

**Bethel College**

**Upper Level Math/Drug Proficiency Spring Review 2**

Calculate the following problems. Unless indicated, all medications involving mL greater than 1 should be rounded to the nearest tenth. Answers in mL that are less than 1 should be rounded to the nearest hundredth. All answers involving tablets should be recorded in terms of # of tabs (or ½ tabs).

1. You are caring for a post-op patient and have orders to give Mefoxin 1 gram IVPB every 8 hours. The medication comes mixed from pharmacy in a 50 mL IVPB. The drug book states to administer the medication over 40 minutes. How fast will you give this medication in both mL/hr and gtts/min with IV tubing that has a drop factor of 10 gtts/mL?  
\_\_\_\_\_mL/hr                      \_\_\_\_\_gtts/min
  
2. The physician has ordered Diflucan 200 mg to be given IVPB. The pharmacy sends the medication mixed in 100 mL. The drug book states to administer the medication over 1 hour. How fast will you administer this medication in both mL/hr and gtts/min with IV tubing that has a drop factor of 20 gtts/mL?  
\_\_\_\_\_mL/hr                      \_\_\_\_\_gtts/min
  
3. You have orders to give Lasix 100 mg IVPB every 12 hours. Pharmacy sends the medication in 100 mL of D5W. The drug book states to administer at a rate of Lasix 2 mg/min. How fast will you administer this medication? The label reads D5W 100 mL, Lasix 100 mg (10 mL).  
\_\_\_\_\_mL/hr



8. You have orders to give gr  $\frac{1}{2}$  of Codeine for pain management. The tablets come with 30 mg per tablet. How many tablets will you administer?  
\_\_\_\_\_tab

9. You have orders to give gr  $\frac{1}{8}$  of Morphine Sulfate. The medication comes prepared with 10 mg/mL. How much will you administer?  
\_\_\_\_\_mL

10. You have orders to immediately start your patient with ventricular concerns on a Lidocaine drip at 1 mg/min. The medication comes prepared from pharmacy with 2 grams in 500 mL. The patient weighs 120 pounds. How fast will you administer this medication?  
\_\_\_\_\_mL/hr

11. You are caring for a patient who is in atrial fib with a fast ventricular response who has not responded to other medications. The physician orders Amiodorone 150 mg bolus over 10 minutes and then a continuous drip at 1 mg/min for 6 hours. The pharmacy sends the bolus in 100 mL. The continuous infusion comes prepared with 450 mg in 250 mL. How fast will you administer the bolus and the continuous infusion?  
Bolus \_\_\_\_\_mL/hr                      Continuous \_\_\_\_\_mL/hr

12. You have orders to administer Dilantin 8 mg/kg/day in divided doses to be given every 6 hours for a young child with seizures. The child weighs 25 pounds. The Dilantin comes prepared with 150 mg/5 mL. How many mL will you administer per dose?

\_\_\_\_\_mL/dose