

## Dosage Calculations (Tablet and Liquid)

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### Calculating Tablet Dosages

- 1) The prescriber has ordered 0.2 mg of the gastric acid inhibitor medication misoprostol (Cytotec). How many tablets will you administer to the patient if each tablet contains 200 micrograms?
- 2) A patient with tuberculosis has an order for the antitubercular drug ethambutol hydrochloride (Myambutol). Each tablet contains 400 milligrams. If the order is 1.6 grams po, how many tablets will you administer to the patient?
- 3) The patient has been prescribed 0.45 mg of clonidine hydrochloride (Catapres), an antihypertensive drug. The drug is available in 0.3 mg scored tablets. How many tablets equals the prescribed dose?
- 4) The order reads: azithromycin 7.2 mg/kg po qd. Each capsule contains 250 milligrams. How many capsules will you prepare of this antiviral drug for a patient weighing 154 pounds?
- 5) The order reads 6 milligrams of the antihypertensive drug Cardura. The label indicates that each scored tablet contains 4 milligrams of Cardura. How many scored tablets should be given to the patient po?
- 6) Order: sulfisoxazole (Gantrisin) 0.5 g  
Drug available: Gantrisin 250 mg per tablet.  
Find the number of tablets.
- 7) Order: digoxin 0.5 mg  
Drug available: 250 mcg per tablet.  
Find the number of tablets.
- 8) Order: codeine 100 mg  
Drug available: 40 mg per tablet.  
Find the number of tablets.



- 9) Order: prosom 2 mg q6h  
Drug available : 1 mg per tablet.
- (a) Find the number of tablets per dose.
  - (b) Find the time of the first four doses if the first dose is given at 0600hr.
- 10) A patient is prescribed 0.5 g of amoxicillin for a 24 hour period. The drug is offered in 25 mg tablets. If the medication is administered in 4 equal doses, find the number of tablets in each dose?
- 11) The order reads as follows: zidovudine 100 mg po qid. Tablets are 40 mg each. How many tablets will you administer to the patient in a day?
- 12) Amantadine hydrochloride (Symmetrel) is an antiviral drug, and 0.2 gram has been ordered for a patient. Each capsule contains 100 milligrams. How many capsules will you administer to the patient?
- 13) Your patient is to receive 0.125 milligram of the cardiac glycoside digoxin (Lanoxin) po. Each scored tablet contains 0.25 milligram. How many tablets will you administer to the patient?
- 14) Order: Keflex (cephalexin) 250 mg po q6h  
Supply: capsules labeled 500 mg. Find the number of capsules per day.
- 15) The patient has been prescribed 0.01 gram po of the antihistamine drug loratadine (Claritin). Each tablet contains 10 milligrams. How many tablets will you administer?
- 16) A doctor orders 420 mg of percocet q8h. Tablets come in 70 mg. Find the number of tablets:
- (a) per dose
  - (b) per day
- 17) A doctor has ordered 650 mg of procardia. The recommended dosage range is 35 mg/kg to 45 mg/kg. If the patient weighs 15 kg, does the dose fall between the recommended range?
- 18) A patient was prescribed 3 tablets of nicronase at 150 mg per tablet. If the recommended dose is 1200 mg to 1600 mg in 3 divided doses, determine if the dosage falls within the recommended range.



## Calculating Liquid Dosages

All answers should be rounded to the nearest tenth.

- 19) The doctor ordered promethazine HCl syrup 12.5 mg po tid. The supply is labeled 6.25 mg for every 5 mL. How many mL should the doctor prescribe?
- 20) Benadryl is prescribed 25 mg po q4h . The supply is labelled 12.5 mg per 5 mL. How many mL should the nurse administer?
- 21) Doctor prescribed 0.06 g of codeine po q4h prn and the supply is labeled 15 mg per 5 mL. How many mL should the doctor administer?
- 22) A doctor prescribes KCl elixir 20 mEq. The supply liquid is labeled 30 mEq per 15 mL. How much KCl elixir (in mL) should the nurse administer?
- 23) If a patient is unable to swallow Symmetrel capsules, the patient must receive the oral suspension labeled 50 milligrams per 5 milliliters. How many milliliters equal 200 milligrams?
- 24) The doctor prescribes chlorpheniramine maleate syr 1.5 mg po bid and the supply is 1mg/8mL. How many mL should the nurse administer?
- 25) If a patient is required to have 750,000 units of Mycostin po tid. The liquid is labeled 100,000 units per mL. How many mL should be administered?
- 26) A doctor administers Lanoxin 0.125 mg po and the liquid is supplied in a dropper bottle labeled 500 mcg/10 mL. How many mL should be administered?
- 27) A dosage of 200 mcg is ordered. The strength available is 0.3 mg in 1.5 mL. How many mL should be administered?
- 28) The dosage ordered is 0.4 mg. The strength available is 0.25 mg in 1.2 mL. How many mL should be administered?



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## Answers/Solutions

- |  |                                     |
|--|-------------------------------------|
| 1) 1 tablet  | 15) 1 tablet                        |
| 2) 4 tablets   | 16) (a) 6 tablets<br>(b) 18 tablets |
| 3) 1.5 tablets   |                                     |
| 4) 2 capsules  | 17) Yes                             |
| 5) 1.5 tablets   | 18) Yes                             |
| 6) 2 tablets   | 19) 10 mL                           |
| 7) 2 tablets   | 20) 10 mL                           |
| 8) 2.5 tablets   | 21) 20 mL                           |
| 9) (a) 2 tablets<br>(b) 0600hr, 1200hr, 1800hr, 2400hr | 22) 10 mL<br>23) 20 mL              |
| 10) 5 tablets per dose                                 | 24) 12 mL                           |
| 11) 10 tablet  | 25) 7.5 mL                          |
| 12) 2 capsules   | 26) 2.5 mL                          |
| 13) 0.5 tablets  | 27) 1 mL                            |
| 14) 2 capsules   | 28) 1.9 mL                          |



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