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Proficiency Test 3

1 $\frac{30mEq}{15mL}$ $\frac{20mEq}{?\,mL}$ = 10mL

2 $\frac{125mg}{5mL}$ $\frac{80mg}{?\,mL}$ = 3.2 → 3mL

3 $\frac{1g}{1,000mg}$ $\frac{0.02g}{?\,mg}$ = 20mg $\frac{10mg}{1\ tablet}$ $\frac{20mg}{?}$ = 2 tablets

4 $\frac{1g}{1,000mg}$ $\frac{0.5g}{?\,mg}$ = 500mg → $\frac{1\ cap}{250mg}$ $\frac{?\ cap}{500}$ = 2 capsules

5 $\frac{0.25mg}{1\ tab}$ $\frac{0.5mg}{?}$ = 2 tablets

6 $\frac{5mg}{5mL}$ $\frac{40mg}{?\,mL}$ = 40mL

7 $\frac{50mg}{1\ tablet}$ $\frac{75mg}{?}$ = 1.5 tablets

8 $\frac{80mg}{1\ tab}$ $\frac{40mg}{?}$ = 0.5 tablets

9 $\frac{1mg}{1000\ mcg}$ $\frac{0.125mg}{?}$ = 125mcg $\frac{500\ mcg}{10mL}$ $\frac{125mcg}{?}$ = 2.5mL

10 $\frac{50mg}{10mL}$ $\frac{75mg}{?}$ = 15mL

11 $\frac{2mg}{1\ tab}$ $\frac{5mg}{?}$ = 2.5 tablets

12 $\frac{1mcg}{0.001mg}$ $\frac{150mcg}{0.15mg}$ $\frac{300mcg}{1\ tablet}$ $\frac{150mcg}{0.5\ tablets}$

13 $\frac{250mg}{1\ tablet}$ $\frac{375mg}{?}$ = **1.5 tablets**

14 $\frac{1g}{1,000mg}$ $\frac{0.6g}{?}$ $\frac{300mg}{1\ tablet}$ $\frac{600mg}{?}$ = **2 tablets**

15 $\frac{1mg}{8mL}$ $\frac{1.5mg}{?}$ = **12mL**

16 $\frac{12.5mg}{5mL}$ $\frac{25mg}{?}$ = **10mL**

17 $\frac{40mg}{0.6mL}$ $\frac{60mg}{?}$ = **0.9mL**

18 $\frac{1g}{1,000mg}$ $\frac{0.5g}{?}$ $\frac{250mg}{5mL}$ $\frac{500mg}{?}$ = **10mL**

19 $\frac{50mg}{5mL}$ $\frac{15mg}{?}$ = **1.5mL**

20 $\frac{25mg}{5mL}$ $\frac{50mg}{?}$ = **10mL**

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Proficiency Test #4

1. $\frac{1g}{1,000mg}$ $\frac{0.5g}{500mg}$ → $\frac{250mg}{1mL}$ $\frac{500mg}{?}$ = 2mL

2. $\frac{40mEq}{20mL}$ $\frac{10mEq}{?}$ = 5mL

3 $\frac{0.25mg}{1mL}$ $\frac{0.5mg}{?}$ = 2mL

4. $\frac{1g}{1,000mg}$ $\frac{?}{100mg}$ = $\frac{0.1g}{?}$ $\frac{0.2g}{2mL}$ = 1mL

5 $\frac{100mg}{1mL}$ = $\frac{50mg}{?}$ = 0.5mL

6 $\frac{0.5mg}{2mL}$ $\frac{0.25mg}{?}$ = 1mL

7 $\frac{0.4mg}{1mL}$ $\frac{0.3mg}{?}$ = 0.75mL

8. 1mg 1:1000 → 1mL → 1mg/mL

9 20mL

10 $\frac{1g}{1,000mg}$ $\frac{0.1g}{100mg}$ $\frac{100mg}{?}$ $\frac{200mg}{5mL}$ = 2.5mL

11 $\frac{500,000\ units}{1mL}$ $\frac{400,000}{?}$ = 0.8mL

12 $\frac{0.5mg}{2mL}$ $\frac{0.5mg}{?}$ = 2mL

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13 1g ordered $\frac{1,000mg}{?}$ have $\frac{500mg}{mL}$ = 2mL

14 $\frac{100mg}{2mL}$ $\frac{75mg}{?}$ = 1.5mL

15 1:100 = 1% $\frac{10mg}{mL}$ $\frac{15mg}{?}$ = 1.5mL

16 $\frac{100mg}{mL}$ $\frac{35mg}{?}$ = 0.35mL

17 $\frac{0.4mg}{1mL}$ $\frac{0.6mg}{?}$ = 1.5mL

18 $\frac{0.2g}{2mL}$ $\frac{0.15g}{?}$ = 1.5mL

2.