Taylor Love

1.) a) $1,000 \div 150 \approx$ 7 hours

b) $\frac{150\ mL}{60} \cdot \frac{10\ gtt}{1\ mL} =$ 25 gtt/min (macro)

$\frac{150\ mL}{60} \cdot \frac{60\ gtt}{1\ mL}$ 150 gtt/min (micro)

c.) macrotubing

2.) a) $\frac{100\ mL}{300\ min} \cdot \frac{10\ gtt}{1\ mL} \approx 3\ gtt/min^{macro}$

$\frac{100\ mL}{360} \cdot \frac{60}{1\ mL} \approx 17\ gtt/min^{micro}$

b.) microdrip

3.) a) Either set the pump to deliver 150 mL per 3 hours or let the bag empty till 150 mL.

b) $\frac{150\ mL}{180\ min} \cdot \frac{15}{1\ mL} \approx 13\ gtt/min$ (macro)

$\frac{150\ mL}{180\ min} \cdot \frac{60}{mL} \approx 50\ gtt/min$ (micro)

c.) micro because its smaller amount.

4.) 500 mL ÷ 24 hrs = 21 gtt/min

5.) a $\frac{125 \text{ mL}}{60 \text{ min}} \cdot \frac{10}{1 \text{mL}}$ = 21 gtt/min

b 125 mL/hr

6.) a 1g = 10 mL
500mg = 5mL

b $\frac{250}{8}$ = 31 gtt/min

7.) $\begin{array}{r} 125 \\ \times\ 20 \\ \hline 2500 \text{ mL} \end{array}$ $\begin{array}{r} 75 \\ 4 \\ \hline 300 \text{ mL} \end{array}$ 2800 mL

8.) a 90 mL/hr

b 1,000 ÷ 90 = 11 hours

9.) $\frac{0.5 \text{ g}}{500 \text{ mL}} \rightarrow \frac{500 \text{ mg}}{500 \text{mL}}$ 1:1 Ratio 1mg

10.) a 75 mL of D5W

b $\frac{75 \cdot 60}{60}$ = 75 mL/hour (60 min)

$\frac{75 \cdot 60}{90}$ = 50 mL/hour (90 min)