① $a = \dfrac{1000mL}{150mL/hr} = 7mL/hr$

$b = \dfrac{150 \times 10}{60} = 25\,gtts/min$ -macro

$\dfrac{150 \times 60}{60} = 150\,gtts/min$ -micro

$C = $ macrotubing.

② $a = \dfrac{100mL}{360} \times 10 = 3\,gtts/min$ -macro

$= \dfrac{100mL}{360} \times 60 = 17\,gtts/min$ -micro

$b = $ microtubing

③ $a = $ Set IV pump to infuse 150mL

$b = \dfrac{150}{180} \times 15 = 13\,gtts/min$

$\dfrac{150}{180} \times 60 = 50\,gtts/min$

$C = $ microtubing.

④ $a = \dfrac{500mL}{24} = 21\,mL/hr$

⑤ $a = 100mg$ powder to 250mL D5W.
give IVPB over 1 hr.

$b = \dfrac{250}{60} \times 10 = 42\,gtts/min$

⑥ $a = 1000mg$ in 10mL
add 5mL aminophylline to make 500 mg in 250 mL D5W

$\dfrac{50mg}{1000mg} \times 10mL = 5mL$ ⤴

$b = \dfrac{250mL}{8hr} = 31mL/hr$

$C = $ microtubing.

⑦ $125 \times 20 = 2500\,mL$

$75 \times 4 = 300$

$2500 + 300 = 2800\,mL$

⑧ $a = 90mL/hr$

$b = \dfrac{1000}{90} = 11\,hr.$

⑨ $0.5g = 500mg$

$50mL/hr = 50mg$

⑩ $a = $ need 75mL D5W
take 100mL bag, waste 25mL for 75mL
add 5mL bactrim to 75mL
· need to infuse for 60min

$b = \dfrac{75mL \times 60}{90min} = 50mL/hr$

⑪ $3/4 \times 500mL = 250mL$ Isocal

$150mL - 112.5mL = 37.5\,mL$ Water

⑫ $1/2 \times 500mL = 250mL$ Vivonex

$500\,mL - 250mL = 250mL$ Water

⑬ $25\% = 0.25$

$0.25 \times 400mL = 100mL$ Osmolite

$400mL - 100\,mL = 300mL$ Water

⑭ 0 mL of water