

### Dosage Calculation Worksheet #3

1. Medication order: Heparin 25,000 units in 500 mL, infuse 4000 units/hr.

How many mL per hour do you need to infuse to deliver 4000 units/hr?

$$\frac{25,000}{500} = 50 \quad \frac{4000}{50} = 80 \text{ mL/hr}$$

2. Medication order: Lidocaine 8 mg in 250 mL, infuse at 10 mcg/min. How

many mL per hour do you need to infuse to deliver 10 mcg/min?

$$320 \text{ mL}$$

3. Medication order: Aminophylline 1 gram in 250 mL, infuse 25 mg/hr.

How many mL per hour must you infuse to deliver 25 mg/hr?

$$6.25$$

$$\frac{1000}{250} \times 25$$

4. Medication on hand: Insulin 75 units in 125 mL. How many units per mL?

$$= 0.6 \text{ units}$$

$$\frac{75}{125 \text{ mL}}$$

5. Medication order: Unipen 750 mg IM q6h. Available: Unipen 1 g/2.5 mL

after it has been reconstituted. How many mL of the reconstituted

solution will you administer? Round answer to the nearest tenth.

$$\frac{750 (2.5)}{1000} = 1.9 \text{ mL}$$

6. A nurse is administering an antibiotic via IVPB. The pharmacy dispenses

150 milligrams (mg) of antibiotic mixed in 250 milliliters (mL) of normal

saline to infuse over 30 minutes. The nurse will set the infusion pump at

\_\_\_\_\_ mL/hour to administer the IVPB.

$$250 (2) = 500 \text{ mL/hr}$$

7. Administer 3.5 mL of aminophylline liquid (250 mg/2.5mL) PO for pain

now. The nurse will administer  milligrams.

$$3.5 \text{ mL}$$

$$\frac{3.5 (2.5)}{2.50}$$

8. Order: Administer cephazolin 60 mg IM daily. Available is a 5 mL vial of cephazolin 100 mg/mL. The nurse should administer how many mL?

$$3 \text{ mL}$$

$$\frac{60 (5)}{100}$$