Practice Problems
Calculation for Drug Dosages

1. Your patient with diabetes receives Glipizide 10 mg po every morning. The drug is supplied in 5-mg scored tablets. How many tablets will you administer?

    Formula is $\underline{Desired}$ = $\underline{10\ mg}$ = 2 tablets
    　　　　　　 Have 　　　　5 mg

2. A patient has an order for 1000 ml of D$_5$LR over 5 hours. How many ml/hr should the IV pump be programmed for?

    Formula is $\underline{Volume\ (ml)}$ = $\underline{1000\ ml}$ = 200 ml/hr
    　　　　　　 Time (hrs) 　　　　5 hrs

3. The physician orders Heparin 2500 Units SQ every twelve hours for your patient. You have Heparin 5000 Units per ml available. How many milliliters will you administer?

    Formula is $\underline{Desired}$ x Volume = $\underline{2500\ Units}$ x 1 ml = 0.5 ml
    　　　　　　 Have 　　　　　　　　5000 Units

4. Your patient is to receive Vistaril 60 mg po every six hours for relief of nausea. Vistaril oral suspension, 25 mg per 5 ml, is supplied. How many milliliters will you administer?

    Formula is $\underline{Desired}$ x Volume = $\underline{60\ mg}$ x 5 ml = 12 ml
    　　　　　　 Have 　　　　　　　　25 mg

5. A patient with oliguria has an order for 500 ml of 0.9% NS IV over 4 hours. The drop factor is 10 gtt/ml. How many gtt/min should be given?

    Formula is $\underline{Volume\ (ml)}$ x Drop Factor (gtt/ml) = $\underline{500\ ml}$ x 10 gtt/ml = 20.8 or 21 gtt/min
    　　　　　　 Time (min) 　　　　　　　　　　　　240 min