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Below is a list of the chapters that are intended to be included in Pharmaceutical Calculations. Chapters in black have been completed, chapters in blue are currently being worked on, and chapters in red still need to be started. Currently all chapters have been completed but the entire book has been sent to editors for review. Unit 1 - Basic Arithmetic Chapter 1 - Numerical Systems Used in Pharmacy Chapter 2 - Fractions Chapter 3 - Percentages Chapter 4 - The 24-Hour Time, Exponents, & Scientific Notation Chapter 5 - Problem Solving Methods Unit 2 - Basic Pharmacy Math Chapter 6 - Temperature Scale Conversions Chapter 7 - Units of Measurement Chapter 8 - Working with Prescriptions Chapter 9 - Basic Medication Calculations Chapter 10 - Basic Infusion Calculations Unit 3 - Community Pharmacy Math Chapter 11 - Day's Supply Chapter 12 - Compounding Math Chapter 13 - Calculations for Billing Compounds Chapter 14 - Pharmacy Business Math Unit 4 - Institutional Pharmacy Math Chapter 15 - Parenteral Dosage Calculations Chapter 16 - Insulin Chapter 17 - MilliMoles, MilliEquivalents, Millicuries, and International Units Chapter 18 - Powder Volume Calculations Chapter 19 - Percentage Strength Chapter 20 - Ratio Strength Chapter 21 - Parts, Reducing & Enlarging Formulas, & Parts Per Million Chapter 22 - Dosage Calculations Based on Body Weight Chapter 23 - Dosage Calculations Based on Body Surface Area Chapter 24 - Infusion Rates & Drip Rates Chapter 25 - Dilutions & Alligations Chapter 26 - Parenteral Nutrition Chapter 27 - Aliquots . New Improved Formula Database Read about the changes here. View Free Samples of the Documents View Latest 100 Additions The documented formula library contains over 3,600 formulas in a standardized format delivered via Adobe Acrobat™ (PDF) files. All have been updated to include beyond-use-date information and source references. More are being added with the goal of making this the largest online compilation of compounding formulations in the world. You may search the database by keyword, formula ID Number, or using links for common keywords. Use the advanced search to include (or exclude) formulas based on dosage form, formula components, or functional use. Common Keyword Searches Start here for these common searches, you may add more keywords on the results page to find specific items. "USP" - United States Pharmacopoeia "BP" - British Pharmacopoeia While a great deal of effort has been expended to ensure the accuracy of the formulations, contained here, JPC accepts no liability for loss or damage arising from reliance on the information. Compounding pharmacists using this information take full responsibility for the formulations and hold JPC and its officers, directors and employees harmless from any claim arising from use or reliance on information contained therein. You must have Adobe Acrobat Reader to view formulation pages. The technical requirements for those that wish to make changes to the chapters are fairly simple. You'll need either OpenOffice.org or LibreOffice (either of which can be downloaded for free) along with the Red Hat Liberation Fonts (these fonts are being used so that no one needs to worry about proprietary fonts). The legal requirements are spelled out by the license that has been chosen for this book. This book is licensed under the GPL version 3.0 or later. If you don't feel like reading the legalese, the short of it is that you are free to download the book, share the book, and even modify the book, but if you choose to redistribute the book after you've modified it, you need to make your modifications available to others and they have the right as to whether or not they want to incorporate your modifications. You are also required to submit only original or open source artwork along with any modifications you make. Please respect copyright laws. While not a requirement, the Dmaths extension is highly recommended. It is useful for quickly inserting formulas into the text. You may need to translate Dmaths website as it is written in French. At-a-Glance - Pharmacy Calculations (SOURCE) Source files (PowerPoint) and metadata for At a Glance - Pharmacy Calculations (17 leaflets) covering a variety of pharmacy calculations. These resources have been contributed under a Creative Commons licence to the mathcentre Community Project by Dr Matthew Copping, University of Kent and reviewed by Dr Scott Wildman, Medway School of Pharmacy. It is one of a series of 17 resources funded by a sigma Resource Development grant. At-a-Glance 01: Units & Strengths At a Glance - Pharmacy Calculations (Leaflet 1) covering units of measure, prefixes and strengths. This resource has been contributed under a Creative Commons licence to the mathcentre Community Project by Dr Matthew Copping, University of Kent and reviewed by Dr Scott Wildman, Medway School of Pharmacy. It is one of a series of 17 resources funded by a sigma Resource Development grant. At-a-Glance 02: CIVI=C2V2 At a Glance - Pharmacy Calculations (Leaflet 2) covering the use of proportional sets to calculate equivalent amounts, strengths and subsitutes. 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At-a-Glance 14: Prescriptions (1) At-a-Glance 14: At a Glance - Pharmacy Calculations (Leaflet 14) covering calculating the quantity of tablets/capsules required for a prescription This resource has been contributed under a Creative Commons licence to the mathcentre Community Project by Dr Matthew Copping, University of Kent and reviewed by Dr Scott Wildman, Medway School of Pharmacy. It is one of a series of 17 resources funded by a sigma Resource Development grant. At-a-Glance 15: Prescriptions (2) At a Glance - Pharmacy Calculations (Leaflet 15) covering calculating the quantity of a pre-packaged liquid product to supply.. This resource has been contributed under a Creative Commons licence to the mathcentre Community Project by Dr Matthew Copping, University of Kent and reviewed by Dr Scott Wildman, Medway School of Pharmacy. It is one of a series of 17 resources funded by a sigma Resource Development grant. At-a-Glance 16: Prevalence At a Glance - Pharmacy Calculations (Leaflet 16) covering calculating the prevalence of a condition within a given population. This resource has been contributed under a Creative Commons licence to the mathcentre Community Project by Dr Matthew Copping, University of Kent and reviewed by Dr Scott Wildman, Medway School of Pharmacy. It is one of a series of 17 resources funded by a sigma Resource Development grant. Share — copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt — remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation. No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. This textbook has been developed specifically for pharmacy technicians, but it also provides a good overview of health care mathematics for any health professional. This book teaches the following concepts: basic math review, 24-hour time, exponents, temperature conversion, units of measurement, understanding prescriptions, day's supply, extemporaneous compounding, billing compounds, pharmacy business math, parenteral dosage calculations, insulin, milliMoles, milliEquivalents, millicuries, and international units, powder volume calculations, percentage strength, ratio strength, parts, reducing & enlarging formulas, parts per million, calculations based on body weight, calculations based on body surface area, infusion rates & drip rates, dilutions & alligations, parenteral nutrition, and aliquots. This book also includes an answer key to check your work against. Learn more about this book by exploring this site or by even downloading a copy of this book for free. Sean Parsons, the primary author of both this website and the book that this website is designed to promote, has an impressive record of teaching and working in the industry to help him prepare a quality textbook. He has been teaching various pharmacy courses, including pharmacy math, since 2006 at Bidwell Training Center. Prior to that he was the pharmacy trainer for the University of Pittsburgh Medical Center where he worked for nine years. Prior to that he worked eight years for the West-Penn Allegheny Health System. Sean is also the president of a non-profit pharmacy in the Pittsburgh area. While Pharmaceutical Calculations is the first book written by Sean, he has had other writing projects specific to pharmacy. He wrote the Instructor's Manual for Robert Beardslay's Pharmacy Communications, 6th Edition, McGraw-Hill Publishing, 2011. Sean has also written a number of articles at Rx-Wiki including an article on Federal pharmacy law. To learn more about Sean, you may download his CV resume here. Formula library Unit 4 - Institutional Pharmacy Math Chapter 15 - Parenteral Dosage Calculations