1. A nurse working on a hospital medical unit has a client on IV fluids. The healthcare provider has written a new prescription for 1500 mL D5W IV over 12 hours. What flow rate in mL/hr will the nurse set on the IV pump?

2. Your adult medical client has a new prescription for NS 1000 mL IV to infuse over 8 hours. The drop factor of your IV set is 20 gtts/mL. What is your flow rate in gtts/min?

3. Your client has a prescription for 1000 mL NS IV. You will need to use the gravity method of infusion. Your IV tubing set has a drop factor of 20 gtts/mL. You will use an infusion rate of 20 gtts/min. What is the infusion time for the IV fluid in hours and minutes?

4. A hospitalized client has a new prescription for 500 mL NS IV over 3 hours. What flow rate in mL/hr will the nurse set on the IV pump?

5. The IV tubing for your client in problem 7 is now 4 days old and must be changed according to your hospital's procedures. Your new IV set has a drop factor of 10 gtts/mL. You are starting a new bag of NS 1000 mL. What is your flow rate in gtts/min?

6. A nurse is administering 1500 mL D5W IV to a client by gravity using a rate of 40 gtts/min. The IV tubing has a drop factor of 15 gtts/mL. What is the infusion time for the IV fluid in hours and minutes?

7. Your client has a prescription for Zosyn 3.375 g in 250 mL NS IV over 2.5 hours four times daily. What flow rate in mL/hr will you set on the IV pump?

8. A client has a new prescription for D5W 1000 mL IV to be given over 6 hours. The drop factor of your IV set is 20 gtts/mL. What is your flow rate in gtts/min?

9. A nurse is administering medication in 500 mL NS IV to a client by gravity using a rate of 35 gtts/min. The IV tubing has a drop factor of 20 gtts/mL. What is the infusion time for the IV fluid in hours and minutes?

10. Your client has a prescription for minocycline hydrochloride ER tablets 135 mg PO daily for 12 weeks. Your client weighs 115 lb. Drug information: safe dose range is 1-2 mg/kg for ER tab PO daily for 12 weeks. Do not split, chew or crush these tablets. You have on hand minocycline HCl ER tabs in 50, 60 and 75 mg.

11. A nurse working on a hospital critical care unit has a client on IV fluids. The healthcare provider has written a new prescription for amiodarone 360 mg over six hours on a microdrip pump. Amiodarone 360 mg is contained in 500 mL NS. The drop factor for the IV tubing is 60 gtts/mL. What flow rate in mL/hr will the nurse set on the IV pump? 83.3 mL/hr What flow rate in gtts/min would the nurse use for a gravity infusion?

12. Your client has a prescription for trimethoprim 900 mg orally daily in 3 divided doses for 21 days. The client's weight is 140 lbs. Drug information: 10-15 mg/kg/day orally in 3 divided doses for 21 days. Tablets of 200 mg each are on hand. The tablets can be split.

13. Your client has a prescription for 1000 mL LR IV over 8 hours. What flow rate in mL/hr will you set on the IV pump?

14. A client has a prescription for 500 mL of NS to be given over 2 hours to deliver a medication. The drop factor of your IV set is 15 gtts/mL. What is your flow rate in gtts/min?

15. A nurse is administering medication in 1000 mL NS IV to a client by gravity using a rate of 30 gtts/min. The IV tubing has a drop factor of 20 gtts/mL. What is the infusion time for the IV fluid in hours and minutes?

16. A client is receiving 500 mL NS IV containing an antibiotic. The fluid is to infuse over 3 hours. The drop factor of your IV set is 15 gtts/ml. What is the initial flow rate of the IV fluid? 42 gtts/min You reassess the IV fluid after 1 hour and find 400 mL remaining in the bag. What would be the adjusted flow rate for the fluid in gtts/min?

17. Your client has a prescription for norepinephrine 360 mcg in 250 mL LR over 3 hours using a micropump. What flow rate in mL/hr will you set on the IV pump? 83.3 mL/hr The drop factor for the IV tubing is 60 gtts/mL. What flow rate in gtts/min would you use for a gravity infusion?

18. Your client has a prescription for prednisone 25 mg PO daily for 10 days. The client's weight is 75 kg. Drug information: safe dose 0.4-0.5 mg/kg/day PO X 5-10 days. Tablets are available in 1, 2.5, 5, 10 and 20 mg. The tablets can be split.

19. A hospitalized client has a new prescription for 2000 mL NS IV over 24 hours. What flow rate in mL/hr will the nurse set on the IV pump?

20. A client has a prescription for LR 500 mL IV to be delivered at the rate of 75 mL per hour. The drop factor of your IV set is 20 gtts/mL. What is your flow rate in gtts/min?

21. A client is receiving 1000 mL D5W IV over 8 hours. The IV tubing drop factor is 20 gtts/mL. What is the initial flow rate in gtts/min? The nurse reassesses the IV fluid after 3 hours and finds that 800 mL remain in the bag. What would be the adjusted flow rate for the fluid in gtts/min?

22. Your client has a prescription for 1000 mL NS IV. You will need to use the gravity method of infusion. Your IV tubing set has a drop factor of 15 gtts/mL. You will use an infusion rate of 20 gtts/min. What is the infusion time for the IV fluid in hours and minutes?

23. A hospitalized client on the critical care unit has a new prescription for sotalol 150 mg IV in 500 mL D5W over 4.5 hours by micropump. What flow rate in mL/hr will the nurse set on the IV pump? **111.1mL/hr** The drop factor of the IV tubing is 60 gtts/mL. What flow rate in gtts/min would you use for a gravity infusion?

24. A nurse is administering medication in 1000 mL LR IV to a client by gravity using a rate of 20 gtts/min. The IV tubing has a drop factor of 10 gtts/mL. What is the infusion time for the IV fluid in hours and minutes?

25. A nurse working on a hospital medical unit has a client on IV fluids. The healthcare provider has written a new prescription for moxifloxacin 400 mg in 1000 mL D5W IV over 9 hours daily for 14 days. What flow rate in mL/hr will the nurse set on the IV pump?

26. A client has a prescription for 250 mL of NS to be given over 1 hour to deliver a medication. The drop factor of your IV set is 15 gtts/mL. What is your flow rate in gtts/min?

27. Your client is receiving 1000 mL NS IV over 8 hours. The drop factor of your IV set is 15 gtts/mL. What is the initial flow rate of the IV fluid? 31 gtts/min You reassess the IV fluid after 2 hours and find 700 mL remaining in the bag. What would be the adjusted flow rate for the fluid in gtts/min?

28. A hospitalized client has a new prescription for 750 mL D5W IV via microdrip pump over 8 hours. The D5W contains isoproterenol 480 mcg. What flow rate in mL/hr will the nurse set on the IV pump? The drop factor for the IV tubing is 60 gtts/mL. What flow rate in gtts/min would the nurse use for a gravity infusion?

29. A client who weighs 115 lbs has a new prescription for cidofovir. The prescription is cidofovir 250 mg IV in 500 mL D5W over 4 hours. Repeat in one week. <u>Drug information</u>: safe dose range 4-5 mg/kg IV every week for 2 weeks.

30. Your client has a prescription for vasopressin 14.4 units IV in 750 mL NS over 6 hours using a micropump. What flow rate in mL/hr will you set on the IV pump? 125 mL/hr The drop factor for the tubing is 60 gtts/mL. What flow rate in gtts/min would you use for a gravity infusion?

31. A client has a prescription for LR 1000 mL IV to be delivered at the rate of 125 mL per hour. The drop factor of your IV set is 15 gtts/mL. What is your flow rate in gtts/min?

32. A client is receiving 750 mL NS IV containing an antibiotic. The fluid is to infuse over 6 hours. The drop factor of your IV set is 10 gtts/mL. What is the initial flow rate of the IV fluid? 21 gtts/min You reassess the IV fluid after 2 hours and find 600 mL remaining in the bag. What would be the adjusted flow rate for the fluid in gtts/min?

33. A client has a prescription for D5W 300 mL IV to be delivered at the rate of 100 mL per hour. The drop factor of your IV set is 20 gtts/mL. What is your flow rate in gtts/min?

34. Your client is receiving 1000 mL LR IV over 8 hours. The drop factor of your IV set is 20 gtts/mL. What is the initial flow rate of the IV fluid? 42 gtts/min You reassess the IV fluid after 2 hours and find 625 mL remaining in the bag. What would be the adjusted flow rate for the fluid in gtts/min?

35. A nurse is administering voriconazole to a client who weighs 130 lbs. The prescription is voriconazole 200 mg IV in 250 mL NS over 2 hours; repeat every 12 hours. Drug information: safe dose range 3-4 mg/kg IV every 12 hours.