

Self Test 1

taylor's.

$$1. \frac{800 \text{ un}}{1 \text{ hr iv}} \times \frac{250 \text{ mL}}{25,000 \text{ un}} = \frac{200,000}{25,000} = 8$$

a. 8 mL/hr

$$\frac{25,000}{800} = 31$$

b. 31 hrs 1860 min

$$\frac{800}{25,000}$$

$$2. \frac{500 \text{ mg}}{1 \text{ hr}} \times \frac{100 \text{ mL}}{500 \text{ mg}} = \frac{50,000}{500} = 100$$

$$= 100 \text{ mL/hr}$$

$$3. \frac{24 \text{ g}}{24 \text{ hr}} \times \frac{100 \text{ mL}}{24 \text{ g}} = \frac{24,000}{576} = 41.6 \uparrow$$

$$= 42 \text{ mL/hr}$$

$$4. \frac{10 \text{ mg}}{\text{hr}} \times \frac{100 \text{ mL}}{125 \text{ mg}} = \frac{1,000}{125} = 8$$

$$= 8 \text{ mL/hr}$$

$$5. \frac{4 \text{ mg}}{\text{hr}} \times \frac{100 \text{ mL}}{100 \text{ mg}} = \frac{400}{100} = 4$$

$$= 4 \text{ mL/hr}$$

$$6. \frac{15 \text{ un}}{\text{hr}} \times \frac{250 \text{ mL}}{125 \text{ un}} = \frac{3750}{125} = 30$$

a. 30 mL/hr

b. 8 hrs

$$7. \frac{50\text{mg}}{24\text{hr}} \times \frac{250\text{mL}}{1\text{hr}} = \frac{12500}{24} = 520.8 \uparrow$$

$$= 521\text{ mL/hr}$$

$$8. \frac{1200\text{un}}{\text{hr}} \times \frac{500\text{mL}}{25,000\text{un}} = \frac{600,000}{25,000} = 24$$

- a. 24 mL/hr
b. 21 hr

$$9. \frac{23\text{un}}{\text{hr}} \times \frac{250\text{mL}}{250\text{un}} = \frac{5,750}{250} = 23 \quad \frac{250}{23} = 10.8 \uparrow - 11$$

- a. 23 mL/hr
b. 11 hr

$$10. \frac{100,000\text{un}}{24\text{hr}} \times \frac{250\text{mL}}{750,000\text{un}} = \frac{25,000,000}{750,000} = 33.3$$

$$= 33\text{ mL/hr}$$

Taylor S.

Proficiency Test

$$1. \frac{1,000 \text{ mL}}{150 \text{ mL}} = 6.66 \uparrow$$

- a. 6 hr 42 min
- b. 25 gts/min
- c. microdrip

$$\frac{10 \text{ gts}}{\text{mL}} \times \frac{150 \text{ mL}}{\text{hr}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \frac{1,500}{60} = 25$$

$$2. \frac{60 \text{ gts}}{\text{mL}} \times \frac{100 \text{ mL}}{6 \text{ hr}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \frac{6,000}{360} = 16.6 \uparrow$$

- a. 17 gts/min
- b. microdrip

$$3. \text{ a. Set volume to be infused at } 150 \text{ mL} \quad \text{b. } 3 \text{ hr} = 180 \text{ min}$$

$$\frac{60 \text{ gts}}{\text{mL}} \times \frac{150 \text{ mL}}{3 \text{ hr}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \frac{9,000}{180} = 50$$

c. 50 gts/min microdrip

$$4. \frac{500 \text{ mL}}{24 \text{ hr}} = 20.8 \uparrow$$

= 21 mL/hr 500 mL infusing

$$5. \frac{125 \text{ mL}}{\text{hr}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{10 \text{ gts}}{\text{mL}} = \frac{1,250}{60} = 20.8 \uparrow$$

= 21 gts/min

b. 125 mL/hr

$$6. \quad \frac{10\text{ml}}{1\text{g}} \times \frac{1\text{g}}{1000\text{mg}} \times \frac{500\text{mg}}{1} = \frac{5,000}{1,000} = 5$$

$$\frac{250\text{ml}}{8\text{hr}} = 31.2$$

a. 5ml

b. 31ml/hr micro 31gtts/min

$$7. \quad \frac{125\text{ml}}{\text{hr}} \quad \frac{125}{\times 25} \quad \frac{75}{\times 4}$$

$$2500 + 300$$

$$= 2800\text{ml}$$

$$8. \quad \text{a. } 90\text{ml/hr} \quad \frac{1,000}{90} = 11.1$$

b. 11hrs

$$9. \quad \frac{500\text{ml}}{0.5\text{g}} \times \frac{1\text{g}}{1,000\text{mg}} \times \frac{500\text{mg}}{500\text{ml}} \quad \frac{250,000}{250,000} = 1$$

$1\text{g} = 1\text{ml}$
 50ml/hr
 $= 50\text{mg}$

$$= 50\text{mg}$$

10. a. label IVPB

b. set pump 60min

secondary volume = 75ml

rate = 75ml/hr

90mins

$$\frac{75 \times 60}{90} = 50\text{ml/hr}$$

secondary volume = 75ml

rate = 50ml/hr

$$11. \quad \frac{3}{4} \times \frac{150\text{ml}}{1} = \frac{450}{4} = 112.5 \quad 150\text{ml} - 112.5 = 37.5$$

$$= 37.5\text{ml}$$

$$12. \quad \frac{1}{2} \times \frac{500}{1} = \frac{500}{2} = 250 \quad 500\text{ml} - 250 = 250\text{ml}$$

$$= 250\text{ml}$$

$$13. \quad \frac{50\text{ml}}{1\text{g}} \times \frac{2\text{g}}{1} = \frac{100}{1} = 100 \quad \frac{100\text{ml}}{\text{hr}} \times \frac{60\text{min}}{1\text{hr}} \times \frac{1}{30\text{min}}$$

$$\frac{6000}{30} = 200$$

a. 100 ml

b. 200 mL/hr $\rightarrow$ 30min

60mins $\rightarrow$ 100 mL/hr

$$14. \quad \frac{1000\text{ml}}{100\text{ml}} = 10$$

= 10hrs

10AM + 10hr = 8pm

= 8pm