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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 _____8.3_____
3. Solve the equation. Express your answer as a decimal fraction to the nearest tenth.
    a. 0.114 x 3.2 _____0.4_____
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. _____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. _____1/2 or 0.5 Tablets_____
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. _____2 tablets_____
7. Express 750 mg in g
    a. _____0.75g_____
8. Express 0.75 mg in mcg
    a. _____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. _____6ml/hr_____
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. _____83ml/hr_____
11. Convert these body weights into kilograms. Round to the nearest tenth. 1kg 2.2
    a. 44.5 lbs = _____20kg_____
    b. 154 lbs = _____70kgs_____
    c. 540 lbs = _____245.5_____
    d. 123 lbs = _____55.9_____
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?15lb/2.2kg =6.8kg
    a. No this order is not within desired range. 50mg x 6.8kg=340mg & 75mg x 6.8kg=510 mg
    (professor I had trouble figuring this one out if you will please explain in class)
13. The most commonly used parenteral administration routes are:
    a. Sublingual, intravenous, transdermal
    b. Intravenous, intramuscular, and subcutaneous(non oral)

    c. Intravenous, inhalation, and subcutaneous

14. Insulin can be administered by what other routes?
    a. <mark>Subcutaneous, intravenous, self-administered pens</mark>
    b. Intramuscular, inhalation, intradermal
    c. Subcutaneous, intradermal, sublingual

15. One balanced electrolyte solution is which of the following?
    a. D5NS
    b. <mark>LR</mark>
    c. 0.9% NSS
    d. 0.45% NSS

16. Identify which of the following solutions is the weakest?
    a. 1:1000
    b. <mark>1:10,000</mark>
    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 is greater than 285_____

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 _____10lbs/2.2kg=4.6kg_____
    b. Calculate the safe dose for the child in mg/dose _____3mg x4.6kg=13.8mg/kg/d/2 =6.9mg/12hr
    c. How many milliliters will be administered for each dose? _____6.9mg/250mg x 10ml =0.3ml___

19. The patient is ordered Tylenol elixir at 325 mg per 2 teaspoons (tsp.) How many mL would the nurse administer? 1 tsp=5ml x 2(tsp) = 10 ml
    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?
    250/33gtts/min x10gtts =75.75 =76mins or 1hr:15mins end 0950
    a. _____