment was to determine the product of copper ii sulfate with iron

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web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8 00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper s mass into account add these to the beaker 3 measure 50 0 ml of water in the cylinder and add it to the beaker 4

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web through this experiment we sought to use stoichiometric principles which derive from stoichiometry the study of substance quantities in ratio or proportion in a chemical reaction in this lab experiment the principles help distinguish the equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction

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web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web under the finalize of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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web stoichiometry lab report the reaction of iron with copper ii sulfate period 5 in this experiment i observed the reaction of iron with copper ii sulfate i obtained the results to this experiment through adding heated  $\text{CuSO}_4$  solution to the iron powder stirring the solution adding water then removing water adding acetone heating the acetone on low

**stoichiometry the reaction of iron with copper ii sulfate** - Jul 14 2023

web stoichiometry the reaction of iron with copper ii sulfate purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction

**stoichiometry lab iron and copper sulfate studylib net** - May 12 2023

web stoichiometry lab iron and copper sulfate sample data data and observations mass of copper ii sulfate pentahydrate 3 27 g of g mass of filter paper mass of filter paper and dry copper mass of dry copper 1 28 g