

### Proficiency Test 3

$$1. 20 \text{ mEq} \left( \frac{15 \text{ mL}}{30 \text{ mEq}} \right) = 10 \text{ mL}$$

$$2. 80 \text{ mg} \left( \frac{5 \text{ mL}}{125 \text{ mg}} \right) = 3.2 \text{ mL}$$

$$3. .02 \text{ g} \left( \frac{1000 \text{ mg}}{1 \text{ g}} \right) \left( \frac{1 \text{ tab}}{10 \text{ mg}} \right) = 2 \text{ tablets}$$

$$4. 0.5 \text{ g} \left( \frac{1000 \text{ mg}}{1 \text{ g}} \right) \left( \frac{1 \text{ tablet}}{.25 \text{ mg}} \right) = 2 \text{ capsules}$$

$$5. 0.5 \text{ mg} \left( \frac{1 \text{ tablet}}{.25 \text{ mg}} \right) = 2 \text{ tabs}$$

$$6. 20 \text{ mg} \left( \frac{5 \text{ mL}}{5 \text{ mg}} \right) = 20 \text{ mL}$$

$$7. 75 \text{ mg} \left( \frac{1 \text{ tab}}{50 \text{ mg}} \right) = 1.5 \text{ tablets}$$

$$8. 40 \text{ mg} \left( \frac{1 \text{ tab}}{80 \text{ mg}} \right) = 0.5 \text{ tab}$$

$$9. .25 \left( \frac{1000 \text{ mg}}{1 \text{ mg}} \right) \left( \frac{10 \text{ mL}}{500 \text{ mcg}} \right) = 5 \text{ mL}$$

$$10. 75 \text{ mg} \left( \frac{10 \text{ mL}}{50 \text{ mg}} \right) = 15 \text{ mL}$$

$$11. 5 \text{ mg} \left( \frac{1 \text{ tablet}}{2 \text{ mg}} \right) = 2.5 \text{ tablets}$$

Test 4

$$1. 0.5g \left( \frac{1000mg}{1g} \right) \left( \frac{1mL}{200} \right) = 2mL$$

$$2. 10mEq \left( \frac{20mL}{40mEq} \right) = 5mL$$

3. 2 mL

$$4. 100mg \left( \frac{1g}{1000mg} \right) \left( \frac{2mL}{0.2g} \right) = 10mL$$

5. 0.5 mL

6. 1 mL

7. 0.8 mL

8. 1 mL

9. 10 mL

$$10. 0.1g \left( \frac{1000mg}{1g} \right) \left( \frac{5mL}{200mg} \right) = 2.5mL$$

11. 0.8 mL

12. 2 mL

13. 2%

$$14. 75mg \left( \frac{2mL}{100mg} \right) = 1.5mL$$

15. 1.5% solution

16. 0.5 mL

17. 0.5 mL

$$18. .15g \left( \frac{2mL}{0.3g} \right) = 1mL$$

$$12. .15 \text{ mg} \left( \frac{1000 \text{ mcg}}{1 \text{ mg}} \right) \left( \frac{1 \text{ tablet}}{300 \text{ mcg}} \right) = 0.5 \text{ tablets}$$

$$13. 375 \text{ mg} \left( \frac{1 \text{ tab}}{250 \text{ mg}} \right) = 1.5 \text{ tablets}$$

$$14. 0.4 \text{ g} \left( \frac{1000 \text{ mg}}{1 \text{ g}} \right) \left( \frac{1 \text{ tab}}{200 \text{ mg}} \right) = 2 \text{ tabs}$$

$$15. 1.5 \text{ mg} \left( \frac{8 \text{ mL}}{1 \text{ mg}} \right) = 12 \text{ mL}$$

$$16. 25 \text{ mg} \left( \frac{5 \text{ mL}}{12.5 \text{ mg}} \right) = 10 \text{ mL}$$

$$17. 60 \text{ mg} \left( \frac{0.4 \text{ mL}}{40 \text{ mg}} \right) = 0.6 \text{ mL}$$

$$18. 0.5 \text{ g} \left( \frac{1000 \text{ mg}}{1 \text{ g}} \right) \left( \frac{5 \text{ mL}}{250 \text{ mg}} \right) = 10 \text{ mL}$$

$$19. 15 \text{ mg} \left( \frac{5 \text{ mL}}{50 \text{ mg}} \right) = 1.5 \text{ mL}$$

$$20. 50 \text{ mg} \left( \frac{5 \text{ mL}}{25 \text{ mg}} \right) = 10 \text{ mL}$$