<u>Dosage Calculation Worksheet #2</u>

1. The IV order is for D_5W to infuse at 100 mL/hr. The drop factor is 10 gtt/mL. How many drops per minute (gtt/min) should the pump be set to run? Round final answer to whole number. <u>17ggt/min</u>

    100 / 60 x 10= 16.6 -> 17

2. Medication order: Rocephin 1 g IV every 12 hours over 30 minutes. Available: rocephin 1 g in 150 mL NS. At what rate would you set your pump? <u>300mL/hr</u>

    150 x 2= 300

3. Medication order: Vistaril 20 mg IM q4h PRN for nausea. The 10 mL vial that you have available is labeled 25 mg/mL. How many mL will you draw up to give? <u>0.8mL</u>

    20 / 25= 0.8

4. Medication order: Haldol 3 mg IM q6h PRN for agitation. The 1 mL vial that you have available is labeled 5 mg/mL. How many mL will you draw up to give? <u>0.6mL</u>

    3 / 5= 0.6

5. Medication order: heparin 5000 units subQ every 12 hours. Drug available: heparin 10,000 units/2 mL. How many mL will you administer for the day? <u>2mL</u>

    5000 / 10,000 x 2= 1   24 / 12= 2

    1 x 2= 2

6. A patient has an order for 200 mg q8h of cimetidine (Tagamet) to be administered intramuscularly. The vial of 8 mL contains 300 mg per 2 mL. How many mL would you give q8h? <u>1.3mL</u>

    200 / 300 x 2= 1.3

7. Medication order: Garamycin 80 mg IVPB over 30 minutes. Available: Garamycin (gentamicin sulfate) 80 mg in 50 mL of D_5W. Calculate the flow rate in mL/hr. 100mL/hr

> 80 / 80 x 50= 50   50 x 2= 100

8. You have an IV infusing at 125 mL/hr. How long will it take 1500 mL to infuse? 12mL

> 1500 / 125= 12

9. Medication order: rocephin g 1 IV every 12 hours over 30 minutes. Available: rocephin 1 g in 150 mL NS. At what rate would you set your pump? 300mL/hr

> 150 x 2= 300

10. An infusion pump is set to administer 75 mL/hr to a patient. How many hours will it take for the patient to receive 600 mL of fluid? 8hrs

> 75 / 600 x 60= 7.5 -> 8

11. A patient is to receive lidocaine hydrochloride (Xylocaine) 100 mg as an intravenous bolus. The Xylocaine is labeled 20 mg/mL. How many milliliters should be administered? 5mL

> 100 / 2= 5

12. Medication order: 50 mg/kg/day. Patient weight: 85.8 pounds. The patient will receive _____ mg/day. 1,950mg/day

> 85.8 / 2.2= 39   50 x 39= 1,950

13. Medication order: Amoxicillin 2.5 mL every 8 hours. Available is Amoxicillin 250 mg/5mL. The nurse will administer how many mg for the day? <u>375mg</u>

   2.5 / 5 x 250 x 3= 375   (24 / 8= 3)

14. Medication order: Ondansetron 2 mg – 4 mg/kg/Q 4 hours po PRN nausea. The patient weighs 66 lbs. What is the minimum amount of medication in grams that can be administered every 4 hours? <u>0.06g</u>

   66 / 2.2= 30   2 x 30= 60 -> 0.06

15. Medication order: 5 mL of normal saline is added to a vial of Lasix 20 mg/5 mL. How many milligrams of Lasix are in each millimeter of fluid? <u>2mg</u>

   5 + 5= 10   20 / 10= 2