

**CHARITY SCHOOL OF NURSING
DELGADO COMMUNITY COLLEGE
NURSING OF THE ADULT CLIENT I**

PRACTICE CALCULATION EXAM #1

DIRECTIONS: Use the information given to calculate the following medication problems. **YOU MUST SHOW YOUR WORK TO RECEIVE CREDIT.**

You should practice reading labels as you will be expected to be able to get the appropriate information from a medication label to answer some of the questions.

Administration of Oral Medications

1. Order: Diabinese 0.1 gram PO daily.

 Supply: Diabinese 100 mg tablets.

 Answer: _____tablet(s)

2. Order: Lanoxin 0.125 mg PO qd.

 Supply: Lanoxin 0.25 mg tablets.

 Answer: _____tablet(s) per dose

3. Order: Tylenol gr 10 PO q 4 h prn headache.

 Supply: Tylenol 325 mg caplets.

 Answer: _____caplet(s) per dose

4. Order: Colestid 30 grams/day PO in three divided doses.

 Supply: Colestid 5 gram packets.

 Answer: _____packets per dose.

Administration of Oral Medications – Liquid Form

5. Order: Morphine Sulfate $\frac{1}{4}$ gr every 4 hours prn for pain.

Supply: Morphine Sulfate 8 mg/mL.

Answer: _____ mL(s) per dose.

6. Order: Zantac 150 mg PO B.I.D.

Supply: Zantac suspension 15 mg/mL.

Answer: _____ mL(s) per dose OR _____ tsp(s) per dose.

7. Order: Gantrisin Suspension 6000 mg/day in 4 divided doses.

Supply: Gantrisin Suspension 0.5 grams/5 mL.

Answer: _____ mL(s) per dose.

8. Order: Digoxin 25 mcg/kg/day PO.

Supply: Digoxin suspension 0.125 mg per 2.5 mL.

Client weighs 25 lbs.

Answer: _____ mL(s) per dose.

Parenteral Medications

9. Order: Fragmin 2500 I.U. SQ daily.

Supply: Fragmin 2500 I.U. per 0.5 mL.

Answer: _____ mL(s) per dose.

What type of syringe will be used?

10. Order: Demerol 75 mg IM q 3 - 4 hours prn pain.

Supply: Demerol 50 mg/mL.

Answer: _____ mL(s) per dose.

What type of syringe will be used?

11. Order: Heparin 10000 Units SQ q 12 h.

Supply: Heparin 40,000 Units per mL.

Answer: _____ mL(s) per dose (in a TB syringe)

12. Order: Lasix 30 mg IV Stat.

Supply: Lasix 40 mg/4 mL

Answer: _____ mL(s) per dose.

13. Order: Humulin R 17 Units and Humulin N 26 Units SQ at 0800.

Supply: Humulin R 100 Units/mL and Humulin N 100 Units/mL.

Answer: Using an insulin syringe, give the following:

Draw up _____ Units of Regular insulin and _____ Units of NPH insulin in the syringe, filling to the _____ Unit mark (total).

Draw _____ insulin first.

Medications Requiring Reconstitution

14. Order: Penicillin G 300,000 Units IM B.I.D.

Supply: Penicillin G 1 million Units (vial of powder).

Label Directions: Add 4.6 mL of sterile water for injection to make 200,000 Units/mL.

Answer: _____mL(s) per dose.

15. Order: Diamox 120 mg IM now.

Supply: Diamox 500 mg (vial of powder).

Label Directions: Reconstitute powder with 5 mL normal saline to make 100 mg/mL.

Answer: _____mL(s) per dose.

16. Order: Unasyn 50 mg/kg IVPB every 4 hours.

Supply: Unasyn 1.5 gram vial.

Client weighs: 70 kg

Label Directions: Reconstitute each vial with 4 mL sterile water for injection to yield 375 mg/mL.

Answer: _____mL(s) per dose added to 100 mL NS.

Intravenous Problems

17. Order: Mezlin 450 mg IVPB every 4 hours.

Supply: Mezline 1 gram vial.

Label Directions: Reconstitute each 1 gram with 10 mL of sterile water and further dilute in 50 mL NS to infuse over 30 minutes. (100 mg/1 mL)

How many mL's will you draw from the vial after reconstitution?

Answer: _____ mL(s)

Calculate mL/hr to set the IV pump.

Answer: _____ mL/hr.

Calculate the drops per minute with a drop factor of 15 gtts/mL

Answer: _____ gtts/minute.

18. Order: Infuse 250 mL NS over 5 hours.

Drop factor: 10 gtts/mL

Calculate the number of drops per minute.

Answer: _____ gtts/minute

19. Order: Oxacillin 500 mg q 8 hours IVPB.

Supply: Vials of Oxacillin powder labeled 2 grams.

Label Directions: Add 11.5 mL of sterile water to give 250 mg/1.5 mL.

Add: _____ mL(s) of Oxacillin to 50 mL NS for IVPB.

Miscellaneous Calculations

20. Order: Astelin Nasal Spray, 1 spray in each nostril B.I.D.

Supply: Astelin Nasal Spray 5 mL; each actuation (spray) delivers 137 mcg.

How many mcg of Astelin will the patient receive each day?

Answer: _____mcg.