MED MATH:

1. 350mg / 25mL = 14mg/mL which fits in between 10mg - 40mg per mL. $\boxed{\text{YES}}$

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

3. $\frac{200\text{mg}}{1\text{kg}} = \frac{x}{30\text{kg}}$ $\frac{300\text{mg}}{1\text{kg}} = \frac{x}{30\text{kg}}$

   x = 6,000mg/24hrs x = 9,000mg/24hrs

   6,000mg/6 = 1,000mg/4hrs 9,000mg/6 = 1,500mg/4hrs

   6,000mg/4 = 1,500mg/6hrs 9,000mg/4 = 2,250mg/6hrs

   $\boxed{\text{B}}$ → 1,200mg/4hrs fit in between 1,000mg - 1,500mg/4hrs

4. $\frac{50\text{mg}}{1\text{kg}} = \frac{x}{20\text{kg}}$ $\frac{75\text{mg}}{1\text{kg}} = \frac{x}{20\text{kg}}$ $\boxed{\text{YES}}$ 1,000mg fits in between 1,000mg - 1500mg

   x = 1,000mg x = 1,500mg

5. $\frac{50\text{mg}}{1\text{kg}} = \frac{x}{20\text{kg}}$ $\frac{75\text{mg}}{1\text{kg}} = \frac{x}{20\text{kg}}$

   x = 1,000mg/24hrs x = 1,500mg/24hrs

   1,000mg/2 = 500mg/12hrs $\boxed{\text{YES}}$ 700mg fits in between 500 - 750mg/12hrs

   1,500mg/2 = 750mg/12hrs

6. $\frac{40\text{mg}}{1\text{kg}} = \frac{x}{30\text{kg}}$ x = 1,200mg/24hrs 1,200mg/4 = 300mg/6hrs

   *1,200mg/3 = 400mg/8hrs

   $\boxed{\text{B}}$ 1,200mg/2 = 600mg/12hrs

7. $\frac{\text{volume} \times \text{drop factor}}{\text{mins}}$ $\frac{25\text{mL} \times 60\text{gtts/mL}}{30\text{mins}} = \boxed{50\text{mL/hr}}$