

1. Define half-life. *(1 mark)*
2. How is the half-life of a radioisotope similar to a sporting tournament in which the losing team is eliminated? *(2 marks)*
3. The half-life of radium-226 is 1600 years. If a sample of radium-226 has an original activity of 200 Bq, what will its activity be after 4800 years? *(2 marks)*
4. Sodium-24 has a half-life of 15 hours. If a sample of sodium-24 has an original activity of 500 Bq, what will its activity be after 60 hours? *(2 marks)*
5. After 42 days the activity of a sample of phosphorus-32 has decreased from 400 Bq to 50 Bq. What is the half-life of phosphorus-32? *(2 marks)*
6. The half-life of radon-222 is 3.8 days. What was the original activity if it has an activity of 10 Bq after 7.6 days? *(2 marks)*
7. The half-life of thorium-227 is 19 days. How many days are required for 75% of a sample to decay? *(2 marks)*
8. The half-life of protactinium-234 is 6.75 hours. What percentage of a sample will remain after 27 hours? *(2 marks)*
9. A rock once contained 1.0 mg of uranium-238, but now contains only 0.25 mg. Given that the half-life for uranium-238 is 4.5×10^9 (4.5 billion) years, how old is the rock? *(2 marks)*
10. The half-life of tritium (hydrogen-3) is 12.3 years. If 48.0 mg of tritium is released from a nuclear power plant during the course of a mishap, what mass of the sample will remain after 49.2 years? *(2 marks)*

Total marks: 19

Half Life Calculations Worksheet Instructional Fair

Raffaela Di Napoli



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Chemistry Homework Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table writing formulas balancing equations stoichiometry problems and more *Popular Science*, 1945-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *Resources in Education*, 1982 **Guitar Expressions Teacher Edition, Vol 2**, 2006-08 Each volume of the 2 volume teacher edition set contains 54 complete lesson plans for 18 units of Guitar Expressions Each lesson includes a Lesson Snapshot

Instructional Overview a complete step by step lesson plan with embedded assessments The book also includes reproducible student worksheets assessments forms and student progress record CDs containing complete instruction demonstration play along and additional listening tracks Included are Bloom s Taxonomy Correlation Assessment Overviews and Core Thinking Overviews Plus interactive Guitar Guru technology embedded on the included CD ROM included in Teacher ed v 2 allows students to use their computers to view animated fretboard displays of selected songs *Teaching Today* Geoffrey Petty, 2004 This book aims to be a straightforward and practical how to teach book It is intended for those teaching in either schools colleges or universities as well as those teaching or training in industry commerce or the public services Preface

Not Much Just Chillin' Linda Perlstein, 2004-08-31 Suddenly they go from striving for A s to barely passing from fretting about cooties to obsessing for hours about crushes Former chatterboxes answer in monosyllables freethinkers mimic everything from clothes to opinions Their bodies and psyches morph through the most radical changes since infancy They are kids in the middle school years the age every adult remembers well enough to dread Here at last is an up to date anthropology of this critically formative period Prize winning education reporter Linda Perlstein spent a year immersed in the lunchroom classrooms hearts and minds of a group of suburban Maryland middle schoolers and emerged with this pathbreaking account Perlstein reveals what s really going on under kids don t touch me facade while they grapple with schoolwork puberty romance and identity A must read for parents and educators Not Much Just Chillin' offers a trail map to the baffling no man s land between child and teen **Kiplinger's Personal Finance**, 2002-02 The most trustworthy source of information available today on savings and investments taxes money management home ownership and many other personal finance topics *Cincinnati Magazine*, 2001-10 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region **H and R Block 1999 Income Tax Guide** H & R Block, H&R Block, 1998-12 From the world s largest provider of tax services comes the annual guide to preparing returns featuring step by step guidelines for filing out forms time and money saving tips and a wealth of advice and information tailored to the needs of middle income Americans 2 color throughout Forms tables charts

New Scientist, 1989-02 *Resources in Education*, 1982 **H and R Block 2000 Income Tax Guide** H & R

Block, H&R Block, 1999-12 From the world's largest providers of tax services comes the annual guide to preparing returns with step by step guidelines for filling out forms time and money saving tips and a wealth of advice and information tailored to the needs of middle income Americans Up to date forms are provided on perforated paper 2 color throughout Tables and charts Computers David L. Feinstein, Carl Feingold, Fritz H. Grupe, 1990 **Communication Applications, Te** Randall McCutcheon, 2000-04 **Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed** National Information Center for Special Education Materials, 1978 **Flying** , 1981 **Half-Life 95 Success Secrets - 95 Most Asked Questions on Half-Life - What You Need to Know** Margaret Faulkner, 2015-01-12

A brand new Half life Guide Half life t1 2 is the quantity of time needed for a amount to fall to fifty per cent its worth as calculated at the start of the time time While the expression Half Life may be applied to report whatever amount that tails an exponential decompose it is nearly all frequently applied inside the setting of atomic natural science and atomic chemistry that is the time needed probabilistically for fifty per cent of the unsteady emitting radiation particles in a tester to experience emitting radiation decompose There has never been a Half life Guide like this It contains 95 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Half life A quick look inside of some of the subjects covered Half Life video game Expansions Planet Half Life Game servers Half Life Opposing Force Elimination half life Half Life Decay Plot Gordon Freeman Half Life 2 and Episodes Scanner Half Life Overwatch Teleportation in fiction Half Life series Half Life video game Reception and legacy Half Life 2 Lost Coast Level design Scanner Half Life Advisors Half Life Decay Critical reception Half Life Blue Shift Gameplay Half Life video game Development Tinidazole Half life Half Life video game Story Half Life video game Sequels Half Life 2 Lost Coast Story List of isotopes by half life Biological half life Alcohol Half Life Opposing Force Setting Planet Half Life History Half Life Blue Shift Critical reception Half Life 2 Deathmatch Team Deathmatch Half Life series Plot Half Life video game Third party mods Planet Half Life Site hosting and much more

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