

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

$$1500 \text{ mL} \times \frac{\text{hr}}{125 \text{ mL}} = \boxed{12 \text{ hr}}$$

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?

$$\frac{\text{volume}}{\text{time}} = \frac{150 \text{ mL}}{12.5 \text{ hrs}} = \boxed{12 \text{ mL/hr}}$$

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?

$$600 \text{ mL} \times \frac{1 \text{ hr}}{75 \text{ mL}} = \boxed{8 \text{ hr}}$$

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?

$$100 \text{ mg} \times \frac{1 \text{ mL}}{20 \text{ mg}} = \boxed{5 \text{ mL}}$$

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

$$85.8 \text{ lbs} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 39 \text{ kg} \times \frac{50 \text{ mg}}{1 \text{ kg}} = \boxed{1950 \text{ mg/day}}$$

13. Medication order: Amoxicillin 2.5 mL every 8 hours. Available is Amoxicillin 250 mg/5 mL. The nurse will administer how many mg for the day?  $\frac{24}{8} = 3 \text{ x/day}$

$$2.5 \text{ mL} \times \frac{250 \text{ mg}}{5 \text{ mL}} = 125 \text{ mg} \times 3 = \boxed{375 \text{ mg/day}}$$

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?

$$66 \text{ lbs} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = 30 \text{ kg} \times \frac{2 \text{ mg}}{1 \text{ kg}} = \boxed{60 \text{ mg Q 4 hr}}$$

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?

$$\frac{20 \text{ mg}}{10 \text{ mL}} = \boxed{2 \text{ mg/mL}}$$