The Basics of Intravenous Fluid Administration

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1. Find the drops per minute
    (Similar to p.214 #1-20)

Amount of fluid in milliliters	Time in hours	IV set drop factor	Drops per minute
400	5	60	

$$drops = \frac{amt(mL)}{time(\min)} \times \text{drop factor}$$

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2. Find the drops per minute
    (Similar to p.214 #1-20)

Amount of fluid in milliliters	Time in hours	IV set drop factor	Drops per minute
500	3	20	

$$drops = \frac{amt(mL)}{time(\min)} \times \text{drop factor}$$

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3. Find the flow rate:
    (Similar to p.216 #1-10)

The nurse is asked to infuse 240 milliliters in 2 hours. Infuse at _____ milliliters per hour

$$\text{flow rate} = \frac{volume(mL)}{T(\text{in hours})}$$

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4. Find the flow rate:
    (Similar to p.216 #1-10)

The nurse is asked to infuse 2 liters in 12 hours. Infuse at _____ milliliters per hour

$$\text{flow rate} = \frac{volume(mL)}{T(\text{in hours})}$$

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5. Find the flow rate:
    (Similar to p.216 #1-10)

The nurse is asked to infuse 120 milliliters in 30 minutes. Infuse at _____ milliliters per hour

$$\text{flow rate} = \frac{volume(mL)}{T(\text{in hours})}$$

6. Find the infusion time in hours: (Similar to p.218 #1-10)

The patient is to receive LR 1200 milliliters at 150 milliliters per hour. Infuse for _____

$$\text{infusion time} = \frac{volume(mL)}{F(\text{in mL})}$$

7. Find the total volume infused: (Similar to p.220 #1-10)

The nurse will administer an IV solution at 60 milliliters per hour for4 hours. Find the total volume infused

$$\text{total volume} = \text{T (in hours) x F (in mL)}$$