

$$1. \frac{350 \text{ mg}}{25 \text{ ml}} = 14 \text{ mg/ml}$$

yes

$$2. \frac{18 \text{ mg}}{10 \text{ ml}} = 1.8 \text{ mg/ml}$$

$$3. \begin{array}{cc} 200 \text{ mg} & \text{to} & 300 \text{ mg} \\ \swarrow & & \swarrow \\ 6000 & & 9000 \\ \downarrow 4 & & \downarrow 6 \\ 1000 & & 1500 \end{array}$$

b - 1,200 mg every 4 hrs

$$4. \begin{array}{cc} 50 \text{ mg} & \text{to} & 75 \text{ mg} \\ \downarrow & & \downarrow \\ 1000 & & 1500 \\ \downarrow & & \downarrow \\ 500 \text{ mg} & & 750 \text{ mg} \end{array}$$

yes it is in range

$$5. \begin{array}{cc} 50 \text{ mg} & \text{to} & 75 \text{ mg} \\ \downarrow & & \downarrow \\ 1000 & & 1500 \end{array}$$

yes it is in range

$$7. 25 \text{ mL} \times 60 \text{ gtt/ml} = 1500 \text{ gtt/ml}$$

$$1500 / 30 \text{ min} = 50 \text{ mL/hr}$$

$$6. 40 \text{ mg/kg/24 hrs}$$

$$\downarrow$$

$$1200 \text{ mg} = 1.2 \text{ g}$$

$$\begin{array}{ccc} 6 & 8 & 12 \\ \swarrow & \downarrow & \downarrow \\ 300 & 400 & 600 \end{array}$$

b - 400 mg every 8 hrs

$$8. \begin{array}{cc} 80 \text{ mg} & \text{to} & 90 \text{ mg/kg/day} \\ \downarrow & & \downarrow \\ 520 \text{ mg} & & 585 \text{ mg} \end{array}$$

$$\begin{array}{r} 250 \text{ mg} \\ \hline 5 \text{ ml} \end{array} \quad \begin{array}{r} 275 \\ \hline x \end{array}$$

260 to 292.5      x = 5.5 ml

$$9. \begin{array}{cc} 50 \text{ mg} & \text{to} & 75 \text{ mg/kg/24hr} \\ \downarrow & & \downarrow \\ 750 & & 1125 \\ \downarrow & & \downarrow \\ 375 \text{ mg} & & 562.5 \text{ mg} \\ \downarrow & & \downarrow \\ 0.4 \text{ g} & & 0.6 \text{ g} \end{array}$$

c - exceeds recommended range

$$10. 25 \text{ mL} \times 60 = 1500 \text{ drops/min}$$

$$1500 / 15 = 100 \text{ mL/hr}$$

$$1500 / 30 = 50 \text{ mL/hr}$$

a - administer the med at 50 mL/hr

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11.  $50 \text{ mL} \times 60 = 3000 \text{ drops/min}$

$$3000 / 20 = 150 \text{ mL/hr}$$

$$3000 / 30 = 100 \text{ mL/hr}$$

C-100