

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

$$1500 \text{ mL} / 125 \text{ mL per Hr} = \boxed{12 \text{ Hrs}}$$

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?

$$D = 1 \text{ g} \quad \frac{D}{H} \left( \frac{1 \text{ g}}{150 \text{ mL}} \right) \rightarrow \frac{1 \text{ g}}{150 \text{ mL}} = \boxed{150 \text{ mL/Hr}}$$

$H = 150 \text{ mL}$   
 $V = 150 \text{ mL}$

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?

$$600 \text{ mL} / 75 \text{ mL per Hr} = \boxed{8 \text{ Hrs}}$$

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?

$$D = 100 \text{ mg} \quad \frac{D}{H} \left( \frac{100 \text{ mg}}{20 \text{ mg}} \right) = \boxed{5 \text{ mL}}$$

$H = 20 \text{ mg}$   
 $V = \text{mL}$

12. Medication order: 50 mg/kg/day. Patient weight: 85.8 pounds. The patient will receive \_\_\_ mg/day.

$$85.8 \text{ lbs} / 2.2 \text{ kg} = \underline{39 \text{ kg}}$$

$$39 \text{ kg} (50 \text{ mg}) = \boxed{1950 \text{ mg/day}}$$

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?

$$\div 2 = (125 \text{ mg} / 2.5 \text{ mL})$$

$$24 \text{ hrs} / 8 = 3 \times \text{day}, \rightarrow 3 (125 \text{ mg}) = \boxed{375 \text{ mg/day}}$$

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?

$$2 \text{ mg/kg} (30 \text{ kg})$$

$$= \boxed{60 \text{ mg min q4 Hrs}}$$

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?

$$20 \text{ mg} / 5 \text{ mL} = \boxed{4 \text{ mg}} \text{ in } \underline{\text{EACH mL}}$$