

$$\text{gtts/min} = \frac{V \times \text{drop factor}}{\text{time in mins}}$$

10. Calculate the IV flow rate for 392 mL of D5W IV over 582 min. Infusion set has drop factor of 74 gtts/mL. What is the IV flow rate in gtts/min?

$$\frac{392 \text{ mL} \times 74}{582} = \boxed{50 \text{ gtts/min}}$$

0700-0900: 100ml/hr
= 200ml
0900-0930 = 75ml
0930-1500 = 550ml
(1.5 hrs)
1500-1530 = 75ml
1530-1800 = 250ml
(2.5 hrs)

11. From 0700 to 1800 the nurse calculates the patient's total intravenous fluid intake as 1 milliliters. An IV is infusing at 100 mL/hour. At 0900 and 1500, the patient will receive IVPB of 75 mL for 30 minutes. What is the total amount the patient will receive during this time?

$$200 \text{ mL} + 75 + 550 + 75 + 250 = \boxed{1150 \text{ mL}}$$

$\times 1000$
 $\times 1000$
Kg g mg mcg

12. Ordered 7 g of Amoxicillin. Amoxicillin is available as 0.016 kg per 20 mL. How much will the nurse draw up?

$7 \text{ g} = 7000 \text{ mg}$ $0.016 \text{ kg} \times 1000 = 16 \times 1000 = 16,000 \text{ mg} / 20 \text{ mL}$

$$\frac{7000 \times 20}{16,000} = 8.75 = \boxed{8.8 \text{ mL}}$$

$\times 1000$ $\times 1000$
Kg g mg mcg

13. Potassium chloride is available as 0.016 kg per tablet. Potassium Chloride (K-Dur), 24,000,000 mcg, is ordered. How many tablets would the nurse administer?

$24,000 \text{ mg} - \text{ordered}$ $24,000 : 16,000 = \boxed{1.5 \text{ tablets}}$

0.016 Kg / tablet

$0.016 \times 1000 = 16 \times 1000 = 16,000 \text{ mg} / \text{tablet}$

14. Aggrastat at 23.8 mg in 129 mL is to be infused at 3 mcg/kg/hr in a patient who weighs 82 kg. At what flow rate in mL/hr will you set the pump?

0.003 mg/Kg/hr $0.003 \text{ mg} \times 82 \text{ Kg} = 0.25 \text{ mg/hr}$

$$\frac{0.25 \text{ mg/hr}}{23.8 \text{ mg/?}} \times \frac{23.8 \text{ mg}}{129} = \boxed{1.3 \text{ mL/hr}}$$

15. Administer 0.06 g of codeine po now. Available are 30 mg tablets. How many tablets should the nurse administer?

$0.06 \text{ g} = 60 \text{ mg po now}$ $60 : 30 = \boxed{2 \text{ tablets}}$

available: 30 mg tabs
? tabs