

Notes



PRACTICE PROBLEMS

Calculate the correct number of tablets or capsules to be administered in the following problems using the labels or information provided. Use any of the methods presented to calculate the dosage. Remember to label your answers.

1. Order: Synthroid 0.025 mg p.o. every day.

Available: Scored tablets.

250mcg

5 tabs

NDC 0048-1040-03
NSN 6505-01-156-1807
Code 3P1043

SYNTHROID®
(Levothyroxine Sodium
Tablets, USP)

50 mcg (0.05 mg)
100 TABLETS

Caution: Federal (USA) law
prohibits dispensing without
prescription.

See full prescribing
information for dosage
and administration.
Dispense in a tight,
light-resistant container
as described in USP.
Store at controlled room
temperature, 15°-30°C
(59°-86°F).

Knoll Pharmaceutical
Company
Mount Olive, NJ 07828
USA

7878-03

SAMPLE

0048-1040-03

BASF Pharma

KITCO

2. Order: Capoten 6.25 mg p.o. b.i.d.

Available: Tablets scored in fourths.

1/4 tab

1000 tablets

NDC 0003-0452-75
6505-01-190-0669

25 mg
CAPOTEN®
(captopril
tablets, USP)

Rx only

Bristol-Myers Squibb Company

Bulk Container—Not For Household
Dispensing • Dosage: See insert.
Each tablet contains 25 mg captopril.
Do not store above 86° F (30° C).
Keep tightly closed (protect from moisture).
Dispense in tight container.
US Patent: 5,238,924
Bristol-Myers Squibb Company
Princeton, NJ 08543 USA
34-008128-01
00428C / 045275

3-0003-0452-75-7

3. Order: Ethambutol 1.2 g p.o. daily.

Available:

3 tabs

NDC 0005-5084-62

Control No.

Do not use after

20444-92 07

Control No.

Do not use after

NDC 0005-5084-62

MYAMBUTOL®
ETHAMBUTOL HYDROCHLORIDE
TABLETS 400 MG
(Film Coated)

AVERAGE ADULT DAILY DOSAGE:
15 mg/kg or 25 mg/kg once every
24 hours. See enclosed circular.

CAUTION: Federal law prohibits
dispensing without prescription.

Dispense in tight containers
as defined in the USP.

100 TABLETS

6505-00-812-2579
NDC 0005-5084-62

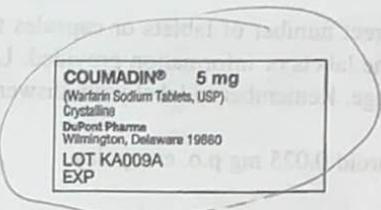
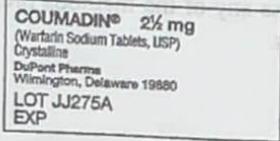
0005-5084-62 9

STORAGE: CONTROLLED ROOM
TEMPERATURE (15°-30°C / 59°-86°F).
US Pat. 5,139,915; 5,139,916; 5,139,917.
American Cyanamid Company
Pearl River, NY 10958

Notes

4. Order: Coumadin 7.5 mg p.o. at bedtime.

Available: Scored tablets.

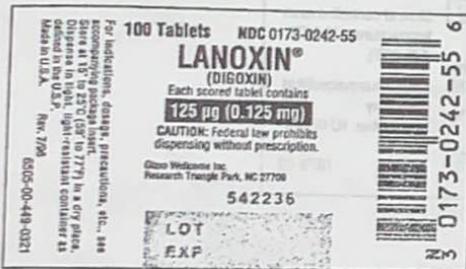


What would be the appropriate strength tablet to use?

5mg

5. Order: Lanoxin 0.125 mg p.o. daily.

Available: Scored tablets.



a. What is the appropriate strength tablet to use?

125mcg

b. What will you prepare to administer?

1 tab

6. Order: Ampicillin 1 g p.o. q6h.

Available: Ampicillin capsules labeled 500 mg and 250 mg.

a. Which strength capsule is appropriate to use?

500mg

b. How many capsules are needed for one dosage?

2 caps

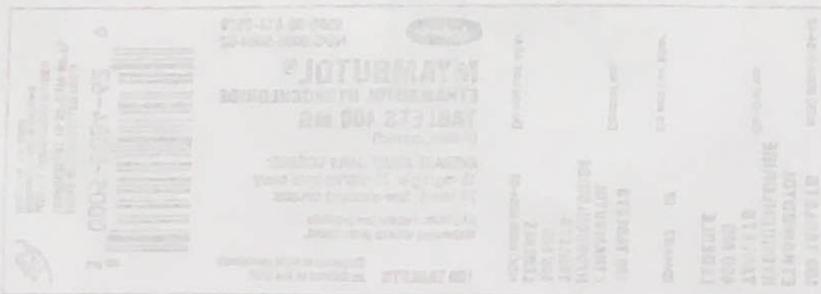
c. What is the total number of capsules needed if the medication is ordered for 7 days?

14 caps

7. Order: Reglan 10 mg p.o. t.i.d. 1/2 hr a.c.

Available: Reglan tablets labeled 5 mg.

2 tabs



Notes

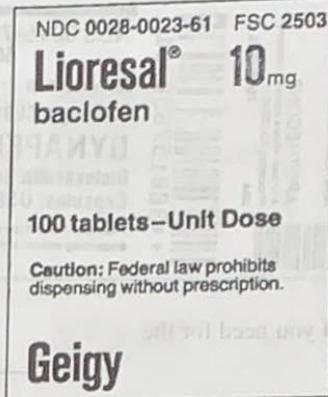
8. Order: Baclofen 15 mg p.o. t.i.d. × 3 days.

Available: Scored tablets.

$$\frac{10\text{mg}}{1\text{ tab}} = \frac{15\text{mg}}{x}$$

$$\frac{10x}{15} = \frac{15}{15}$$

$$x = 1.5\text{ tabs}$$



a. How many tablets are needed for one dosage?

1.5 tabs

b. What is the total number of milligrams the client will receive in 3 days?

135 mg

$$5 \times 3 = 45\text{mg per day}$$

$$45\text{mg} \times 3\text{ days} = 135\text{mg}$$

9. Order: Synthroid 0.075 mg p.o. every day.

Available: Synthroid scored tablets labeled 50 mcg.

1.5 tabs

$$\frac{50\text{mcg}}{1\text{ tab}} = \frac{0.075\text{mg}}{x}$$

$$x = 1.5\text{ tabs}$$

10. Order: Calcium carbonate 1.3 g p.o. daily.

Available: Calcium carbonate tablets labeled 650 mg.

2 tabs

$$\frac{650\text{mg}}{1\text{ tab}} = \frac{1.3\text{g}}{x}$$

11. Order: Dilantin 90 mg p.o. t.i.d.

Available: Dilantin capsules labeled 30 mg.

3 tabs

$$\frac{30\text{mg}}{1\text{ tab}} = \frac{90\text{mg}}{x}$$

$$x = 3\text{ tabs}$$

12. Order: Tegretol 200 mg p.o. t.i.d.

Available:

$$\frac{30\text{mg}}{1\text{ tab}} = \frac{90\text{mg}}{x}$$

$$x = 3\text{ tabs}$$

$$\frac{50\text{mg}}{1\text{ tab}} = \frac{1300\text{mg}}{x}$$

$$x = 2\text{ tabs}$$



$$\frac{100\text{mg}}{1\text{ tab}} = \frac{200\text{mg}}{x}$$

$$x = 2\text{ tabs}$$

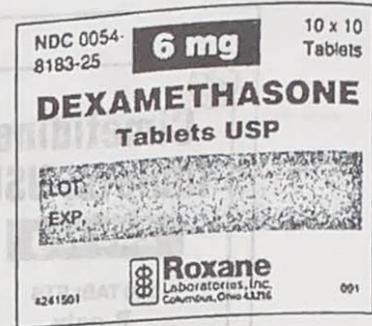
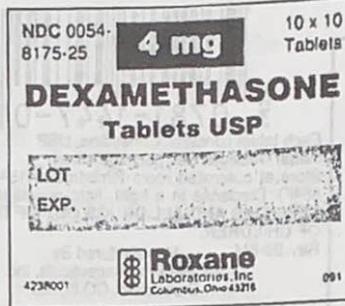
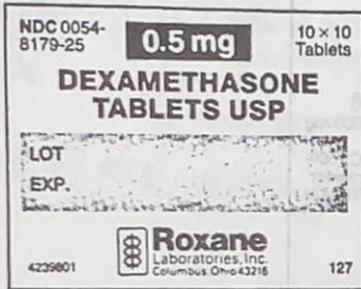
How many tablets will you administer for each dosage?

2 tabs

Notes

23. Order: Dexamethasone 6 mg p.o. daily.

Available: Scored tablets.

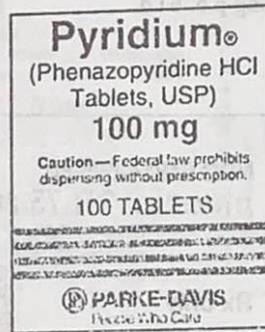


a. How many tablets of which strength will you give?

1 tab of 6mg

24. Order: Pyridium 0.2 g p.o. q8h.

Available:



100mg 200mg
1 tab x

x = 2 tabs

25. Order: Lasix 60 mg p.o. stat.

Available: Scored tablets.



1 tab x
40mg 60mg

x = 1 1/2 tabs

1 1/2 tab

26. Order: Glyburide 2.5 mg p.o. daily.

Available: Scored Glyburide tablets labeled 5 mg.

5mg 2.5mg
1 tab x

x = 1/2 tab

How many tablets will you administer for each dosage?

1/2 tab

27. Order: Cimetidine (Tagamet) 400 mg p.o. b.i.d.

Available:



Cimetidine Tablets, USP
200 mg
100 TABLETS
Rx only

Geneva pharmaceuticals, inc.

N 3 0781-1447-01 8
Each tablet contains: Cimetidine, USP 200 mg
Usual Dosage: See package insert.
Store at controlled room temperature 15°-30°C (59°-86°F). Dispense in a tight, light-resistant container. KEEP THIS AND ALL DRUGS OUT OF THE REACH OF CHILDREN.
Rev. 99-6M Manufactured By Geneva Pharmaceuticals, Inc. Broomfield, CO 80020

Notes

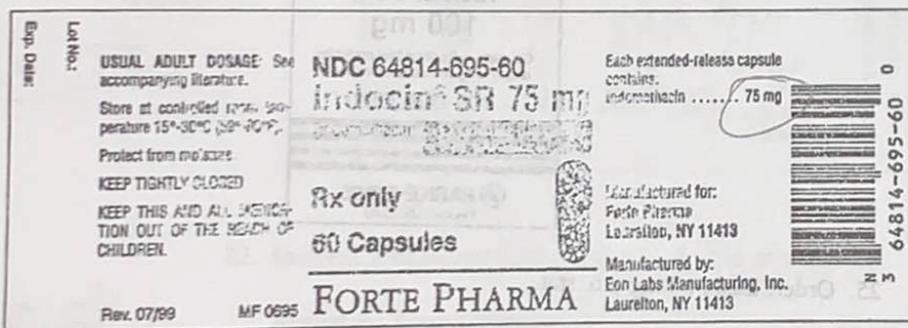
$$\frac{200\text{mg}}{1 \text{ tab}} \times \frac{400\text{mg}}{X} = 2 \text{ tabs}$$

How many tablets will you administer for each dosage?

2 tabs

28. Order: Indocin SR 150 mg p.o. b.i.d.

Available:



USUAL ADULT DOSAGE: See accompanying literature.
Store at controlled room temperature 15°-30°C (59°-86°F). Protect from moisture.
KEEP TIGHTLY CLOSED.
KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.
Rev. 07/99 MF 0695

NDC 64814-695-60
Indocin SR 75 mg
Rx only
60 Capsules

Each extended-release capsule contains indomethacin 75 mg

Manufactured for: Forte Pharma, Laurelton, NY 11419
Manufactured by: Eon Labs Manufacturing, Inc., Laurelton, NY 11413

64814-695-60

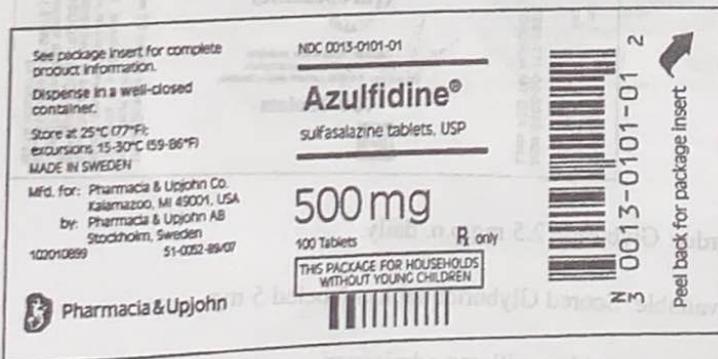
$$\frac{75\text{mg}}{1 \text{ tab}} \times \frac{150\text{mg}}{X} = 2 \text{ tabs}$$

How many capsules will you administer for each dosage?

2 tabs

29. Order: Sulfasalazine 1 g p.o. q6h.

Available:



See package insert for complete product information.
Dispense in a well-closed container.
Store at 25°C (77°F); excursions 15°-30°C (59°-86°F).
MADE IN SWEDEN

Mfd. for: Pharmacia & Upjohn Co., Kalamazoo, MI 49001, USA
by: Pharmacia & Upjohn AB, Stockholm, Sweden
10201089 51-0252-89/07

Pharmacia & Upjohn

NDC 0013-0101-01
Azulfidine®
sulfasalazine tablets, USP
500 mg
100 Tablets Rx only

THIS PACKAGE FOR HOUSEHOLDS WITHOUT YOUNG CHILDREN

0013-0101-01 2
Peel back for package insert

$$\frac{500\text{mg}}{1 \text{ tab}} \times \frac{1000\text{mg}}{X} = 2 \text{ tabs}$$

How many tablets will you administer for each dosage?

2 tabs

Notes

30. Order: Capoten 12.5 mg p.o. b.i.d.

$$\frac{25\text{mg}}{1\text{ tab}} \times \frac{12.5\text{mg}}{X}$$

Available: Scored Capoten tablets (quarters) labeled 25 mg.

a. How many tablets will you administer for each dosage?

1/2 tab

31. Order: Synthroid 100 mcg p.o. daily.

Available: Synthroid tablets labeled 75 mcg and 25 mcg.

How many tablets of which strength will you use to administer the dosage?

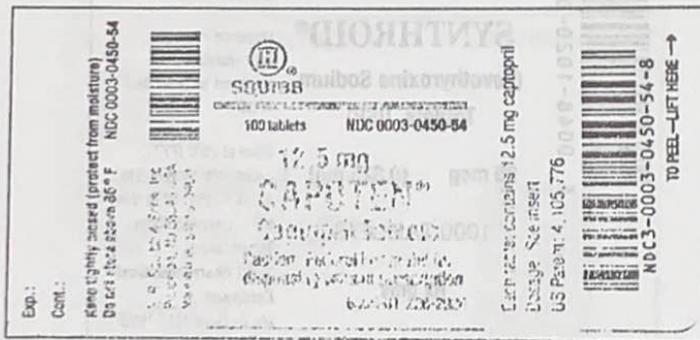
4 tabs

32. Order: Capoten 25 mg p.o. q8h.

Available:

2 tabs

$$\frac{12.5\text{mg}}{1\text{ tab}} \times \frac{25\text{mg}}{X}$$



33. Order: Clonazepam 0.25 mg p.o. b.i.d. and at bedtime.

Available: Scored tablets.

1/2 tab

$$\frac{0.5\text{mg}}{1\text{ tab}} \times \frac{0.25\text{mg}}{X}$$



34. Order: Augmentin 0.25 g p.o. q8h.

Available:

1 tabNotes


250mg
NDC 0029-6075-27

AUGMENTIN®
AMOXICILLIN/CLAVULANATE
POTASSIUM TABLETS
AMOXICILLIN, 250 MG,
as the trihydrate
CLAVULANIC ACID, 125 MG,
as clavulanate potassium
30 Tablets

SB SmithKline Beecham

Store at room temperature. Dispense in a tight, light-resistant container to help protect from moisture. Each tablet contains 250 mg amoxicillin as the trihydrate and 125 mg clavulanic acid as clavulanate potassium. See accompanying prescribing information.
SmithKline Beecham Pharmaceuticals
Philadelphia, PA 19101

LOT 9406474-D EXP.

3 0029-6075-27 1

250mg

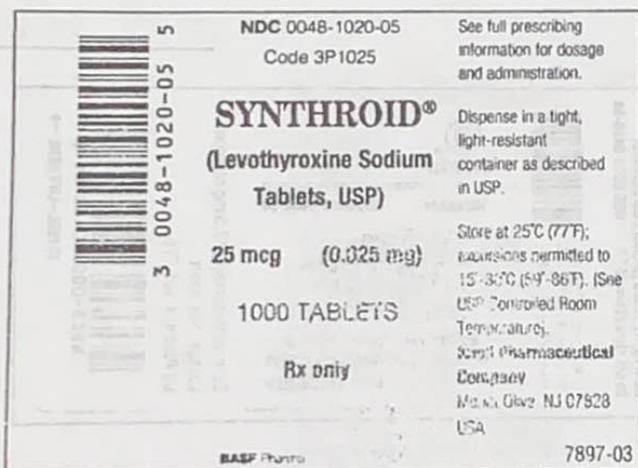
1 tab

250mg

x

35. Order: Synthroid 25 mcg p.o. every day.

Available:

1 tab


NDC 0048-1020-05
Code 3P1025

SYNTHROID®
(Levothyroxine Sodium
Tablets, USP)

25 mcg (0.025 mg)

1000 TABLETS

Rx only

See full prescribing information for dosage and administration.

Dispense in a tight, light-resistant container as described in USP.

Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F). (See USP Controlled Room Temperature.)
SmithKline Beecham
Company
Morris Plains, NJ 07958
USA

7897-03

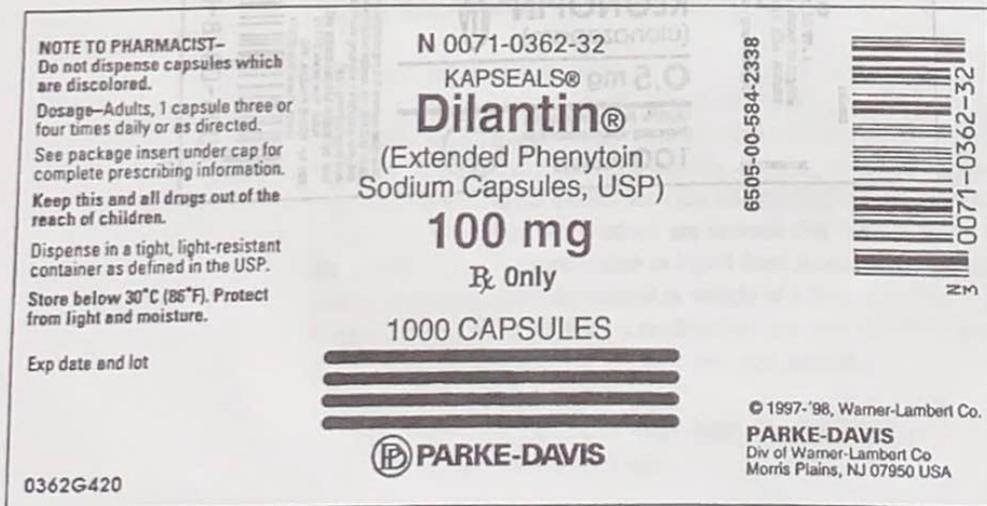
36. Order: Aspirin 650 mg p.o. q4h p.r.n.

Available: Aspirin tablets 325 mg.

2 tabs

37. Order: Dilantin extended capsules 0.2 g p.o. t.i.d.

Available:

2 tabs


NOTE TO PHARMACIST—
Do not dispense capsules which are discolored.
Dosage—Adults, 1 capsule three or four times daily or as directed.
See package insert under cap for complete prescribing information.
Keep this and all drugs out of the reach of children.
Dispense in a tight, light-resistant container as defined in the USP.
Store below 30°C (86°F). Protect from light and moisture.
Exp date and lot

N 0071-0362-32
KAPSEALS®
Dilantin®
(Extended Phenytoin
Sodium Capsules, USP)
100 mg
Rx Only
1000 CAPSULES

6505-00-584-2338

0071-0362-32

© 1997-'98, Warner-Lambert Co.
PARKE-DAVIS
Div of Warner-Lambert Co
Morris Plains, NJ 07950 USA

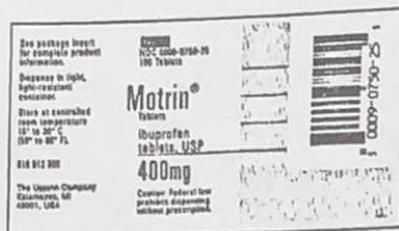
0362G420

Notes

38. Order: Motrin 800 mg p.o. q6h p.r.n.

2 tabs

Available:



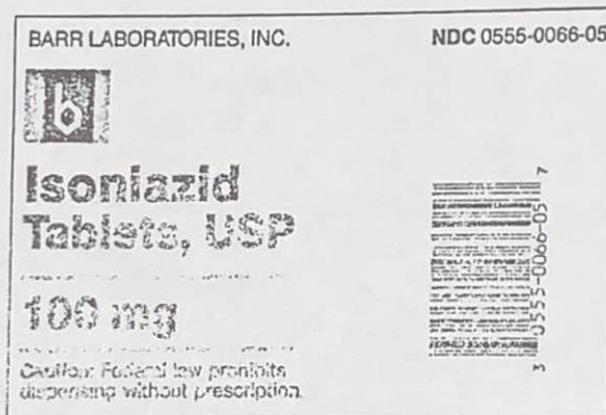
39. Order: Procardia XL 60 mg p.o. daily.

Available: Procardia XL labeled 30 mg per tablet.

2 tabs

40. Order: Isoniazid 0.3 g p.o. daily.

Available:

3 tabs

41. Order: Inderal LA 160 mg p.o. every day.

Available: Inderal LA capsules labeled 80 mg.

2 tabs

Answers on pp. 609-613

CALCULATING ORAL LIQUIDS

Medications are also available in liquid form for oral administration. Liquid medications are desirable to use for clients who have dysphagia (difficulty swallowing) or who are receiving medications through various types of tubes such as nasogastric (tube in nose to stomach), gastrostomy (tube placed directly into stomach), or jejunostomy (tube directly into intestines). Liquid medications are also desired for use in young children, infants, and elderly clients. When medications are ordered that cannot be crushed for administration, the availability of the medication in liquid form should be investigated. Medications in liquid form contain a specific amount or weight of a drug in a given amount of solution, which is indicated on the label. Liquid medications are prepared in different forms, as follows:

1. **Elixir**—Alcohol solution that is sweet and aromatic.
Example: Phenobarbital elixir.
2. **Suspension**—One or more drugs finely divided into a liquid such as water.
Example: Penicillin suspension.