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Medication Math Packet #2

INSTRUCTIONS

1. Complete the packet.
2. *Use the Answer Sheet to record your answers. The answer sheet is a fillable form. Fill it out, save it and send it to me as an attachment to an email through LMS.*

For MAC users: Save the form in Rich Text Format (RTF) so I can open it. Instructions to do that are:

- a. Open the document in Word on your Mac
 - b. Click the “Save as Type” drop-down menu and click the “Rich Text Format” option.
 - c. Then save the file and attach it to the email.
3. You can turn it in prior to the official due date.
 4. ***It must be turned in by the due date and time noted on the cover page.***
 5. ***If it is not turned in by the due date and time, it will result in an absence with academic penalty.***

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Instructional Module 1

Medication Math Packet # 2

Complete these conversions: Questions #1 to #5

1.	5 g	=	0.005 ? kg
2.	3.5 oz	=	105 ? mL
3.	75 lb	=	34.1 ? kg
4.	500 g	=	0.5 ? kg
5.	29.8 kg	=	65.45 ? lbs

6. Patient's intake during a 12-hour shift

Iced tea: 8 oz

Orange juice: 4 oz

Milk: $\frac{1}{2}$ c

Water: 32 oz

IV - D5W: 1.5 L

IV - Vancomycin: 250 mL

What is the total intake for this patient, measured in mL?

3190 mL

7. Patient's output during a 12-hour shift

0730 - Voided 250 mL

0825 - Emesis: 300 mL

1020 - Emesis: 0.5 L

1105 - Emesis: 1 c (Nasogastric [NG] tube inserted)

1430 - Voided 75 mL

1900 - NG tube drainage: 0.75 L

What is the total output for this patient, measured in mL?

2115 mL

8. Administer Amoxicillin 250 mg PO BID.

Available: 0.5 g/mL

What volume should be administered per dose?

0.5 mL

9. Order: Acetaminophen 30 mg/kg PO every 4 hours PRN fever 100.4°F or greater.

Patient's weight: 33 lbs

Available: Acetaminophen 12 mg/5 mL

How many mL should be administered for a single dose?

187.5 mL

10. Order: Vasotec 10 mg PO BID. Available: Vasotec 2.5 mg/tablet

How many tablets should be administered for the day?

8 tablets

11. Order: Ampicillin 500 mg X 1 dose.
Available: Ampicillin 225 mg /7.5 mL
How many mL should be administered?
16.7 mL

12. Administer atropine 0.4 mg IM now.
Available: atropine 0.2 mg/0.5 mL
How many mL should be administered?

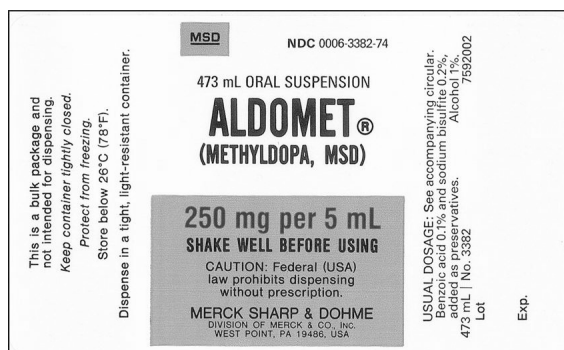
1 mL

13. Order: amoxicillin 75 mg PO TID.
Available: amoxicillin 50 mg/scored tablet.
How many tablets are required to deliver the dose for the entire day (24 hours)?

4.5 tablets

Use this information for Questions #14 and #15

The prescriber has ordered methyldopa (Aldomet) 200 mg IV now.
Pharmacy sent the medication



14. What is the first action you will take before obtaining the dose of medication?
Shake the bottle well
15. How many mL are required to deliver the dose?
4 mL

16. Order: zidovudine 0.2 g PO every 4 hours as needed for symptomatic HIV
Available: 750 mg scored tablets
How many tablets are needed to deliver the dose? Round to the nearest whole number.

I got 0.3 tablets, which would not round up, so 0 tablets.

17. Order: 50 milligrams of amoxicillin trihydrate orally tid
Available: 125 mg/5 mL syrup
How many mL should the nurse administer per dose?

2 mL

Use this information for Questions #18 to #20

The prescriber has ordered potassium penicillin G 125,000 units by injection for a patient.

Available is a vial of powdered potassium Penicillin G labeled 1,000,000 units.

The medication must be reconstituted with a diluent.

Round to the nearest 10th

Preparation of solution:

Diluent Added Final Concentration

- | | | | |
|-----|-------------------------------|--------|------------------|
| 18. | <u> 1.25 </u> mL | 9.6 ml | 100,000 units/ml |
| 19. | <u> 0.6 </u> mL | 4.6 ml | 200,000 units/ml |
| 20. | <u> 0.5 </u> mL | 3.6 ml | 250,000 units/ml |