Proficiency Test 3

1. $\frac{15\text{mL}}{30\text{mEq}} \times 20\text{mEq} = \frac{300}{30} = \boxed{10\text{mL}}$

2. $\frac{5\text{mL}}{125\text{mg}} \times 80\text{mg} = \frac{400}{125} = \boxed{3.2\text{mL}}$

3. $\frac{1\text{ tablet}}{10\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} \times 0.02\text{g} = \frac{20}{10} = \boxed{2\text{ tablets}}$

4. $\frac{1\text{ capsule}}{250\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} \times 0.5\text{g} = \frac{500}{250} = \boxed{2\text{ capsules}}$

5. $\frac{1\text{ tablet}}{0.25\text{mg}} \times 0.5\text{mg} = \frac{0.5}{0.25} = \boxed{2\text{ tablets}}$

6. $\frac{5\text{mL}}{5\text{mg}} \times 40\text{mg} = \frac{200}{5} = \boxed{40\text{mL}}$

7. $\frac{1\text{ tablet}}{50\text{mg}} \times 75\text{mg} = \frac{75}{50} = \boxed{1.5\text{ tablets}}$

8. $\frac{1\text{ tablet}}{80\text{mg}} \times 40\text{mg} = \frac{40}{80} = \boxed{0.5\text{ tablet}}$

9. $\frac{10\text{mL}}{500\text{mcg}} \times \frac{1000\text{mcg}}{1\text{mg}} \times 0.125\text{mg} = \frac{1250}{500} = \boxed{2.5\text{mL}}$

10. $\frac{10\text{mL}}{50\text{mg}} \times 75\text{mg} = \frac{750}{50} = \boxed{15\text{mL}}$

11. $\frac{1\text{ tablet}}{2\text{mg}} \times 5\text{mg} = \frac{5}{2} = \boxed{2.5\text{ tablets}}$

12. $\frac{1\text{ tablet}}{300\text{mcg}} \times \frac{1000\text{mcg}}{1\text{mg}} \times 0.15\text{mg} = \frac{150}{300} = \boxed{0.5\text{ tab}}$

13. $\frac{1\text{ tablet}}{250\text{mg}} \times 375\text{mg} = \frac{375}{250} = \boxed{1.5\text{ tablets}}$

14. $\frac{1\text{ tablet}}{300\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} \times 0.6\text{g} = \frac{600}{300} = \boxed{2\text{ tabs}}$

15. $\frac{8\text{mL}}{1\text{mg}} \times 1.5\text{mg} = \frac{12}{1} = \boxed{12\text{mL}}$

16. $\frac{5\text{mL}}{12.5\text{mg}} \times 25\text{mg} = \frac{125}{12.5} = \boxed{10\text{mL}}$

17. $\frac{0.6\text{mL}}{40\text{mg}} \times 60\text{mg} = \frac{36}{40} = \boxed{0.9\text{ mL}}$

18. $\frac{5\text{mL}}{250\text{mg}} \times \frac{1000\text{mg}}{1\text{g}} \times 0.5\text{g} = \frac{2500}{250} = \boxed{10\text{mL}}$

19. $\frac{5\,mL}{50\,mg} \times 15\,mg = \frac{75}{50} = \boxed{1.5\,mL}$

20. $\frac{5\,mL}{25\,mg} \times 50\,mg = \frac{250}{25} = \boxed{10\,mL}$

Proficiency Test 4

1. $\frac{1\,mL}{250\,mg} \times \frac{1000\,mg}{1\,g} \times 0.5\,g = \frac{500}{250} = \boxed{2\,mL}$

2. $\frac{20\,mL}{40\,mEq} \times 10\,mEq = \frac{200}{40} = \boxed{5\,mL}$

3. $\frac{1\,mL}{0.25\,mg} \times 0.5\,mg = \frac{0.5}{0.25} = \boxed{2\,mL}$

4. $\frac{2\,mL}{0.2\,g} \times \frac{1\,g}{1000\,mg} \times 100\,mg = \boxed{1\,mL}$

5. $\frac{1\,mL}{100\,mg} \times 50\,mg = \frac{50}{100} = \boxed{0.5\,mL}$

6. $\frac{2\,mL}{0.5\,mg} \times 0.25\,mg = \frac{0.5}{0.5} = \boxed{1\,mL}$

7. $\frac{1\,mL}{0.4\,mg} \times 0.3\,mg = \frac{0.3}{0.4} = \boxed{0.75\,mL}$

8. $\frac{1000\,mL}{1\,g} \times \frac{1\,g}{1000\,mg} \times 1\,mg = \boxed{1\,mg\ subcutaneous}$

9. $\frac{100\,mL}{5\,g} \times 1\,g = \frac{100}{5} = \boxed{20\,mL}$

10. $\frac{5\,mL}{200\,mg} \times \frac{1000\,mg}{1\,g} \times 0.1\,g = \frac{500}{200} = \boxed{2.5\,mL}$

11. $\frac{mL}{500{,}000\,u} \times 400{,}000\,u = \boxed{0.8\,mL}$

12. $\frac{2\,mL}{0.5\,mg} \times 0.5\,mg = \frac{1}{0.5} = \boxed{2\,mL}$

13. $\frac{100\,mL}{50\,g} \times 1\,g = \frac{100}{50} = \boxed{2\,mL}$

14. $\frac{2\,mL}{100\,mg} \times 75\,mg = \frac{150}{100} = \boxed{1.5\,mL}$

15. $\frac{100\,mL}{1\,g} \times \frac{1\,g}{1000\,mg} \times 15\,mg = \boxed{1.5\,mL}$

16. $\frac{mL}{100mg} \times 35mg = \frac{35}{100} = \boxed{0.35mL}$

17. $\frac{mL}{0.4mg} \times 0.6mg = \frac{0.6}{0.4} = \boxed{1.5mL}$

18. $\frac{2mL}{0.2g} \times 0.15g = \frac{0.3}{0.2} = \boxed{1.5mL}$