

Madalyn Goble

Pg 269

1.  $\frac{800 \text{ units}}{1 \text{ hr}} \times \frac{250 \text{ mL}}{25,000 \text{ units}} = 8 \text{ mL/hr}$   $\frac{250 \text{ mL}}{8 \text{ mL/hr}} = 31.25 = 31 \text{ hrs}$

2.  $\frac{500 \text{ mg}}{1 \text{ hr}} \times \frac{100 \text{ mL}}{500 \text{ mg}} = 100 \text{ mL/hr}$

3.  $\frac{24 \text{ g}}{24 \text{ hr}} \times \frac{1000 \text{ mL}}{24 \text{ g}} = \frac{24000}{576} = 41.\bar{6} = 42 \text{ mL/hr}$

4.  $\frac{10 \text{ mg}}{1 \text{ hr}} \times \frac{100 \text{ mL}}{125 \text{ mg}} = 8 \text{ mL/hr}$

5.  $\frac{4 \text{ mg}}{1 \text{ hr}} \times \frac{100 \text{ mL}}{100 \text{ mg}} = 4 \text{ mL/hr}$

6.  $\frac{15 \text{ units}}{1 \text{ hr}} \times \frac{250 \text{ mL}}{125 \text{ units}} = 30 \text{ mL/hr}$   $\frac{250 \text{ mL}}{30 \text{ mL/hr}} = 8.\bar{3} = 8 \text{ hrs}$

7.  $\frac{250 \text{ mL}}{24 \text{ hr}} = 10.41\bar{6} = 10 \text{ mL/hr}$

8.  $\frac{1200 \text{ units}}{1 \text{ hr}} \times \frac{500 \text{ mL}}{25000 \text{ units}} = 24 \text{ mL/hr}$   $\frac{500 \text{ mL}}{24 \text{ mL/hr}} = 20.8\bar{3} = 21 \text{ hrs}$

9.  $\frac{13 \text{ units}}{1 \text{ hr}} \times \frac{250 \text{ mL}}{250 \text{ units}} = 23 \text{ mL/hr}$   $\frac{250 \text{ mL}}{23 \text{ mL/hr}} = 10.869 = 11 \text{ hrs}$

10.  $\frac{100,000 \text{ units}}{1 \text{ hr}} \times \frac{250 \text{ mL}}{750,000 \text{ units}} = 33 \text{ mL/hr}$

Pg 244

1.  $\frac{100 \text{ mL}}{150 \text{ mL/hr}} = 7 \text{ mL/hr}$   $\frac{150 \times 10}{60} = 25 \text{ gtt/min}$   $\frac{150 \times 60}{60} = 150 \text{ gtt/min}$   
 macro tubing

2.  $\frac{100 \times 10}{360} = 17 \text{ gtt/min}$   $\frac{100 \times 60}{360} = 3 \text{ gtt/min}$  micro tubing

3. Let 100 mL waste  $\frac{150 \times 15}{180} = 13 \text{ gtt/min}$   $\frac{150 \times 60}{180} = 50 \text{ gtt/min}$   
 macro tubing

4.  $\frac{500 \text{ mL}}{24 \text{ hrs}} = 21 \text{ mL/hr}$

5. Add 250 mL D5W to 100 mg powder + infuse over 1 hour  
 $\frac{250 \times 10}{60} = 42 \text{ gtt/min}$

6.  $\frac{500 \text{ mg}}{1} \times \frac{10 \text{ mL}}{1000 \text{ mg}} = 5 \text{ mL aminophylline}$   $\frac{250 \text{ mL}}{8 \text{ hr}} = 31 \text{ mL/hr}$

7.  $125 \times 20 = 2500 \text{ mL}$   $75 \times 4 = 300 \text{ mL}$   $2500 \text{ mL} + 300 \text{ mL} = 2800 \text{ mL}$

8.  $90 \text{ mL/hr}$   $\frac{1000 \text{ mL}}{90 \text{ mL/hr}} = 11 \text{ hrs}$

9.  $\frac{500 \text{ mg}}{500 \text{ mg}} \times \frac{50 \text{ mg}}{1 \text{ hr}} = 50 \text{ mg/hr}$

10. 75 mL of D5W to infuse over 60 min Set at 75 mL/hr