Marianna Craighead   Menke   pg.121

1. $\dfrac{20\,mEq \times 15mL}{30\,mEq} = 10mL$

2. $\dfrac{80mg \times 5mL}{125mg} = 3.2mL$

3. $\dfrac{20mg \times 1\,tab}{10mg} = 2\,tabs$

4. $\dfrac{500mg \times 1\,cap}{250mg} = 2\,capsules$

5. $\dfrac{0.5mg \times 1\,tab}{0.25mg} = 2\,tabs$

6. $\dfrac{40mg \times 5mL}{5mg} = 40mL$

7. $\dfrac{75mg \times 1\,tab}{50mg} = 1.5\,tabs$

8. $\dfrac{40\,mg \times 1\,tab}{80mg} = 0.5\,tab$

9. $\dfrac{0.125mg \times 10mL}{500mcg} = 2.5mL$

10. $\dfrac{75mg \times 10mL}{50mg} = 15mL$

11. $\dfrac{5mg \times 1\,tab}{2mg} = 2.5\,tabs$

12. $\dfrac{15mcg \times 1\,tab}{300mcg} = 0.5\,tab$

13. $\dfrac{375mg \times 1\,tab}{250mg} = 1.5\,tabs$

14. $\dfrac{600mg \times 1\,tab}{300mg} = 2\,tabs$

15. $\dfrac{1.5mg \times 8mL}{1mg} = 12mL$

16. $\dfrac{25mg \times 5mL}{12.5mg} = 10mL$

17. $\dfrac{60mg \times 0.6mL}{40mg} = 0.9mL$

18. $\dfrac{500mg \times 5mL}{250mg} = 10mL$

19. $\dfrac{15mg \times 5mL}{50mg} = 1.5mL$

20. $\dfrac{50mg \times 5mL}{25mg} = 10mL$

PROFICIENCY TEST 3   Calculations of Liquid Injections (*continued*)

18. Order: digoxin (Lanoxin) 0.125 mg IV 10 AM
    Supply: ampule labeled 0.25 mg/2 mL

19. Order: nalbuphine HCl (Nubain) 12 mg IM × 1 dose
    Supply: vial 10 mg/mL

20. Order: add 10 mEq KCl to IV
    Supply: vial 40 mEq/20 mL (use 10 mL syringe)

PROFICIENCY TEST 4   Mental Drill in Liquids-for-Injection Problems

Name:_____

As you develop proficiency in solving problems, you will be able to calculate many answers without writ-
ten work. This drill combines your knowledge of equivalents and dosages. Solve these problems mentally
and write only the amount to give. If necessary, round to the nearest tenths. See Appendix A for answers.

Order	Supply	Give
1. 0.5 g IM	250 mg/mL	2mL
2. 10 mEq IV	40 mEq/20 mL	5 mL
3. 0.5 mg IM	0.25 mg/mL	2mL
4. 100 mg IM	0.2 g/2 mL	4mL
5. 50 mg IM	100 mg/1 mL	0.5 mL
6. 0.25 mg IM	0.5 mg/2 mL	1mL
7. 0.3 mg subcutaneous	0.4 mg/mL	0.75mL
8. 1 mg subcutaneous	1:1000 solution	1mL
9. 1 g IV	5% solution	20mL
10. 0.1 g IM	200 mg/5 mL	2.5 mL
11. 400,000 units IM	500,000 units/mL	0.8mL
12. 0.5 mg IM	0.5 mg/2 mL	2mL
13. 1 g IV	50% solution	2mL
14. 75 mg IM	100 mg/2 mL	1.5mL
15. 15 mg IM	1:100 solution	~~0.4mL~~ 1.5mL
16. 35 mg IM	100 mg/mL	0.4mL
17. 0.6 mg subcutaneous	0.4 mg per mL	≠ 1.5mL
18. 0.15 g IM	0.2 g/2 mL	≠ 5ml