

Math Packet 4

**Use the information for questions #1 to #4**

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Order: Administer cloxacillin 20-25 mg/kg/day IV q 6 hours

Available: 500 mg / 10 mL

Patient's weight: 44 lbs

Label warning: do not exceed 2500 mg per day

1. What is the single dose range in mg?
2. How many mL for the higher single dose?
3. What is the range in mg per day?
4. Is the dose safe?

**Use the information for questions #5 to #6**

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Order: Diphenhydramine 1-2 mg/kg Q4 IVP (DO NOT EXCEED 50MG IN A SINGLE DOSE)

Available: Diphenhydramine 50 mg/ml

Patient weight: 72 lbs.

5. What is the safe single dose range?
6. What is the volume needed to give the low dose?

**Use the information for Questions #7 to #9**

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Administer amoxicillin suspension 1 tsp TID X 7 days

Available: amoxicillin suspension 250 mg / mL

7. How many mg per dose?
8. How many mL per day
9. How many oz are required for the prescription?

**Use the information for Questions #10 to #11**

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Administer Cephalexin 500 mg PO BID for 10 days

Available: Cephalexin 250 mg / capsule

10. How many capsules should be administered daily?

11. How many capsules should be dispensed for the entire prescription?

**Use this information to answer Questions #12 to #15**

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.

12. What is the patient's weight in kg?

13. What are the daily range doses?

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

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

16. 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?

17. Order: levofloxacin 250 mg PO daily

Available: levofloxacin 0.25 g/0.5 mL

What is the volume of mL for the daily dose?

18.

NDC 63323-282-04 28204

**CLINDAMYCIN**  
**INJECTION, USP**

**600 mg/4 mL**  
**(150 mg/mL)\***

For IM or IV Use  
DILUTE BEFORE IV USE  
4 mL Single Dose Vial  
Rx only

Sterile

\*Each mL contains clindamycin phosphate equivalent to 150 mg clindamycin, 0.5 mg disodium edetate and 9.45 mg benzyl alcohol as a preservative. When necessary, pH adjusted with sodium hydroxide and/or hydrochloric acid.

Usual Dosage: See package insert.  
**Warning:** If given intravenously, must be diluted before use.  
Store at 20° to 25°C (68° to 77°F) (see USP Controlled Room Temperature).  
**Do not refrigerate.**  
Vial stoppers do not contain natural rubber latex.

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402129A

LOT/EXP



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Order: Administer clindamycin 250 mg q 12 hours

What is the quantity of mL to deliver a single dose?

Round to the 10ths.

19. Order: 20,000 units heparin IV in 250 mL to infuse at 25 units/kg/hr  
 The patient weighs 184 lbs.  
 How many units per hour will the patient receive?



20. The prescriber orders Vincasar 3 mg IM BID.  
 What volume of mL should the nurse administer per day?

21. Administer oral captopril 300 mcg / kg TID  
 Patient's weight: 46 lbs  
 On hand: oral elixir - captopril 0.1 mg / mL  
 How many mL are administered per dose? Per day?