Chapter 4

1. $1.5\,mg\left(\frac{1\,tab}{.75}\right) = 2\,tabs$

2. $0.25\,mg\left(\frac{1\,tab}{0.5mg}\right) = \frac{1}{2}\,tablet$

3. $0.5\,g\left(\frac{1000mg}{1g}\right) = 500mg\left(\frac{1\,tab}{250mg}\right) = 2\,tablets$

4. $10\,mg\left(\frac{1\,tab}{2.5mg}\right) = 4\,tablets$

5. $650\,mg\left(\frac{1\,tab}{325mg}\right) = 2\,tablets$

6. $20\,mg\left(\frac{1\,tab}{10mg}\right) = 2\,tablets$

7. $10mg\left(\frac{1\,tab}{2.5mg}\right) = 4\,tablets$

8. $200{,}000\,u\left(\frac{1\,tab}{400{,}000}\right) = 0.5\,tablet$

9. $0.5\,mg\left(\frac{1\,tab}{.25mg}\right) = 2\,tablets$

10. $18.75\,mg\left(\frac{1\,tab}{12.5mg}\right) = 1.5\,tablets$

11. $300mg\left(\frac{1\,tab}{200mg}\right) = 1.5\,tablets$

12. $0.3\,mg\left(\frac{1\,tab}{0.1mg}\right) = 3\,tablets$

13. 6.25 mg $\left(\frac{1\ tab}{25\ mg}\right)$ = 1/4 tablet

14 400 mcg $\left(\frac{1\ mg}{1000\ mcg}\right)$ = 0.4 mg $\left(\frac{1\ tab}{0.2\ mg}\right)$ = 2 tablets

15 7.5 mg $\left(\frac{1\ tab}{5\ mg}\right)$ = 1.5 tablet

16 0.625 mg $\left(\frac{1\ tab}{1.25\ mg}\right)$ = 1/2 tablet

17 0.5 g $\left(\frac{1000\ mg}{1\ g}\right)$ = 500 mg $\left(\frac{1\ tab}{250\ mg}\right)$ = 2 tablet

18. 37.5 mg $\left(\frac{1\ tab}{25\ mg}\right)$ = 1.5 tablet

19 1 g $\left(\frac{1000\ mg}{1\ g}\right)$ = 1000 mg $\left(\frac{1\ tab}{500\ mg}\right)$ = 2 tablets

20 25 mg $\left(\frac{1\ tab}{10\ mg}\right)$ = 2.5 tablet

Chapter 5

1. 0.1 g $\left(\frac{1000\ mg}{1\ g}\right)$ = 100 mg $\left(\frac{3\ mL}{200\ mg}\right)$ = 1.5 mL

2 5 mg $\left(\frac{1\ mL}{15\ mg}\right)$ = 0.3 mL

3. 25 mg $\left(\frac{2\ mL}{50\ mg}\right)$ = 1 mL

4. 20 units

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

6. $0.6\ mg\left(\frac{1\ mL}{0.4\ mg}\right) = 1.5\ mL$

7. $0.8\ mg\left(\frac{1\ mL}{0.4\ mg}\right) = 2\ mL$

8. $0.25\ g\left(\frac{1000\ mg}{1\ g}\right) = 250\ mg\left(\frac{1\ mL}{250\ mg}\right) = 1\ mL$

9. $200\ mg\left(\frac{2\ mL}{500\ mg}\right) = 0.8\ mL$

10. $7.5\ mg \times 100 = 750\ mg$

11. $10\ mg\left(\frac{1\ mL}{5\ mg}\right) = 2\ mL$

12. $25\ mg\left(\frac{2\ mL}{100\ mg}\right) = 0.5\ mL$

13. $50\ mg\left(\frac{1\ mL}{25\ mg}\right) = 2\ mL$

14. $0.5\ mg\left(\frac{1\ mL}{1\ mg}\right) = 0.5\ mL$

15. $0.2\ g\left(\frac{1000\ mg}{1\ g}\right) = 200\ mg\left(\frac{2\ mL}{200\ mg}\right) = 2\ mL$

Chapter 8

1. $\frac{20}{2.2} = 9.09 \times 40 \left(\frac{5\,mL}{125\,mg}\right) = 14.55\ mL$

2. $\frac{29}{2.2} \times 175 \left(\frac{5\,mL}{125\,mg}\right) / 3 = 30.76\ mL$

3. $30\,kg \times 200\,mg \left(\frac{5\,mL}{125\,mg}\right)$

4. $20.5\,kg \times 80\,mg \left(\frac{1\,tab}{80\,mg}\right) = 20.5\,mg$

5. $1\,mg \left(\frac{1\,mL}{5\,mg}\right) = 0.05\,mg$

6. $2\,mg \times 14 = 28 \left(\frac{1\,mL}{2\,mg}\right) = 14\ mL$

7. $5\,mg \times 30\,kg \left(\frac{5\,mL}{5\,mg}\right) = 150\,mg$

8. $0.5\,g$
   $\frac{48}{2.2} = x \left(\frac{1\,mL}{300\,mg}\right)$

9. $300\,mg \times 30\,kg \left(\frac{5\,mL}{100\,mg}\right)$

10. $60\,mg \left(\frac{12.5}{2.2}\right)\left(\frac{5\,mL}{30\,mg}\right)$