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## Math Practice Questions

- Express the following number to the nearest hundredth.
  - 2.345 2.35
- Solve the following equation. Express your answer to the nearest tenth.
  - $55 \times 0.15$  8.3
- Solve the equation. Express your answer as a decimal fraction to the nearest tenth.
  - $0.114 \times 3.2$  0.4
- 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?
  - 5 tablets
- 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?
  - 0.5 tablets
- 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?
  - 2 tablets
- Express 750 mg in g
  - 0.75g
- Express 0.75 mg in mcg
  - 750 mcg
- The nurse needs to infuse 250 mL over 45 minutes by infusion pump. At what rate per hour does the nurse set the pump?
  - 333 mL/hour
- 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?
  - 83 mL/hour
- Convert these body weights into kilograms. Round to the nearest tenth.
  - 44.5 lbs = 20.2 kg
  - 154 lbs = 70 kg
  - 540 lbs = 245.5 kg
  - 123 lbs = 55.9 kg
- 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?
  - Yes. the max dose per day is 510.8mg or 255.4 twice a day
- The most commonly used parenteral administration routes are:
  - Sublingual, intravenous, transdermal
  - Intravenous, intramuscular, and subcutaneous
  - Intravenous, inhalation, and subcutaneous

14. Insulin can be administered by what other routes?
- Subcutaneous, intravenous, self-administered pens
  - Intramuscular, inhalation, intradermal
  - Subcutaneous, intradermal, sublingual
15. One balanced electrolyte solution is which of the following?
- D5NS
  - LR
  - 0.9% NSS
  - 0.45% NSS
16. Identify which of the following solutions is the weakest?
- 1:1000
  - 1:10,000
  - 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?
- 300 mL 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.
- Calculate the weight for the child in kg 4.5 kg
  - Calculate the safe dose for the child in mg/dose 6.8 mg/dose
  - How many milliliters will be administered for each dose? 0.3 mL
19. The patient is ordered Tylenol elixir at 325 mg per 2 teaspoons (tsp.) How many mL would the nurse administer?
- 10 mL
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?
- 1.3 hours → 0908 end time

285 mL

## N321 Adult Health I

## Lab Week 1 Calculations

$$\textcircled{\#9} \quad \frac{250 \text{ mL}}{45 \text{ min}} \times \frac{60 \text{ min}}{1 \text{ hr}} = 333.33 \text{ mL/hr}$$

$$\textcircled{\#10} \quad 1 \text{ L} = \frac{1000 \text{ mL}}{12 \text{ hr}} = 83.33 \text{ mL/hr}$$

$$\textcircled{\#12} \quad \frac{\text{max dose}}{1 \text{ day}} = \left( \frac{75 \text{ mg}}{1 \text{ kg}} \right) \times 6.81 \text{ kg} = \frac{510.75 \text{ mg}}{1 \text{ day}} \times \frac{1 \text{ day}}{2 \text{ doses}} = \frac{255.4 \text{ mg}}{\text{dose}}$$

← max per day

$$\textcircled{\#20} \quad 250 \text{ mL} \times \frac{10 \text{ gtt}}{1 \text{ mL}} \times \frac{1 \text{ min}}{33 \text{ gtt}} \times \frac{1 \text{ hr}}{60 \text{ min}} = 1.26 \text{ hrs} \rightarrow 1.3 \text{ hrs}$$

0750 + 1.3 hrs  $\Rightarrow$  approx 0908 end time