## Medical Math Formulas

## Finding ordered dose:

 $x = \frac{\text{(volume on hand) (ordered dose)}}{\text{(concentration on hand)}}$ 

# Finding units per kilogram

x = (ordered dose) (weight [kg])1 kg

## Finding the concentration of a solution

x = solute (grams or milligrams of drug) solvent (liters or milliliters of volume)

## Calculating an IV drip

 $x = \frac{IV \text{ bag volume}}{Amount \text{ of drug in bag}}$  x  $\frac{\text{unit ordered}}{1 \text{ min.}}$  x  $\frac{\text{administration set (gtt)}}{1 \text{ mL}}$ 

## Milliliters per hour to drops per minute

 $\begin{array}{cccc} x = & \underline{order\ amount\ (mL)} & x & \underline{administration\ set\ (gtt)} \\ & order\ time\ (min.) & 1\ mL \end{array}$