N301 Adult Health I

Lab Week 1

Name: **Justin Pranada**   Date: **Jan. 18, 2020**

Math Practice Questions

1. Express the following number to the nearest hundredth.
   a. 2.345 =   **2.35**
2. Solve the following equation. Express your answer to the nearest tenth.
   a. 55 x 0.15 = 8.25   **~8.3**
3. Solve the equation. Express your answer as a decimal fraction to the nearest tenth.
   a. 0.114 x 3.2 = 0.3648   **0.36**
4. You are to give 1,250 mg of a medication and you receive 250 mg tablets from the pharmacy. How many tablets would you administer?
   a. (250mg/1 tablet) * (1,250mg) = **5 tablets**
5. You have to administer a combination drug that combines 25 mg of medication A and 6.25 mg of medication B. Pharmacy has given you 12.5 mg tablets of medication A and 12.5 mg of medication B. How many tablets of medication B would you given?
   a. (12.5mg/1 **B** tablet) * (6.25mg) = **0.5 tablet**
6. You have to administer a prescription that combines two separate drugs of 50 mg of medication A and 12.5 mg of medication B. Pharmacy has given you 25 mg tablets of medication A and 6.25 mg of medication B. How many tablets of medication A would you give?
   a. (25mg/1 **A** tablet) * (50mg) = **2 tablets**
7. Express 750 mg in g
   a. **0.75g**
8. Express 0.75 mg in mcg
   a. 1mg = 1,000mcg   0.75mg * 1000 = **750mcg**
9. The nurse needs to infuse 250 mL over 45 minutes by infusion pump. At what rate per hour does the nurse set the pump?
   a. **6gtt/min** ???**
10. The doctor has ordered 1 liter D5W (IV fluid solution 5% dextrose and water) over 12 hours. At what rate per hour does the nurse set the pump?
    a. _____
11. Convert these body weights into kilograms. Round to the nearest tenth.
    a. 44.5 lbs = **20.2kg**
    b. 154 lbs = **70kg**
    c. 540 lbs = **245.5kg**
    d. 123 lbs = **55.9kg**
12. A doctor orders 75 mg of ceftriaxone to be taken by a 15 pound infant twice a day. The pharmaceutical reference states that 50-75 mg/kg/day is the appropriate dosage range. Is this doctor's orders within the desired range?
    a. _____
13. The most commonly used parenteral administration routes are: **B**
    a. Sublingual, intravenous, transdermal
    b. **Intravenous, intramuscular, and subcutaneous (ANSWER)**
    c. Intravenous, inhalation, and subcutaneous

14. Insulin can be administered by what other routes? **A**
    a. **Subcutaneous, intravenous, self-administered pens (ANSWER)**
    b. Intramuscular, inhalation, intradermal
    c. Subcutaneous, intradermal, sublingual
15. One balanced electrolyte solution is which of the following? **C**
    a. D5NS
    b. LR
    c. **0.9% NSS (ANSWER)**
    d. 0.45% NSS
16. Identify which of the following solutions is the weakest? **B**
    a. 1:1000
    b. **1:10,000 (ANSWER)**
    c. 1:5
17. There are two bottles of milk of magnesium on the shelf at the pharmacy. One bottle contains 9.5 oz and the other 300 mL. Which has the larger volume?
    a. **300mL bottle**
18. The recommended dose of Dilantin for a child is 3 mg/kg/24 hr given every 12 hours. The patient's weight is 10 lbs. The medication is supplied in 250 mg/10 mL.
    a. Calculate the weight for the child in kg   **4.5kg**
    b. Calculate the safe dose for the child in mg/dose   **13.5mg/dose**
    c. How many milliliters will be administered for each dose?   **0.54mL/dose**
19. The patient is ordered Tylenol elixir at 325 mg per 2 teaspoons (tsp.) How many mL would the nurse administer?
    a. **10mL**
20. An IV medication of 250 mL is started at 0750 to run at 33 gtts/min using a 10 gtts/mL set. How long will the infusion run?
    a. **75.8 minutes**