

### Proficiency Test 3

1. 20 mEq 2x 30 mEq/15 mL

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

2. 80 mg po every 6 hrs. 125 mg/5 mL

$$\frac{5 \text{ mL}}{125 \text{ mg}} \cdot \frac{80 \text{ mg}}{1} = \frac{400}{125} = \boxed{3.2 \text{ mL}}$$

3. 0.02 g 2x 10 mg  
~~20 mg~~  $\boxed{2 \text{ tabs}}$

4. 0.5 g mg  $\boxed{2 \text{ capsules}}$

5. 0.5 mg  $\boxed{2 \text{ tabs}}$

6. 40 mg 5 mg/5 mL  
 $\boxed{40 \text{ mL}}$

7. 75 mg 50 mg  
 $\boxed{1.5 \text{ tabs}}$

8. 40 mg 80 mg  
 $\boxed{0.5 \text{ tabs}}$

9. 0.125 mg 500 mcg/10 mL  
 $\boxed{2.5 \text{ mL}}$

### Proficiency Test 3

10. 75 mg 3x 50 mg / 10 mL

15 mL

11. 5 mg every 4 hours 2 mg tabs

2.5 tabs

12. 0.15 mg 300 mg tab

0.5 tabs

13. 375 mg 250 mg tabs

1.5 tabs

14. 0.6 g every 4 hours 300 mg tabs

2 tabs

15. 1.5 2x 1 mg / 8 mL

12 mL

16. 25 mg every 4 hours 12.5 mg / 5 mL

10 mL

17. 60 mg 40 mg / 0.6 mL

0.9 mL

18. 0.5g 250 mg/5mL

$$\boxed{10 \text{ mL}}$$

19. 15 mg every 4 hrs. 50 mg/5mL

$$\frac{5 \text{ mL}}{50 \text{ mg}} \cdot 15 \text{ mg} = \frac{75}{50} = \boxed{1.5 \text{ mL}}$$

20. 50 mg every 6 hrs 25mg/5mL

$$\boxed{10 \text{ mL}}$$

## Proficiency Test 4

1. 0.5g IM 250 mg/mL

$$\cancel{0.5g} \cdot 0.5g = 500 \text{ mg} \quad \frac{1 \text{ mL}}{250 \text{ mg}} \cdot 500 \text{ mg} = \frac{500}{250} = \boxed{2 \text{ mL}}$$

2. 10 mEq IV 40 mEq/20 mL

$$\frac{20 \text{ mL}}{40 \text{ mEq}} \cdot 10 \text{ mEq} = \frac{200}{40} = \boxed{5 \text{ mL IV}}$$

3. 0.5 mg IM 0.25 mg/mL

$$\frac{1 \text{ mL}}{0.25 \text{ mg}} \cdot 0.5 \text{ mg} = \frac{0.5 \text{ mg}}{0.25 \text{ mg}} = \boxed{2 \text{ mL IM}}$$

4. 100 mg IM 0.2g/2mL

$$100 \text{ mg} = 0.1 \text{ g} \quad \frac{2 \text{ mL}}{0.2 \text{ g}} \cdot 0.1 \text{ g} = \frac{0.2 \text{ g}}{0.2} = \boxed{1 \text{ mL IM}}$$

5. 50 mg IM 100 mg/1 mL

$$\frac{1 \text{ mL}}{100 \text{ mg}} \cdot 50 \text{ mg} = \frac{50}{100} = \boxed{0.5 \text{ mL IM}}$$

6. 0.25 mg IM 0.5 mg/2 mL

$$\frac{2 \text{ mL}}{0.5 \text{ mg}} \cdot 0.25 \text{ mg} = \frac{0.5}{0.5} = \boxed{1 \text{ mL IM}}$$

7. 0.3 mg 0.4 mg/mL

$$\frac{1 \text{ mL}}{0.4 \text{ mg}} \cdot 0.3 \text{ mg} = \frac{0.3 \text{ mg}}{0.4 \text{ mg}} = \boxed{0.75 \text{ mL sub-q}}$$

8. not enough info

9. not enough info

10. 0.1g IM 200mg/5mL 0.1g = 100mg

$$\frac{5 \text{ mL}}{200 \text{ mg}} \cdot \frac{100 \text{ mg}}{1} = \frac{500}{200} = \boxed{2.5 \text{ mL IM}}$$

11. 400,000 units IM 500,000 units/mL

$$\frac{1 \text{ mL}}{500,000 \text{ units}} \cdot \frac{400,000 \text{ units}}{1} = \frac{400,000}{500,000} = \boxed{0.8 \text{ mL IM}}$$

12. 0.5mg IM 0.5mg/2mL

$$\frac{2 \text{ mL}}{0.5 \text{ mg}} \cdot \frac{0.5 \text{ mg}}{1} = \frac{1}{0.5 \text{ mg}} = \boxed{2 \text{ mL IM}}$$

13. not enough info

14. 75mg IM 100mg/mL

$$\frac{2 \text{ mL}}{100 \text{ mg}} \cdot \frac{75 \text{ mg}}{1} = \frac{150}{100} = \boxed{1.5 \text{ mL IM}}$$

15. not enough info

16. 35mg IM 100mg/mL

$$\frac{1 \text{ mL}}{100 \text{ mg}} \cdot \frac{35 \text{ mg}}{1} = \frac{35}{100} = \boxed{0.4 \text{ mL IM}}$$

17. 0.6mg 0.4mg/mL =  $\boxed{1.5 \text{ mL sub-q}}$

18. 0.15g IM 0.2g/mL =  $\boxed{1.5 \text{ mL IM}}$