

**CALHOUN COMMUNITY COLLEGE
NURSING DEPARTMENT**

Practice Problems

ACTIVITY #1

REMEMBER:

DESIRED X QUANTITY = DOSE TO BE ADMINISTERED
HAVE

EXAMPLE:

1. The M.D. ordered 0.125 mg Lanoxin po daily. On hand you have 0.25 mg/tab. You should Give _____ tab.

$$\frac{\text{DESIRED } (0.125 \text{ mg})}{\text{HAVE } (0.25 \text{ mg})} \times \text{QUANTITY} = \frac{0.125 \text{ mg}}{0.25 \text{ mg}} \times 1 \text{ tablet} = 0.5 \text{ tablet}$$

2. The doctor ordered 0.45 mg Thyroxine po daily. The pharmacy sends up one tablet labeled 0.15 mg and 1 tablet labeled 0.3 mg. Is this the correct amount? YES or NO
3. The M.D. ordered 75 mg Demerol to be given by injection three times every day. What is the total **daily** amount of Demerol received? _____
4. The M.D. ordered 0.5 mg Robitussin cough syrup to be given every four hours po for cough as needed. The nurse has on hand 0.25 mg/5mL. How much would you give in **one** dose? _____ mL or _____ tsp
5. The doctor ordered 0.05 mg of medication po daily. On hand you have 0.15 mg/mL. You will give _____ mL.
6. The M.D. ordered: grV of medication po once daily. The nurse has available gr xv/3mL. You would give _____ mL.

7. The M.D. ordered: 75 mg. of medication po daily. The nurse has on hand 200 mg/mL. You would give _____ mL.
8. The doctor ordered: gr 1/4 of medication po daily. On hand you have 1/2 grain/mL. You will give _____ mL.
9. The M.D. ordered: 30 mEq of Potassium mixed in every bag of intravenous fluid. The dosage available is 20 mEq/2 mL. How many mL should be added to the bag of IV fluid? _____
10. The dosage strength is 125,000 units/1.5 mL. The order is administer 175,000 units sc once daily. How many mL should be given? _____
11. The doctor ordered: Lanoxin 0.125 mg to be given every day intravenously. The vial is labeled Lanoxin 0.5 mg/2 mL. How many mL should be given? _____
12. The solution available is 5 mg/1.5 mL. Prepare a solution with a dosage of 8 mg. How many mL should be prepared? _____
13. The doctor ordered: Myleran gr 1/6 every day po. The dosage available is gr 1/10 per tab. How many tablets should be given daily? _____
14. The doctor orders 8 units of Hydrocortisone IM daily. On hand you have 40 units/mL. You will give _____ mL.
15. The doctor ordered: 0.05 mg of elixir q po once daily. On hand you have 0.02 mg/2 mL. You will give _____ mL or _____ tsp.
16. The doctor ordered 3.75 mg of medication po daily. On hand you have 7.5 mg/tab. You will give _____ tab.

Activity #2

REMEMBER:

- Drug strength = Gram (g) and Milligram (mg).
- To change g to mg, move decimal 3 places to the right
- To change mg to g, move decimal 3 places to the left
- To change mg to ug (mcg), move decimal 3 places to the right.

1. The doctor ordered Keflex 500 mg po daily. On hand you have Keflex 0.250 g per capsule. How many capsules will you give? _____
2. The doctor ordered Gantrisin 750 mg. PO daily. On hand you have Gantrisin 0.5 g per tab. How many tablets will you give? _____
3. The doctor ordered Valium 15 mg. On hand you have Valium 50 mg per mL. How many mL will you give? _____
4. The doctor ordered Demerol 35 mg IM. On hand you have Demerol 50mg per mL. How many mL will you give? _____
5. The doctor ordered Morphine 3 mg. On hand you have Morphine 0.002 g per mL. How many mL will you give? _____
6. The doctor ordered Ampicillin Liquid 250 mg PO. On hand you have Ampicillin Liquid 125 mg per 5 mL. Give _____ mL or _____ tsp
7. The doctor ordered Digoxin 0.375 mg PO. On hand you have Digoxin 0.25 mg per tablet. How many tablets will you give? _____
8. The doctor ordered 20 mg of Valium. On hand you have Valium 60 mg per mL. How many mL will you give? _____
9. The doctor ordered Kantrex 150 mg. On hand you have Kantrex 0.5 g per 2 mL. How many mL's will you give? _____

10. The doctor ordered 0.125 mg Lanoxin. On hand you have 500 micrograms/2 mL. How many mL will you give? _____
11. The doctor ordered Ampicillin Liquid 0.3g. On hand you have Ampicillin Liquid 250 mg. per 5 mL. You will give _____ mL.
12. The doctor ordered 0.00068 g of Drug A. On hand you have 0.4 mg per mL. You will give _____ mL.
13. The doctor ordered 0.625 mg of Drug A. On hand you have 0.3 mg per mL. You will give _____ mL.
14. The doctor ordered 0.22 g of Drug A. On hand you have 0.12 g per mL. You will give _____ mL.
15. The doctor ordered 250 mg of Keflex. On hand you have Keflex 0.125 g per tab. How many tablets will you give? _____
16. The doctor ordered Valium 15 mg. On hand you have Valium 0.005 g per tablet. You will give how many tablets? _____
17. You are to give Digoxin 0.125 mg. using Digoxin labeled 0.25 mg per tablet. How many tablets will you administer? _____
18. The doctor ordered Ampicillin Liquid 500 mg. On hand you have Ampicillin Liquid 250 mg. per 5 mL. How many mL will you give? _____
19. The doctor ordered 0.475 mg. of Drug A. On hand you have 0.125 mg per mL. How many mL will you give? _____
20. You are to administer 500 mg Tetracycline four times a day. The Tetracycline bottle is labeled 250 mg per tablet. How many tablets do you administer?
Per dose _____
Per day _____

Activity #1 Answers:

1. 0.5 tab;
2. YES
3. 225 mg
4. 10 mL; 2 tsp;
5. 0.33 mL;
6. 1mL;
7. 0.38 mL;
8. 0.5 mL;
9. 3 mL;
10. 2.1 mL;
11. 0.5 mL;
12. 2.4 mL;
13. 1.7 mL;
14. 0.2 mL;
15. 5 mL or 1 tsp;
16. 0.5 tab.

Activity #2 Answers:

1. 2 caps;
2. 1.5 tabs;
3. 0.3 mL;
4. 0.7 mL;
5. 1.5 mL;
6. 10mL; 2 tsp;
7. 1.5 tabs;
8. 0.33 mL;
9. 0.6 mL;
10. 0.5 mL;
11. 6 mL;
12. 1.7 mL;
13. 2.1 mL;
14. 1.8 mL;
15. 2 tabs;
16. 3 tabs;
17. 0.5 tab
18. 10 mL;
19. 3.8 mL;
20. 2 tabs/dose and 8 tabs/day.