

N301 Adult Health I

Lab Week 1

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Math Practice Questions

1. Express the following number to the nearest hundredth.
  - a.  $2.345 = 2.34$
2. Solve the following equation. Express your answer to the nearest tenth.
  - a.  $55 \times 0.15 = 8.3$
3. Solve the equation. Express your answer as a decimal fraction to the nearest tenth.
  - a.  $0.114 \times 3.2 = 0.4$
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 (120mg/250mg)
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 give?
  - a. = 0.5 tablets (6.25mg/12.5mg)
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 (50mg/25mg)
7. Express 750 mg in g
  - a. =0.75 g.
8. Express 0.75 mg in mcg
  - a. =750 mcg
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. =333 mL/hr (250mL/ 45min = x/60 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. 83.3 (1000 mL/12)
11. Convert these body weights into kilograms. Round to the nearest tenth.
  - a. 44.5 lbs = 20.2 kg
  - b. 154 lbs = 70 kg
  - c. 540 lbs = 245.5 kg
  - 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?
  - a. No
13. The most commonly used parenteral administration routes are:
  - a. Sublingual, intravenous, transdermal
  - b. Intravenous, intramuscular, and subcutaneous**
  - c. Intravenous, inhalation, and subcutaneous

14. Insulin can be administered by what other routes?
- a. Subcutaneous, intravenous, self-administered pens**
  - b. Intramuscular, inhalation, intradermal
  - c. Subcutaneous, intradermal, sublingual
15. One balanced electrolyte solution is which of the following?
- a. D5NS
  - b. LR
  - c. 0.9% NSS**
  - d. 0.45% NSS
16. Identify which of the following solutions is the weakest?
- a. 1:1000
  - b. 1:10,000**
  - 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. 300 mL
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 = 4.5 kg (10/2.2)
  - b. Calculate the safe dose for the child in mg/dose = 13.5 mg/dose (3mg/kg / 1kg=x/4.5kg)
  - c. How many milliliters will be administered for each dose? 0.54 mL (13.5/250 x 10)
19. The patient is ordered Tylenol elixir at 325 mg per 2 teaspoons (tsp.) How many mL would the nurse administer?
- a. 10 mL (1tsp/5mL = 2tsp/10)
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. 1 hr 26 min (250mL/33gtts/min x 10 gtts/ml)