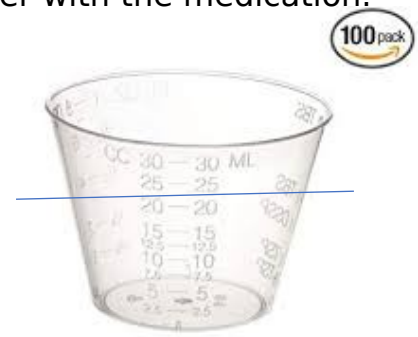
N322 Pharm Med Math #5

1. The provider has prescribed Mylanta Maximum (aluminum hydroxide/magnesium/simethicone) 20ml every 8 hours for peptic ulcer disease. Using the picture below, mark the level in which the nurse would fill the container with the medication.



2. The provider in the emergency department has prescribed Zofran (odansetron) oral disintegrating tablet (ODT) 8mg by mouth to a client with nausea and vomiting from viral gastroenteritis and mild dehydration. Available dosing is odansetron 4mg ODT in the pyxis. How many tablets will the nurse administer to this patient?

4 mg --- 1 tab
8 mg ---?
8/4 = 2 tabs
Answer: 2 tabs

3. What is the dosage in micrograms of the medication in the bottle pictured below?

1 mg ---- 1000 microgram
0.7 mg -----?
0.7 * 1000 = 700 microgram

4. The provider has prescribed Phenergan (promethazine) 25mg IM for a client. The nurse has obtained the vial below from the pyxis machine. How many mL will the nurse administer?

50 mg ----- 1 ml
25 mg -----?
25/50 = 0.5 mL

5. A client with diarrhea is prescribed Lomotil (diphenoxylate with atropine) 5mg by mouth 3 to 4 times daily. The client uses the call light and requests something for diarrhea. Last dose was 8 hours ago. Available dose for the medication is 2.5mg tablets. How many tablets will the nurse administer?

2.5 mg ------ 1 tab
5 mg --------?
5/2.5 = 2 tabs

6. The nurse is preparing to infuse 1 liter of LR using a 15gtt/ml IV tubing set to infuse via gravity. The LR is prescribed to infuse 1 liter over 10 hours. What is the IV drip rate per minute? Round to the nearest whole number.

1000 ml/ 600 minutes * 15 gtt/mL
25 gtts/min

7. The nurse is caring for a client on sliding scale insulin. The non-licensed assistive personnel has completed the point of care glucose level and notified the nurse of the result: 286. Using the sliding scale below, how much insulin will the nurse administer?

8 units

Blood glucose (mg/dL)	Insulin (units)
61-150	0
151-200	3
201-250	5
251-300	8
301-350	10
351-400	12
>400	15[a]

[a]Physician should be contacted.

8. The nurse is preparing to administer the prescribed insulin from question #7. Which syringe will the nurse use?

1st one

9. The nurse rechecks the next point of care glucose and the result is 406. Using the same sliding scale from question #7, what action(s) will the nurse take next?

15 units

10. Another nurse on the unit is asking for you to verify the correct dose of insulin she is preparing to administer. The nurse tells you that she is to administer 54 units of insulin. You visualize the syringe (pictured below). What is your next plan of action?

Dispose of extra insulin since it is currently at 65 and needs to be at 54 units