

Half-life calculations

Notes on General Chemistry

<http://quantum.bu.edu/notes/GeneralChemistry/HalfLifeCalculations.pdf>
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Using coin flips to count people

Everyone in of a group of 202 people is initially standing. Each person flips a coin, and sits down if the coin lands heads up. Each person still standing flips again, and sits down if the coin lands heads up. After 5 coin flips, 7 people remain standing. How many people are in the large group?

The fundamental expression

$$N_n = (1/2)^n N_0.$$

becomes

$$7 = (1/2)^5 N_0.$$

We rearrange this for the number of people present, then the initial number of students—the class attendance—evaluates to

$$N_0 = 7 \times 2^5 = 7 \times 64 = 448.$$

This is different from the actual number of people, 202, but the result shows that, to within a factor of two, we can use “half life decay” to “count” an initial population size.

| Why is our result so different from the number of people present?

For such a small sample, this is definitely the hard and not very accurate way to count. But if we had a very large sample, say the people at a Boston Red Sox game in Fenway Park, it would be much quicker than counting each person individually.

Half-life

Half-life, t_{half} , is defined as the amount of time required for the amount of a substance to be reduced by 50%. Half-life a useful concept if its value does *not* depend on how much material is present. Such a decay process is called a *first order*. Nuclear decay is first order.

Let's say a substance undergoes first order decay with $t_{\text{half}} = 1$ hour, and that we begin with 60 units of the substance. This means

n / hours	units remaining
0	60
1	30 = 50% of 60
2	15 = 50% of 30
3	7.5 = 50% of 15

Half Life Calculations Instructional Fair

Lauren Gardner



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Foundations of College Chemistry Morris Hein, Susan Arena, Cary Willard, 2023 Foundations of College Chemistry 16th edition presents chemistry as a modern vital subject and is designed to make introductory chemistry accessible to all beginning students. It is intended for students who have never taken a chemistry course or those who had a significant interruption in their studies but plan to continue with the general chemistry sequence. The central focus is to make chemistry interesting and understandable and teach students the problem solving skills they will need. This International Adaptation offers new and updated content with improved presentation of all course material. It builds on the strengths of previous editions including clear explanations and step by step problem solving. The material emphasizes real world applications of chemistry as the authors develop the principles that form the foundation for the further study of chemistry. There is new and expanded coverage of polarizing power and polarizability, Fajans rules, collision number and mean free path, abnormal molecular masses and van t Hoff factor and applications of radioactivity. Chemistry Homework Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table, writing formulas, balancing equations, stoichiometry problems and more. **Precalculus** Robert F. Blitzer, Wayne J. Bentley, 2003 Gets Them Engaged Keeps Them Engaged. Blitzer's philosophy presents the full scope of mathematics while always 1. engaging the student by opening their minds to learning 2. keeping the student engaged on every page 3. explaining ideas directly simply and clearly so they don't get lost when studying and reviewing. *Good Questions for Math Teaching* Lainie Schuster, Nancy Canavan Anderson, 2005 Good Questions or open ended questions promote students' mathematical thinking, understanding and proficiency. By asking careful purposeful questions, teachers create dynamic learning environments, help students make sense of math and unravel misconceptions. This valuable book includes a wide variety of good questions for classroom use and offers teachers tips on how to create open ended questions of their own. Parliamentary Papers Great Britain. Parliament. House of Commons, 1906. **Elementary Education Acts**, 1888. Votes & Proceedings New South Wales. Parliament. Legislative Council, 1860. *Report of the Minister of Public Instruction for the Year ...* Victoria Department of Public Instruction, 1888. **Reports from Commissioners** Great Britain. Parliament. House of Commons, 1868. **Proceedings of the Parliament of South Australia** South Australia. Parliament, 1882. **Colliery Guardian, and Journal of the Coal and Iron Trades**, 1921. Annual Report of the Commissioners ..., 1899. *Confronting Oppressive Assessments* Walter S. Polka, John William McKenna, 2016-09-14 This book is about doing what's right for public education in the United States in this age of intensive curriculum convergence, planned instructional standardization and oppressive accountability procedures. Information is presented about why and how educators, parents, students, community members and policy makers have decided to protest against current state and federal educational policies and procedures. The practical experiences of parents, teachers, principals, school superintendents, school board members and professors are analyzed in chapters of this book. Their

first hand experiences with the various components of the current reform movement are poignantly presented Through their voices the frustrations with the serious flaws associated with this reform agenda are passionately and logically articulated They comprehensively explain their personal and professional motivations for organizing and fomenting a rethinking in school reform implementation procedures and they advocate their smarter approach to school reforms in our country The book includes key references that elucidate the need to seriously re think the directions and strategies of contemporary schooling in order to maintain enlightened creative instruction based on exciting student centered curriculum experiences and professional educational judgments

Viewpoints in Teaching and Learning ,1981 **Fundamental Constructs in Mathematics Education** Sue Johnston-Wilder,John Mason,2004-01-22 Fundamental Constructs in Mathematics Education is a unique sourcebook crafted from classic texts research papers and books in mathematics education Linked together by the editors narrative the book provides a fascinating examination of and insight into key constructs in mathematics education and how they link together The choice of constructs is based on some of the many constructs which have proved fruitful in research and which have informed choices made by teachers The book is divided into two parts learning and teaching The first part includes views about how people learn from Plato to Dewey as well as constructivism activity theory and French didactiques The second part includes extracts concerned with initiating sustaining and bringing to a conclusion learners work on mathematical tasks Fundamental Constructs in Mathematics Education provides access to a wide range of constructs in mathematics education and orients the reader towards important original sources

On Trying To Teach M. Robert Gardner,2013-04-15 In an era in which the teaching enterprise is freighted with tactics techniques and methods M Robert Gardner guides us back to the spirit of teaching He writes especially about the dilemmas and challenges of teaching about how it feels to be trying to teach Gardner s provocative often iconoclastic musings will goad teachers of all subjects to reflect anew on their calling Clinical readers will take special pleasure in the humane psychoanalytic sensibility that not only infuses Gardner s own teaching but shapes his approach to the most basic questions about teaching and learning in general

Congressional Record United States. Congress,1998 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

The Literary Digest Edward Jewitt Wheeler,Isaac Kaufman Funk,William Seaver Woods,Arthur Stimson Draper,Wilfred John Funk,1909 **Social Security Provisions Affecting Public Employees** United States. Congress. House. Committee on Ways and Means. Subcommittee on Social Security,2004 The Nation ,1874

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