

**Bethel College**

**Lower Level Math/Drug Proficiency Spring Review 1**

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  $\frac{1}{2}$  tabs).

1. You have orders to give Furosemide 60 mg. Available are Lasix 20 mg per tablet. How many tablets will you administer?  
\_\_\_\_\_tab.
2. Prepare 200 mg oral dosage of paramethadone from available strength 300 mg per mL. How much will you administer?  
\_\_\_\_\_mL.
3. NeoCalglucon syrup has a dosage strength of 345 mg per 15 mL. You need to give 575 mg. You would give \_\_\_\_\_mL.
4. Benztropine mesylate 1500 mcg has been ordered. Dosage strength available is 0.5 mg tabs. How many tabs would you need?  
\_\_\_\_\_tab.
5. An oral solution of KCL contains 40 mEq per 30 mL. The order reads to give 30 mEq KCL. You would need \_\_\_\_\_mL.
6. Codeine strength 15 mg tabs available. Prepare a gr  $\frac{1}{2}$  dosage. \_\_\_\_\_tab.



13. A physician orders the IV reduced to 50 mL/hr. You have decided to use microdrip tubing with 60 gtts/mL. How fast will you administer the IV in gtts/min?  
\_\_\_\_\_gtts/min.

14. You are infusing IV solution at 150 mL/hr. How many gtts/min will this be with IV tubing with a drop factor of 20 gtts/mL?  
\_\_\_\_\_gtts/min.

15. You have orders to give Rocephin 1 gram IVPB every 24 hours. The medication comes prepared from pharmacy in 50 mL. The drug book states to administer the medication over 30 minutes. How fast will you administer this medication using both mL/hr and gtts/min with IV tubing with a drop factor of 15 gtts/mL?  
\_\_\_\_\_mL/hr. \_\_\_\_\_gtts/min.

16. You have orders to give Levaquin IVPB 500 mg in 100 mL D5W. The drug book states to administer it over 1 hour. How fast will you set your IV pump to administer this medication? How fast will you administer it using gtts/min with IV tubing with a drop factor of 10 gtts/mL?  
\_\_\_\_\_mL/hr. \_\_\_\_\_gtts/min.

17. You are caring for a patient following a hysterectomy. She has orders for 500 mg Kefzol IVPB every 8 hours for 3 doses. The medication comes mixed from pharmacy in 60 mL. The drug book tells you to administer the medication over 20 minutes. How fast will you set your IV pump? \_\_\_\_\_mL/hr.

18. The physician has ordered IVP Solu-Medrol 80 mg every 8 hours. The medication comes prepared with 120 mg in 2 mL. How much will you administer?  
\_\_\_\_\_mL.

19. You have orders to give IVP Lasix 60 mg to your patient with HF. The medication comes prepared with 20 mg/mL. How much will you administer?  
\_\_\_\_\_mL.

20. You are caring for a patient with a suspected DVT. The physician orders a Heparin bolus for them of 60 units/kg. The patient weighs 165 lbs. The Heparin comes from pharmacy in a vial with 10,000 units per 1 mL. How much will you administer in both units and mLs?  
\_\_\_\_\_units. \_\_\_\_\_mLs.

21. Now you have orders to start the patient from question #20 on a Heparin drip at 12 units/kg/hr. The Heparin comes prepared from pharmacy with 25,000 units in 500 mL. How many units per hour will the patient be receiving and what will you set your IV pump at to deliver this dose?  
\_\_\_\_\_units/hr. \_\_\_\_\_mL/hr.

22. The order is to infuse IV D5W at 100 mL/hr. Calculate rate of flow if set calibration is 20 gtts/mL. \_\_\_\_\_gtts/min.

23. Morphine is available as a gr  $\frac{1}{4}$  per mL solution. You need to prepare a gr  $\frac{1}{6}$  dose. Give \_\_\_\_\_mL.

24. Procan SR 1.5 g is ordered and you have Procan SR 750 mg sustained release tablets. You will give \_\_\_\_\_ tab.

25. Determine the infusion time for an IV which contains 600 mL of D5 1/2 NS and is infusing at a rate of 125 mL/hr. \_\_\_\_\_ hours.