

# Download Calculations Of Medications Using The Proportion

When writing the ratio and proportion using the colons, the known ratio, what you have available or the information on the medication label, is stated first, and the unknown ratio is stated second.  $50 \text{ mg}:1 \text{ mL}=25 \text{ mg}:x \text{ mL}$ (known)(unknown) To solve for x, use the principles presented in Chapter 4 on ratio and proportion. Performing the Calculations Needed for Medication Administration Safe nursing care mandates accuracy in the calculation of dosages and solution rates. In this section you will get a brief review of basic arithmetic calculations and a review of the ratio and proportion method that is used for the calculation of dosages and solutions. Calculate medication dosages by applying ratio and proportion, dimensional analysis or formula method. Use proper nomenclature for household, apothecary and metric systems. Ideal Body Weight (IBW) Drug dosing by IBW is used for medications that are poorly absorbed and distributed throughout body fat, such as IV gentamicin and IV acyclovir. <sup>3</sup> The most commonly used IBW calculation, the Devine Formula, is based on height; also, separate formulas exist for men and women (listed below).