

Dosage Calculation Worksheet #2

1. The IV order is for D₅W 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.

Q: 100 mL/hr
10 gtt/mL

$$\frac{100 \text{ mL} \times 10 \text{ gtt/mL}}{60 \text{ min}} = 16.66$$

A: 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?

Q: Rocephin 1g IV every 12 hr over 30 min

A: Rocephin 1g/150 mL

$$\frac{150 \text{ mL}}{0.5} = 300 \text{ mL per hour}$$

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?

Q: Vistaril 20 mg IM q4h

A: 25 mg/mL

$$\frac{20 \text{ mg} \times 1 \text{ mL}}{25 \text{ mg}} = 0.8 \text{ mL}$$

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?

Q: 3 mg

A: 5 mg/mL

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

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?

Q: 5000 units every 12 hrs

A: 10,000 units/2 mL

$$\frac{5000 \times 2 \text{ mL}}{10,000} = 1$$

1 x 2 = 2 mL

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?

A: 1.3 mL

$$\frac{200 \text{ mg} \times 2 \text{ mL}}{300 \text{ mg}} = \frac{400}{300} = 1.33 \text{ mL}$$

7. Medication order: Garamycin 80 mg IVPB over 30 minutes. Available: Garamycin (gentamicin sulfate) 80 mg in 50 mL of D₅W. Calculate the flow rate in mL/hr.

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