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Medication Math Packet

Due Date: 4/9/2021

Time: 1600

Instructions

1. Complete the packet.
2. **Use the separate Answer Sheet to record your answers.**
3. **Turn in the Answer Sheet only to Mrs. Dutton by due date and time.**
4. You can turn it in prior to the official due date.
5. **Required score - 80%.**

Instructional Module 1

Medication Math Packet

1. A patient receives a 4 oz. bottle of cough syrup. The instructions are to take 1 ½ teaspoons QID until finished.
How many days will the bottle last?

Use this information for Questions #2 to #4

Order: 750 mg of a medication to be given in 3 equally divided doses daily

Available: 125 mg / scored tablet

2. How many mg of the drug should be given per dose?
3. How many tablets should be given per dose?
4. How many tablets should be given in 24 hours?

Complete these conversions - Questions #5 to #9

5. 30 mL = _____ tsp and _____ Tbsp
6. 17 kg = _____ lb
7. 480 mL = _____ oz
8. 186 lb = _____ kg
9. 150 lb = _____ kg
10. Order: Administer 50 mg of medication PO BID
Available: Liquid medication - 250 mg/10 mL
How many mL per dose?

Use this information for Questions #11 and #12

A patient is to take 2 teaspoons of a liquid medication every 6 hours x 8 days.

11. How many teaspoons per day?
12. How many teaspoons at the end of 8 days?

13. 30 mg = ____ g

14. 5 tsp = ____ mL

Complete these conversions: Questions #15 to #19

15. 15 mL = ____ oz

16. 10 mg = ____ mcg

17. 5.8 mcg = ____ g

18. 5 g = ____ kg

19. 3.5 oz = ____ mL

20. Calculate the fluid intake in mL for the items
3 oz. grape juice + 6 oz. broth + 9 oz. coffee + 12 oz. soft
drink

21. Administer 1.5 g PO daily in three equal doses
What is the dosage in mg per dose?

22. Administer 2.5 mg PO daily
Available: 40 mg/5 mL
What is the dose in mL?

23. Administer fluorouracil 6 mg/kg/day IV x 1 dose, not to
exceed 800 mg per day
Available: 1 g/20 mL
The patient weighs 200 lbs
How many mL for the dose?
Round to the nearest whole number
Is the dose safe?

24. Order: 500 mg PO daily
Available: 0.25 g/5 mL
What is the dose in mL?

25. A patient's output for the 3 to 11 pm shift:
1500 Urine: 325 mL + Emesis: 75 mL
2100 Urine: 225 mL
2200 NG tube drainage: 200 mL + wound drain 50 mL
What is the total in liters?

26. Order: Administer 30 mL of oral medication every 12 hours.
What is the total dose needed for a week's supply of the medication?
27. Order: Administer 3 Levothyroxine sodium tabs PO daily.
Available: 75 mcg/tablet.
How many mg will the patient take each day?
28. Write this decimal correctly one hundred twenty-five thousandths?

Complete these conversions: Questions - #29 and 30

29. 0.0006 L = _____? mL

30. 0.01 kg = _____? g

31. Intake for a patient
8 oz glass of iced tea + 4 oz carton of orange juice + $\frac{3}{4}$ pt of ice cream + 32 oz of water + 1 $\frac{1}{2}$ L of D5W IV
What is the total intake in mL for this patient?

32. Order: bupropion SR 50 mg PO bid
Available are 100 mg tablets.
How many tablets per dose?

33. Administer 2 g amoxicillin daily in 4 divided doses
Available: 500 mg capsules
How many mg per dose?

34. Order: clindamycin 250 mg IM every 12 hours
Available: 600 mg/3 mL
Round to the nearest 10th: how many mL are required to administer a single dose?

Complete these conversions: Questions #35 to #38

35. 1 L = _____ mL

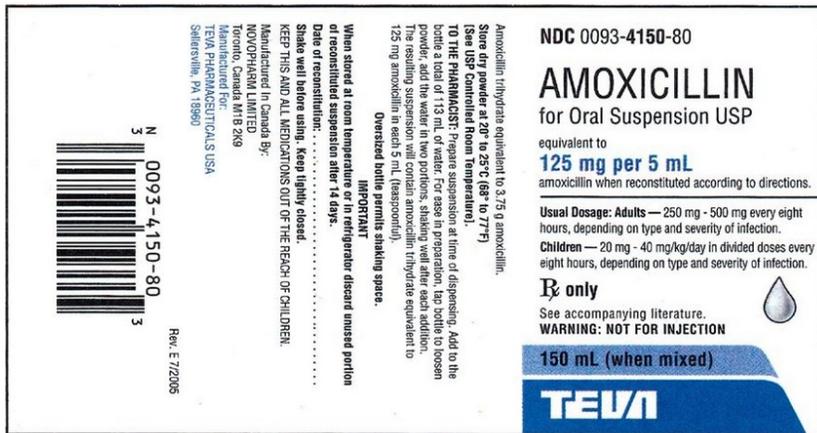
36. 10 g = _____ mg

37. 250 lbs = _____ kg

38. 4 kg = g
39. Administer 250 mg PO daily of a medication
Available: 0.5 g/mL
What volume should be administered?
40. What is the correct way to write seven point four milligrams?
41. Administer 3 mL of a medication P.O. TID.
Available: 60 mg/mL.
How many mg will be administered per day?
42. Available: acetaminophen 160 mg /5 mL
Order: acetaminophen 480 mg PO every 4 hours PRN fever greater than 100.4°
What volume should be administered for a single dose?
43. True or false: An extended-release tablet can be cut in half or crushed.
44. Administer Morphine 7.5 mg IM now
Available: Morphine 10 mg/mL
What volume should be administered?
45. Administer Atropine 2.4 mg IM now
Available: Atropine 400 mcg/mL
What volume should be administered?
46. Order: Vasotec 10 mg PO bid
Available: Vasotec 2.5 mg/tablet
How many tablets should be administered for the day?
47. Administer chloral hydrate 200 mg X 1 dose
Available: chloral hydrate 250 mg/mL
What volume should be administered?
48. Administer acetaminophen 500 mg X 1 dose
Available: acetaminophen 200 mg /3.5 mL
What volume should be administered?

49. Order: ampicillin 500 mg X 1 dose
Available: ampicillin 225 mg /7.5 mL
What volume should be administered?
50. Administer chlorpromazine 16 mg X 1 dose
Available: chlorpromazine 5 mg /5 mL
What volume should be administered?
51. Administer atropine 0.4 mg is order IM now
Available: atropine 0.2 mg/0.5 mL
What volume should be administered?
52. Order: Administer 1.5 mg of a medication daily
subcutaneously
Available: 130 mg/5 mL.
What volume delivers the dose for this patient?
53. Available: 50 mg/tablet
Order: 75 mg PO tid
How many tablets are required to deliver the dose for the
entire day (24 hours)?
54. Order: 125 mg Carvedilol PO bid
Available: 0.2 g tablets.
How many tablets per day?
55. Order: 50 milligrams of amoxicillin trihydrate orally tid
Available: 125 mg/5 mL syrup
How many mL should the nurse administer per dose?

Use this information for Questions #56 to #62



- A. Not for injection
- B. 125 mg/5 mL
- C. 113 mL
- D. Room temperature, discontinue after 14 days, shake well
- E. Water
- F. 150 mL
- G. Liquid - oral suspension

Match the answers - A. to G. - with the numbered question

- 56. Form _____
- 57. Volume used to dilute _____
- 58. Mix with this diluent _____
- 59. Dosage strength when reconstituted _____
- 60. Total volume when reconstituted _____
- 61. Warning _____
- 62. Instructions _____

Use the following information to answer Questions #63 to #67, remembering to write the answers using proper unit of dispensing terminology.

An adult patient weighing 134 lb has an order for an antibiotic. The recommended dose range is **80-120 mg/kg/day** to be given in **3 divided doses.**

63. What is the patient's weight in kg?
 Answer: _____

64. What are the range doses?

Answer: _____

65. What amount of medication would be administered for the lowest range single dose?

Answer: _____

66. What is the highest dose in mg the patient can safely have in one full day?

Answer: _____

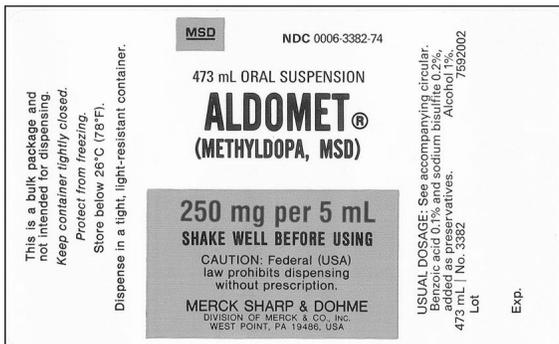
67. Order: zidovudine 0.2 g PO every 4 hours as needed for symptomatic HIV

Available: 100 mg scored tablets

How many tablets are needed to deliver the dose?

Use this information for Questions #68 and #69

The prescriber has ordered methyl dopa (Aldomet) 200 mg IV now, Pharmacy sent the medication



68. What is the first action you will take before obtaining the dose of medication?

Answer: _____

69. How many mL are required to deliver the dose?

Answer: _____

Use this information for Questions #70 and #71
Round both answers to the nearest whole number

Order: Amoxicillin 250 mg PO q 6 hours
Available: 750 mg/3 mL
The bottle contains 60 mL.

70. How many mL will the nurse instruct the patient to take daily?

71. How many days will the bottle of medication last?

72. Order: Aminophylline 40 milligrams intravenously once.
Available: Aminophylline 250 mg/10 mL liquid for IV injection.
How many mL should the nurse administer?

Use this information for Questions #73 to #75

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.

Using each of the dilutions from the label below, what volume of the final concentration would be administered? Round to the nearest 10th

Preparation of solution:

Diluent Added **Final Concentration**

73. _____ 9.6 ml 100,000 units/ml

74. _____ 4.6 ml 200,000 units/ml

75. _____ 3.6 ml 250,000 units/ml