

ADDITIONS, CORRECTIONS, AND DELETIONS TO *PHARMACEUTICAL CALCULATIONS* 13TH ED. BY H. ANSEL

NOTE: When no units are given, assume grams for solids and milliliters for liquids.

Chapter 2 - International System of Units

Some of the problems include prefixes that you are not responsible to memorize.

However, they are still good for practice.

#30, #37, #43, #47, and #48 - include conversions to inches which is really part of the intersystem conversions, but I think you can handle it.

#46 - note that "cg" or centigrams is not commonly used

Chapter 3 - Pharmaceutical Measurement

#6 - under the wrong heading since it's a measurement of weight and the answer at the end of the chapter is wrong

#7 - 9 - since not enough information is given to calculation the minimum measurable amount, assume the smallest amount is 2 mL.

Chapter 4 - Interpretation of Prescriptions and Medication Orders

#4 - don't calculate percent compliance rate

#6 - this information is not really covered until chapter 7, but I worked it out if you're curious...

Chapter 5 - Density, Specific Gravity, and Specific Volume

#10, 12 - 15 - Skip

#29 - not really a specific gravity problem

Chapter 6 - Percentage, Ratio Strength, and Other Expressions of Concentration

#32 - Specific gravity of glycerin is missing. Sp.g. = 1.25

#60 - Ratio strength calculated must be w/w.

Chapter 7 - Calculation of Doses: General Considerations

#28 - Beclovent was removed from the market in about 2005, but you can still do the calculation

#29 - Calculate for 10-week regimen as described. "16 week regimen" as described in the first sentence is incorrect

Chapter 8 - Calculations of Doses: Patient Parameters

#41, 47 - Use equation to calculate BSA, all others use nomograms unless otherwise specified

Chapter 9 - Some Calculations Involving Measures of Potency

#9 - Calculate how many tablets would be needed to prepare the prescription. Don't explain how to prepare the formula.

Chapter 10 - Selected Clinical Calculations

Work only #11 - 21

Chapter 11 - Isotonic and Buffer Solutions

#2b, 3, 4c, 5, and 6 - Skip

#10 - Assume that the specific gravity of the buffer solution is 1

#21 - Use the NaCl equivalent method, not the freezing point depression method

#33 - 39 - Skip (buffer calculations)

Chapter 12 - Electrolyte Solutions: Milliequivalents, Millimoles, and Milliosmoles

#6 - The molecular weight is for calcium chloride dihydrate ($\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$)

#49c - Should read "osmolarity" instead of "osmolality".

#54 - Osmolarity is milliosmoles per LITER, not milliliter as stated in the problem

#59 - 60 - Skip

Chapter 13 - Intravenous Infusions, Parenteral Admixtures, and Rate of Flow Calculations

#18 - potassium dihydrogen phosphate = potassium phosphate monobasic

potassium monohydrogen phosphate = potassium phosphate dibasic

#26 & 33 - Don't use the nomogram!

#40 - Calculate the flow rate in gtts/minute

Chapter 14 - Enteral & Parenteral Nutrition, Body Mass Index, & the Food Nutrition Label

#5 - 7 - Skip

#11 - Answer at the end of the chapter is wrong

#19 - 25 - Skip

Chapter 15 - Dilution, Concentration, and Alligation

#15 - answer at the end of the chapter is incorrect (should be "q.s. 8831.67 mL with water")

#23 - 8 mL is the final volume of the solution...problem is badly worded

#53 - Amounts of gels are in grams rather than milliliters, since percentages are w/w

#59 - SKIP!

#60b - answer at the end of the chapter is wrong (should be 0.25% w/v)

#66 - the vial contains 1-mL of the drug solution

#69 - answer at the end of the chapter is slightly off, maybe due to a rounding error

Chapter 16 - Reducing and Enlarging Formulas

#10 - answer at the end of the chapter is incorrect (should be "C" = 37.5 g)

Chapter 17 - Selected Calculations in Contemporary Compounding

#10b & c - answer at the end of the chapter is incorrect (should be 150 mL/hr and 50 gtt/min)

#39 - 41 - SKIP!

#44a - calculate the answer in milligrams rather than micrograms

Appendix A - Common Systems of Measurement and Conversion

#1 - 3 - Skip!

#4 - Answer should be "bottles" not "tablets" as shown at the end of the chapter

#25 - 26 - Skip since we won't cover this part of proof strength

Appendix B - Graphical Methods

#5f - answer at the end of the chapter is incorrect (should be "-0.064 days⁻¹")

Review Problems...pp. 401 - 419

#24 - Answer at the end of the section is incorrect. It should be 0.06% w/v

#35b - Answer at the end of the section is incorrect. It should be 1:6666.67 w/v

#44b - Answer at the end of the section is incorrect. It should be 256.41 mmol

#52 - 60 - Skip

#73 - Answer at the end of the section is incorrect. It should be 29 tablets.

#134 - Answer at the end of the section is incorrect. It should be \$3822.

#135 - Skip

#138 - Skip

#153 - refers to #155 rather than the problem above as stated

#157 - Answer at the end of the section is incorrect. It should be 1507.78 kcal/day and
60 g/day

#159 - Skip

#161 - 162 - Skip

#165 - Skip

#167 - 172 - Skip