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Dosage Calculation Worksheet #2

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.

$\frac{100\ mL}{1\ hr} \times \frac{10\ gtt}{mL} \times \frac{1\ hr}{60\ min} = 16.67 = \boxed{17\ gtt/min}$

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? $\frac{150\ mL}{12.5\ hrs} = \boxed{12\ mL/hr}$

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?

$20\ mg \times \frac{1\ mL}{25\ mg} = 0.8\ mL \times 10\ mL = \boxed{8\ mL}$

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?

$3\ mg \times \frac{1\ mL}{5\ mg} = \boxed{0.6\ mL}$

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?

$5000\ units \times \frac{2\ mL}{10000\ units} = 1\ mL \times 2 = \boxed{2\ mL/day}$

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?

$200\ mg \times \frac{2\ mL}{300\ mg} = \boxed{1.33\ mL}$

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.

$\frac{50\ mL}{0.5\ hr} = \boxed{100\ mL/hr}$