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$$1. \frac{350\text{mg}}{25\text{ml}} \times \frac{14\text{mg}}{1\text{ml}} \quad \boxed{\text{yes}}$$

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

$$3. \frac{200\text{mg}}{1\text{kg}} \times \frac{6000\text{mg}}{30\text{kg}}$$

$\boxed{\text{B, 1200mg Q4hr}}$

$$\frac{300\text{mg}}{1\text{kg}} \times \frac{9000\text{mg}}{30\text{kg}}$$

$$4. \frac{50\text{mg}}{1\text{kg}} \times \frac{1000\text{mg}}{20\text{kg}}$$

$\boxed{\text{yes}}$

$$\frac{75\text{mg}}{1\text{kg}} \times \frac{1500\text{mg}}{20\text{kg}}$$

$$5. \frac{50\text{mg}}{1\text{kg}} \times \frac{1000\text{mg}}{20\text{kg}}$$

$\boxed{\text{yes}}$

$$\frac{75\text{mg}}{1\text{kg}} \times \frac{1500\text{mg}}{20\text{kg}} \quad 1400\text{mg}$$

$$6. \frac{40\text{mg}}{1\text{kg}} \times \frac{1200\text{mg}}{30\text{kg}} \quad \boxed{B - 400\text{mg Q8hr}}$$

$$7. \frac{25\text{mL}}{0.5\text{hr}} = \boxed{50\text{mL/hr}}$$

$$8. \frac{80\text{mg}}{1\text{kg}} \times \frac{520\text{mg}}{6.5\text{kg}} = 260\text{ BID}$$

$$\frac{90\text{mg}}{1\text{kg}} \times \frac{585\text{mg}}{6.5\text{kg}} = 292.5\text{ BID}$$

recommended range is 260mg - 293mg Q12hr  
 $\frac{(275\text{mg})(5\text{mL})}{250\text{mg}} = \boxed{5.5\text{mL Q12hr}}$

$$9. \frac{50\text{mg}}{1\text{kg}} \times \frac{750\text{mg}}{15\text{kg}} \quad \overset{24\text{ hrs}}{375\text{mg}} \quad \text{Q12}$$

$$\frac{75\text{mg}}{1\text{kg}} \times \frac{1125\text{mg}}{15\text{kg}} \quad \overset{24\text{ hrs}}{563\text{mg}} \quad \text{Q12}$$

C, dose exceeds recommended range

$$10. \frac{40\text{mg}}{1\text{kg}} \times \frac{640\text{mg}}{16\text{kg}} \cdot Q8\text{hr}$$

A

$$\frac{25\text{mL}}{0.5\text{hr}} = 50\text{mL/hr}$$

$$\frac{25\text{mL}}{0.25\text{hr}} = 125\text{mL/hr}$$

$$11. \frac{50\text{mL}}{1\text{hr}} = 50\text{mL/hr}$$

$$\frac{50\text{mL}}{0.67\text{hr}} = 75\text{mL/hr}$$

40 min

$$C: \frac{50\text{mL}}{0.5\text{hr}} = 100\text{mL/hr}$$

$$\frac{50\text{mL}}{0.31\text{hr}} = 160\text{mL/hr}$$

18 min