1. You are running an IV of 500ml D/W without a pump. The tubing yields 18gtts/ml. The IV is to run @ 50ml/hr. What is the flow rate?

2. You have an IV infusing @ 75ml/hr. How much will the patient get on your 12-hour shift?

3. You hang an IV of 1000 ml RL @ 0700. You set the pump at 40ml/hr. What time will the bag be empty?

4. You are to give 60 mg. of Dilantin mixed in 100ml of NS. Dilantin is supplied as 100mg/2 ml. How much Dilantin will you add to the bag?

5. An IV med is diluted in 50ml and is to infuse in 15 min. How will you set the pump?

6. A client has had the following IV meds/fluid on your 12-hour shift:
   - Vancomycin 500mg in 150ml NS, over 30 min
   - Levaquin 100mg in 50ml D/W, over 15 min
   - IV D5RL @ 80ml/hr
The pump doesn’t run these solutions simultaneously. What is the client’s intake?

7. You are to give 100ml of 25% Albumin IV by gravity drip. The tubing yields 20gtts/ml. The infusion needs to run for 1 hour. How many gtts/min will you set the drip?

8. The order is for Kefzol 1 Gm in 50ml D5W. The rate on the pump is 150ml/hr. How long will the med take to infuse?

9. Your patient is on a Nitroglycerine drip with the concentration of 100mg in 1000ml D5W. Orders are to infuse it at 6mcg/min. What will the flow rate be on the pump?

10. The patient weighs 107 Kg. He is to receive Dopamine at a rate of 7mcg/kg/min. The concentration is 400mg in 250ml of solution. What is the flow rate on the pump?

11. The Lidocaine drip is infusing on a pump set at 18ml/hr. The solution is 2 Gm in 500ml D5W. How many mg/min is your patient receiving? The literature says you cannot run Lidocaine faster than 4 Mg/min. Is this a safe dose?

12. The Heparin drip is running at 15ml/hr. The concentration is 20,000 units in 500ml D5W. How much Heparin is the patient getting per hour? Is this within the therapeutic range?

13. The physician prescribes a continuous Cardizem drip at 12mg/hr. The Cardizem is mixed as 125mg in 100 ml of NS. How will you set the pump?

14. A PCA of Duramorph is ordered with a basal rate of 0.9 mg/hr. The concentration is 10mg in 50ml of NS. How many mg of the basal dose will the patient receive on your 12-hour shift? How many ml of fluid will he receive on your shift?

15. Infuse 3 mcg/kg/min of Dopamine. It is mixed as 500mg in 250ml of D5W. The patient weighs 194 pounds. What is the flow rate on the pump?