

Boston Reed College
Pharmacy Technician Training Program
Week 19 Practice Problems
Dosage Calculations

Calculate the following dosages using either the formula method ($\frac{D}{H} \times Q = X$) or the ratio-proportion method.

1. The physician orders *digioxin elixir 0.048 mg p.o. q.d.* for a one-month-old infant weighing 4 kg. The pediatric reference guide states the safe dosage of digioxin is 10 to 12 mcg/kg/day for a child under 2 years. Is the dosage ordered safe? _____
2. The physician orders *Versed 1 mg IM stat* preoperatively for a child weighing 14 kg. The recommended dosage of Versed is 0.05 to 0.1 mg/kg per dose preoperatively. Is the dosage ordered safe? _____
3. If the safe dosage ranged of fentanyl IV preoperatively is 1 to 2 mcg/kg/dose, how many milligrams of Fentanyl could a child weighing 40 kg receive per dose?
Minimum: _____ mg; Maximum: _____mg
4. If the Fentanyl is available as 0.05 mg/mL, how much would the nurse draw up to give the maximum dose calculated in question #3 _____ mL
5. The safe dosage of Tobramycin is 7.5 mg/kg/day IV given q.8h. Calculate the safe daily dosage for a child weighing 25 kg. _____ mg
6. How many milligrams of Tobramycin should the child in question #5 receive per dose?
____ mg
7. Order: *Codeine 20 mg p.o. q.4h p.r.n., pain* for a child who weighs 40 kg. The recommended dosage is 0.5 mg/kg/dose not to exceed 6 doses per day. Is this ordered dosage safe? _____

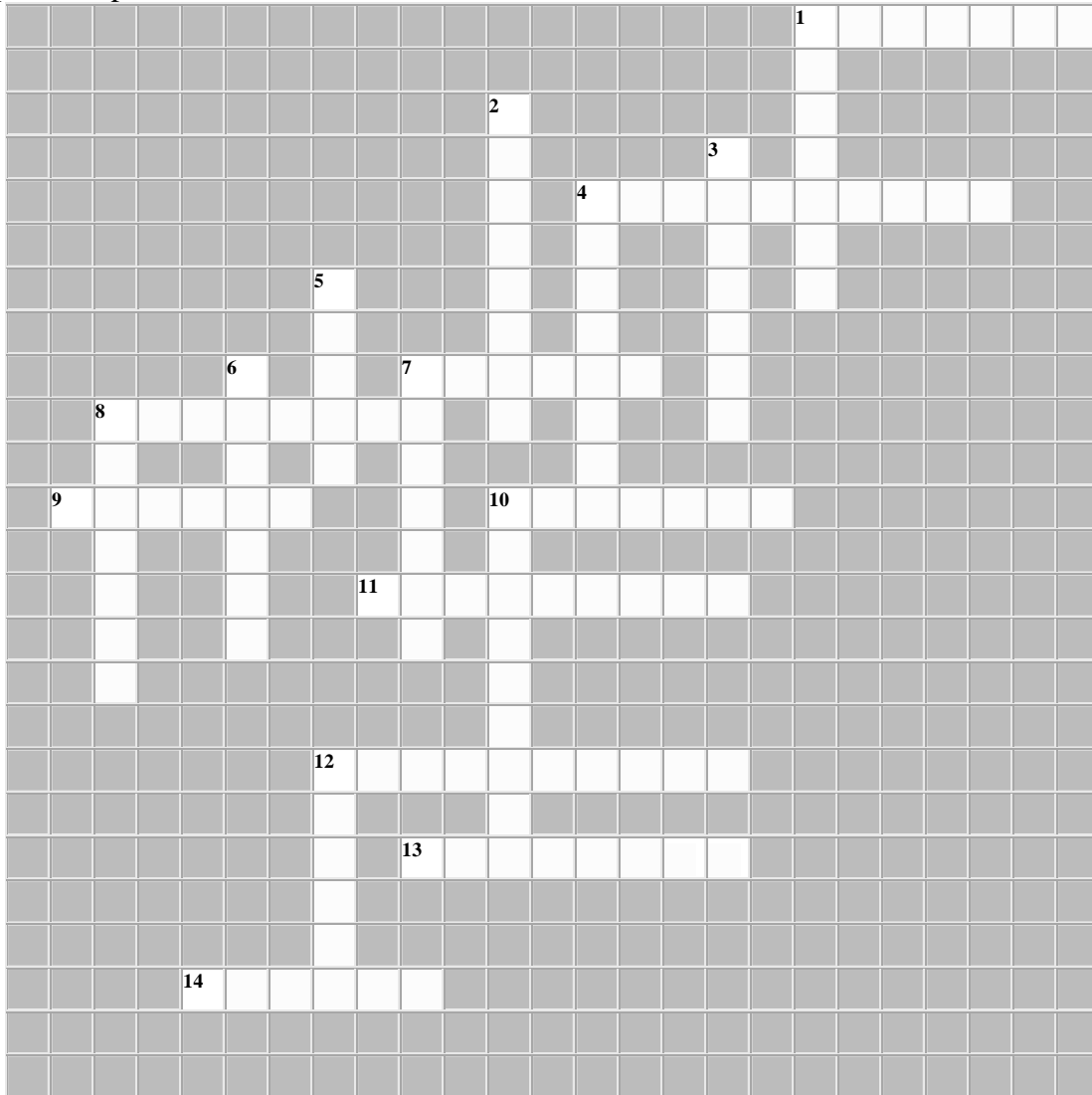
8. A patient's medication is available as "gr viss tablets." If he is told to take 195 mg, how many tablet(s) should he take? _____ tablet(s).
9. A patient who is being treated for chronic pain is given gr $\frac{3}{4}$ of morphine sulfate every 3 hours. How many milligrams will he receive in 24 hours? _____mg
10. Your patient uses nitroglycerin for chest pain. If 0.2 mg tablets are available and gr $\frac{1}{300}$ is ordered, how many tablet(s) should she take? _____ tablet(s)
11. The patient has an order for *Lactulose 15 g NG b.i.d. q.d.* Lactulose is available as 10 g/15 mL. Give _____ mL
12. Tylenol and codeine suspension is a combination liquid. It contains 120 mg acetaminophen and 12 mg codeine per 5 mL of suspension. If the doctor orders 9.5 mL pr dose, the child will receive _____ mg acetaminophen and _____mg codeine per dose.
13. Cedax (ceftibuten) is concentrated as 90 mg/5 mL and is supplied in a 60 mL bottle. If the doctor orders *Cedax 40 mg p.o. q.d.*, how many full days will the supply of Cedax in the 60 mL bottle last? ___days
14. Order: Codeine 20 mg p.o. q.4h p.r.n., pain for a child who weighs 40kg. The recommended dosage is 0.5 mg/kg/dose not to exceed 6 doses per da6. Is this ordered dosage safe? _____
15. The available supply of codeine liquid is 15 mg/mL. If the dosage ordered is safe, calculate one dose for the child in question #14. ___mL.
16. If the physician ordered *Sepra 7.5 ml IV q.12h* for the child, is the dose volume safe?

WK 19 BRAND & GENERIC DRUGS CROSSWORD PUZZLE (TABLE 4-21)

Name _____

Date _____

Complete the puzzle.



Down

- 1. Phentolamine
- 2. Hydrocortisone valerate
- 3. Furosemide
- 4. Albuterol
- 5. Diazepam
- 6. Caffeine
- 7. Cephradine
- 8. Methyltestosterone
- 10. Insulin injection
- 12. Diazepam

Across

- 1. Enalapril
- 4. Doxycycline
- 7. Mebendazole
- 8. Betamethasone Valerate
- 9. Sulfamethoxazole
- 10. Diphenidol
- 11. Interferon alfa-N1
- 12. Penicillin V potassium
- 13. Vancomycin
- 14. Albuterol sulfate

Boston Reed College®
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 Week #19 Lab

Third Party Billing Issues

- 1) Given the following situations: define the problem and explain how to resolve it. Don't forget to ask for help from the instructor.

SITUATION	IDENTIFY PROBLEM	RESOLUTION
Example: Refill too soon- last fill date was 15 days ago- and patient was given a 30 day supply. Pt. is requesting a refill too soon.	Ask patient if the directions have changed- if the Dr. increased the dose. Maybe the patient is going on a vacation or they lost the medication.	If directions have changed contact the Dr. If the patient is going on vacation call insurance and see if they offer a vacation override. If lost- too bad
Prescribed drug not on formulary for this health plan		
Prescribed drug requires a CODE-1 diagnosis		
Therapeutic duplication- same medication filled at mail-order pharmacy for a 90 day supply. DUR reject error- day supply exceeds maximum -rx is for 60 days supply		

SITUATION	IDENTIFY PROBLEM	RESOLUTION
Generic required for payment – pt. requested brand name drug only		
Therapeutic duplication- new rx being prescribed is very similar to a drug the patient just got filled last week		