

**Chapter 07: Calculations Used in Patient Assessments Ogden  
& Fluharty: Calculation of Drug Dosages, 17th Edition**

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**COMPLETION**

*Change to the designated equivalents.*

1. 76 mg = \_\_\_\_\_ mcg

ANS: 76,000

2. 1.42 mg = \_\_\_\_\_ mcg

ANS: 1420

3. 150,525 mcg = \_\_\_\_\_ g

ANS: 0.150525

4. 9415 mcg = \_\_\_\_\_ mg

ANS: 9.415

5. 445 mg = \_\_\_\_\_ g

ANS: 0.445

6. 1 mg = \_\_\_\_\_ g

ANS: 0.001

7. 18 mg = \_\_\_\_\_ mcg

ANS: 18,000

8. 15 mg = \_\_\_\_\_ g

ANS: 0.015

9. 900 mg = \_\_\_\_\_ g

ANS: 0.9

10. 1 mg = \_\_\_\_\_ mcg

ANS: 1000

11. 1 g = \_\_\_\_\_ mg

ANS: 1000

12. 1 g = \_\_\_\_\_ mcg

ANS: 1,000,000

13. 17.4 kg = \_\_\_\_\_ g

ANS: 17,400

14. 112.2 lb = \_\_\_\_\_ kg

ANS: 51

15. 12.6 cm = \_\_\_\_\_ in

ANS: 5

16. 6 cm = \_\_\_\_\_ in

ANS: 2.4

17. 750 mL = \_\_\_\_\_ L

ANS: 0.75

18. 2.5 L = \_\_\_\_\_ mL

ANS: 2500

*Change to approximate equivalents.*

19. 3 oz = \_\_\_\_\_ mL

ANS: 90

20. 2 1/2 cups = \_\_\_\_\_ fl oz

ANS: 20

21. 3/4 cup = \_\_\_\_\_ fl oz

ANS: 6

22. 1 cup = \_\_\_\_\_ oz

ANS: 8

23. 180 mL = \_\_\_\_\_ fl oz

ANS: 6

24. 20 kg = \_\_\_\_\_ lb

ANS: 44

25. 90 kg = \_\_\_\_\_ lb

ANS: 198

26. 3.5 kg = \_\_\_\_\_ lb

ANS: 7.7

27. 90 kg = \_\_\_\_\_ lb

ANS: 198

28. 123.2 lb = \_\_\_\_\_ kg

ANS: 56

29. 100 lb = \_\_\_\_\_ kg

ANS: 44.5

30. 220 lb = \_\_\_\_\_ kg

ANS: 100

31. 1 kg = \_\_\_\_\_ g

ANS: 1000

32. 4200 g = \_\_\_\_\_ kg

ANS: 4.2

33. 3800 g = \_\_\_\_\_ kg

ANS: 3.8

*Change to approximate equivalents. Round the answer to the nearest tenth.*

34. 180 lb = \_\_\_\_\_ kg

ANS: 81.8

35. 37.6° C = \_\_\_\_\_ ° F

ANS: 99.7

36. 37.8° C = \_\_\_\_\_ ° F

ANS: 100

37. 102.5° F = \_\_\_\_\_ ° C

ANS: 39.2

38. 97.8° F = \_\_\_\_\_ ° C

ANS: 36.5

39. *Calculate the intake.*

A patient consumes 120 mL of orange juice and 120 mL of milk for breakfast, 260 mL of coffee for lunch, and 90 mL of an ice pop and 120 mL of ice cream for dinner. The patient voided three times during the shift for 240 mL, 500 mL, and 400 mL. Calculate the intake for the 6 AM to 6 PM shift.

ANS: 710 mL

40. *Calculate the output.*

A patient consumes 120 mL of orange juice and 120 mL of milk for breakfast, 360 mL of coffee for lunch, and 90 mL of an ice pop and 120 mL of ice cream for dinner. The patient voided three times during the shift for 240 mL, 500 mL, and 400 mL. Calculate the output for the 6 AM to 6 PM shift.

ANS: 1160 mL

41. *Calculate the output.*

A patient consumes 4 oz of orange juice and 4 oz of milk for breakfast, 12 oz of coffee for lunch, and 3 oz mL of an ice pop and 4 oz mL of ice cream for dinner. The patient voided three times during the shift for 200 mL, 360 mL, and 600 mL. Calculate the intake for the 6 AM to 6 PM shift.

ANS: 710 mL

42. *Calculate the output.*

A patient consumes 4 oz of orange juice and 4 oz of milk for breakfast, 12 oz of coffee for lunch, and 3 oz mL of an ice pop and 4 oz mL of ice cream for dinner. The patient voided three times during the shift for 240 mL, 500 mL, and 400 mL. Calculate the output for the 6 AM to 6 PM shift.

ANS: 1160 mL

43. *Calculate the intake.*

A patient consumes 2 oz of an ice pop and 30 mL of ice chips during the shift. Intravenous fluids infused at 125 mL/h during the shift. The Foley catheter was emptied of 800 mL at 6 PM. 80 mL were emptied from a drain at 6 PM. Calculate the intake for the 6 AM to 6 PM shift.

ANS: 1590 mL

44. *Calculate the output.*

A patient consumes 2 oz of an ice pop and 30 mL of ice chips during the shift. Intravenous fluids infused at 125 mL/h during the shift. The Foley catheter was emptied of 800 mL at 6 PM. A drain was emptied of 80 mL at 6 PM. Calculate the output for the 6 AM to 6 PM shift.

ANS: 880 mL

## Chapter 11: Oral Dosages

### Ogden & Fluharty: Calculation of Drug Dosages, 11th Edition

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#### COMPLETION

1. The physician orders Methergine 0.3 mg po twice a day for postpartum bleeding. The medication is supplied in 0.2-mg tablets. How many tablets will the nurse administer?

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ANS: 1.5 tablets

2. The physician orders Synthroid 100 mcg po daily for a patient with hypothyroidism. The medication is supplied in 0.1-mg tablets. How many tablets will the nurse administer?

\_\_\_\_\_

ANS: 1 tablet

3. The physician orders Zestril 15 mg po daily for hypertension. The medication is supplied in 5-mg tablets. How many tablets will the nurse administer? \_\_\_\_\_

ANS: 3 tablets

4. The physician orders ibuprofen 600 mg po prn for cramping. The medication is supplied in 200-mg capsules. How many capsules will the nurse administer? \_\_\_\_\_

ANS: 3 capsules

5. The physician orders acyclovir 400 mg po three times a day for herpes. The medication is supplied in 800-mg tablets. How many tablets will the nurse administer? \_\_\_\_\_

ANS: 0.5 tablet

6. The physician orders Salagen 10 mg po twice a day for dry eyes. The medication is supplied in 5-mg tablets. How many tablets will the nurse administer? \_\_\_\_\_

ANS: 2 tablets

7. The physician orders acetaminophen 325 mg po q4 h for temperature higher than 101° F. The medication is supplied in gr v tablets. How many tablets will the nurse administer?

\_\_\_\_\_

ANS: 1 tablet

8. The physician orders Cipro 750 mg po twice a day for sinusitis. The medication is supplied in 500-mg tablets. How many tablets will the nurse administer? \_\_\_\_\_

ANS: 1.5 tablet

9. The physician orders Lanoxin elixir 80 mcg po daily for a patient with congestive heart failure. Available: 50 mcg/mL. How many milliliters will the nurse administer?

\_\_\_\_\_

ANS: 1.6 mL

10. The physician orders KCl 20 mEq po daily for hypokalemia. The medication is supplied in 40 mEq/15 mL. How many milliliters will the nurse administer? \_\_\_\_\_

ANS: 7.5 mL

11. The physician orders Benadryl elixir 37.5 mg po for hives. Available: 12.5mg/5 mL. How many milliliters will the nurse administer? \_\_\_\_\_

ANS: 15 mL

12. The physician orders Zantac elixir 150 mg po twice a day for heartburn. The medication is supplied in 15 mg/mL. How many milliliters will the nurse administer? \_\_\_\_\_

ANS: 10 mL

13. The physician orders Dilantin oral suspension 80 mg po three times a day for seizures. The medication is supplied in 125 mg/5 mL. How many milliliters will the nurse administer?

\_\_\_\_\_

ANS: 3.2 mL

14. The physician orders Prozac liquid 60 mg po daily for depression. Available: 20 mg/5mL. How many milliliters will the nurse administer? \_\_\_\_\_

ANS: 15 mL

15. The physician orders nitroglycerin tablets gr sublingual every 5 minutes up to three tablets for chest pain. The medication is supplied in 0.4-mg tablets. The patient took three tablets. How many milligrams did she receive? \_\_\_\_\_

ANS: 1.2 mg

16. A patient with high gastric residuals has Reglan 10 mg every 6 hours per gastric tube ordered. The Reglan syrup is supplied in a 10 mg per 10-mL concentration. How many milliliters would the nurse administer with each dose? \_\_\_\_\_

ANS: 10 mL

17. The physician orders magnesium oxide 200 mg oral three times a day for a patient with hypomagnesemia. Magnesium oxide is available in 400-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 0.5 tablet

18. The physician has ordered Digitek 0.125 mg oral every 48 hours for a patient with atrial fibrillation. The medication is supplied as Digitek 125 mcg per tablet. How many tablets of Digitek would the patient receive with each dose? \_\_\_\_\_

ANS: 1 tablet

19. The physician orders tramadol 100 mg oral three times a day. Tramadol is available in 50-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 2 tablets

20. The physician has ordered torsemide 40 mg oral every morning for a patient with heart failure. The medication is supplied as torsemide 20 mg per tablet. How many tablets of torsemide would the patient receive with each dose? \_\_\_\_\_

ANS: 2 tablets

21. The physician orders Coumadin 5 mg oral daily for a patient with a pulmonary embolus. Coumadin is available in 10 mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 0.5 tablets

22. A patient has orders for guaifenesin 200 mg every 6 hours per gastric tube. The guaifenesin syrup is supplied in a 100 mg per 5-mL concentration. How many milliliters would the nurse administer with each dose? \_\_\_\_\_

ANS: 10 mL

23. The physician has ordered spironolactone 75 mg oral daily for a patient with hypokalemia. The medication is supplied as spironolactone 25 mg per tablet. How many tablets of spironolactone would the patient receive with each dose? \_\_\_\_\_

ANS: 3 tablets

24. The physician orders glipizide 10 mg oral twice a day for a patient with diabetes. Glipizide is available in 5-mg tablets. How many tablets would the nurse administer with each dose?  
\_\_\_\_\_

ANS: 2 tablets

25. The physician has ordered lorazepam 1 mg oral every 4 to 6 hours for a patient with anxiety. The medication is supplied as lorazepam 0.5 mg per tablet. How many tablets of lorazepam would the patient receive with each dose? \_\_\_\_\_

ANS: 2 tablets

26. The physician orders potassium chloride crystals CR 40 mEq twice a day orally for a patient with hypokalemia. Potassium chloride crystals CR are available in 20-mEq tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 2 tablets

27. The physician has ordered carvedilol 12.5 mg oral twice a day for a patient with hypertension. The medication is supplied as carvedilol 6.25 mg per tablet. How many tablets of carvedilol would the patient receive with each dose? \_\_\_\_\_

ANS: 2 tablets

28. The physician orders ascorbic acid 600 mg oral daily for a patient with anemia. Ascorbic acid is available in 300-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 2 tablets

29. The physician orders metoprolol 25 mg oral twice a day for a patient with hypertension. Metoprolol is available in 50-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 0.5 tablet

30. A patient with dysphagia has omeprazole 40 mg once daily per gastric tube ordered. The omeprazole elixir is supplied in a 2 mg per milliliter concentration. How many milliliters would the nurse administer with each dose? \_\_\_\_\_

ANS: 20 mL

31. The physician orders diltiazem 60 mg oral three times a day for a patient with supraventricular tachycardia. Diltiazem is available in 30-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 2 tablets

32. The patient has metoclopramide 5 mg oral every 6 hours ordered for nausea. The medication is supplied as metoclopramide 10 mg per tablet. How many tablets of metoclopramide would the patient receive with each dose? \_\_\_\_\_

ANS: 0.5 tablet

33. Docusate sodium 100 mg twice a day per gastric tube is ordered for a constipated patient. The docusate sodium syrup is supplied in a 10 mg per milliliter concentration. How many milliliters would the nurse administer with each dose? \_\_\_\_\_

ANS: 10 mL

34. Vitamin D 5000 international units oral every day is ordered. The vitamin D is supplied in 1000-international-unit capsules. How many capsules would the nurse administer with each dose? \_\_\_\_\_

ANS: 5 capsules

35. The physician orders gabapentin 900 mg oral at bedtime for a patient with neuropathy. Gabapentin is available in 300-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 3 tablets

36. The physician orders simvastatin 80 mg oral at bedtime for a patient. Simvastatin is available in 40-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 2 tablets

37. The physician orders fluconazole 200 mg daily per gastric tube for a patient with an infection. The medication is supplied as fluconazole 200 mg per tablet. How many tablets of fluconazole would the patient receive with each dose? \_\_\_\_\_

ANS: 1 tablet

38. Pro-Stat 60 mg twice a day per gastric tube is ordered. The Pro-Stat syrup is supplied in a 15 g per 30-mL concentration. How many milliliters would the nurse administer with each dose? \_\_\_\_\_

ANS: 60 mL or 4 packets divided over the day

39. The physician orders magnesium oxide 400 mg oral three times a day for a patient with hypomagnesemia. Magnesium oxide is available in 200-mg tablets. How many tablets would the nurse administer with each dose? \_\_\_\_\_

ANS: 2 tablets