

$$\textcircled{1} \quad \frac{40 \text{ mg}}{5 \text{ ml}} = \frac{2.5 \text{ mg}}{x}$$

$$40x = 12.5$$

$$x = 0.31 \text{ per dose}$$

$$\textcircled{2} \quad \frac{250 \text{ mg}}{1 \text{ ml}} = \frac{200 \text{ mg}}{x}$$

$$250x = 200$$

$$x = 0.8 \text{ ml}$$

$$\textcircled{3} \quad 66 \text{ lb} = 30 \text{ Kg}$$

$$66 / 2.2 = 30$$

$$\textcircled{4} \quad 10 \text{ mg} = 10,000 \text{ mcg}$$

$$10 \times 1000 = 10,000$$

$$\textcircled{5} \quad 50,000 \text{ mg} = 50 \text{ gm}$$

$$50,000 \div 1000 = 50 \text{ gm}$$

$$\textcircled{6} \quad 5000 \text{ g} = 5 \text{ Kg}$$

$$5000 \div 1000 = 5 \text{ Kg}$$

$$\textcircled{7} \quad \frac{50 \text{ mg}}{1 \text{ ml}} = \frac{30 \text{ mg}}{x}$$

$$50x = 30$$

$$x = 0.6 \text{ ml}$$

$$27.2 \text{ lbs} = 12.36 = 12.4 \text{ Kg}$$

$$1 \text{ mg / Kg} = 12.4 \text{ mg}$$

$$2 \text{ mg / Kg} = 24.8 \text{ mg}$$

dose a little high

$$(8) \quad 88 \text{ lbs} = 40 \text{ kg}$$

$$0.4 \text{ mg/kg/dose} = 40 \times 0.4 = 16 \text{ mg/dose}$$

$$\frac{2 \text{ mg}}{0.5 \text{ ml}} = \frac{16 \text{ mg}}{x}$$

$$2x = 16 \times 0.5$$

$$2x = 8$$

$$x = 4 \text{ ml/dose}$$

$$(9) \quad 1500 \text{ ml over 12 hours}$$

$$1500 \text{ ml} \div 12 = 125 \text{ ml/hr}$$

$$(10) \quad \frac{1 \text{ gram}}{50 \text{ ml}} \quad \text{so} \quad 50 \text{ ml over 30 minutes}$$

$$\frac{60 \text{ gtt/s}}{1 \text{ ml}} = \frac{x \text{ gtt/s}}{50 \text{ ml}}$$

$$x = 60 \times 50$$

$$x = 3000 \text{ gtt/s}$$

$$3000 \text{ gtt/s} \div 30 \text{ min} = \underline{\underline{100 \text{ gtt/min}}}$$

(11)

$$\frac{1 \text{ gram}}{50 \text{ ml}}$$

$$\frac{15 \text{ gtt}}{1 \text{ ml}} = \frac{x \text{ gtt}}{50 \text{ ml}}$$

$$1x = 750 \text{ gtt}$$

$$750 \text{ gtt} \div 45 \text{ min} = 16.67 = \underline{\underline{17 \text{ gtt/min}}}$$

(12)

$$200 \text{ lbs} = 90.9 \text{ kg}$$

$$1.5 \text{ mg/kg} \times 90.9 \text{ kg} = 136.4 \text{ mg} \\ = 136 \text{ mg } \textcircled{12}$$

(13)

$$\frac{4 \text{ mg}}{\text{ml}} = \frac{12 \text{ mg}}{x}$$

$$4x = 12$$

$$x = \underline{\underline{3 \text{ ml total}}}$$

$$3 \text{ ml} \div 4 = 0.75 = \underline{\underline{0.8 \text{ ml / dose}}}$$

(14)

$$\frac{100 \text{ mg}}{1 \text{ tab}} = \frac{250 \text{ mg}}{x \text{ tab}}$$

$$100x = 250$$

$$x = 2.5 \text{ tabs daily}$$