1. The healthcare provider has prescribed fluconazole oral suspension 200 mg by mouth daily for 7 days. How many ml will the nurse give to the client per dose? **5mL**

   200mg ÷ 1400 mg × 35 mL = 5 mL per dose

2. You are working with a young adult client. The healthcare provider has prescribed Adderall XR capsules 60 mg daily in two divided doses at 0600 and 1200. How many capsules will the client take per dose? **2 caps/dose**

   60 mg ÷ 15 mg = 4 caps   4 caps ÷ 2 = 2 caps per dose

3. Your client taking Adderall XR has a new prescription. The client will now take the 45 mg of the medication daily in three divided doses at 0600, 1100, and 1400.   How many capsules will the client take per dose? **1 cap / dose**

   45 mg ÷ 15 mg = 3 caps   3 caps ÷ 3 = 1 cap per dose

4. A nurse is working in a pediatric clinic. A client who is 11 years old has a new prescription for diphenhydramine HCl elixir 40 mg by mouth daily in four divided doses. How many mL will the client take per dose? **4mL/dose**

      40 mg ÷ 12.5 mg × 5 mL = 16 mL   16 mL ÷ 4 = 4 mL per dose

5. The prescription for the 11-year-old client in problem 3 has changed. The client will now take diphenhydramine HCl elixir 60 mg by mouth daily in four divided doses. How many mL will the client take per dose? **6mL/dose**

      60 mg ÷ 12.5 mg × 5 mL = 24 mL   24 mL ÷ 4 = 6 mL per dose

6. A nurse is working with a 16-year-old client. The healthcare provider has written a prescription for phenytoin oral suspension 7 mg/kg/day by mouth in three divided doses. The client weighs 125 pounds. How many mL will the client take per dose? Round to the nearest tenth. **5.3mL/dose**

      125 lbs ÷ 2.2 = 57 kg   57 kg × 7 mg = 399 mg/kg

      399 mg ÷ 125 mg × 5 mL = 15.96 mL   15.96 mL ÷ 3 = 5.3 mL per dose

7. The nurse has another client who is 12 years old. This client has a prescription for phenytoin oral suspension 6 mg/kg/day by mouth in three divided doses. The client weighs 55 kg. How many mL will the client take per dose? **4.4mL/dose**

55 kg × 6 mg = 330 mg/kg

330 mg ÷ 125 mg × 5 mL = 13.2 mL   13.2 mL ÷ 3 = 4.4 mL per dose

8. A nurse working on a hospital medical client has a client on IV fluids. The healthcare provider has written an additional order for ondansetron 24 mg IV in three divided doses. How many mL of ondansetron will the nurse give per dose? **4mL/dose**

24 mg ÷ 4 mg × 2 mL = 12 mL   12 mL ÷ 3 = 4 mL per dose
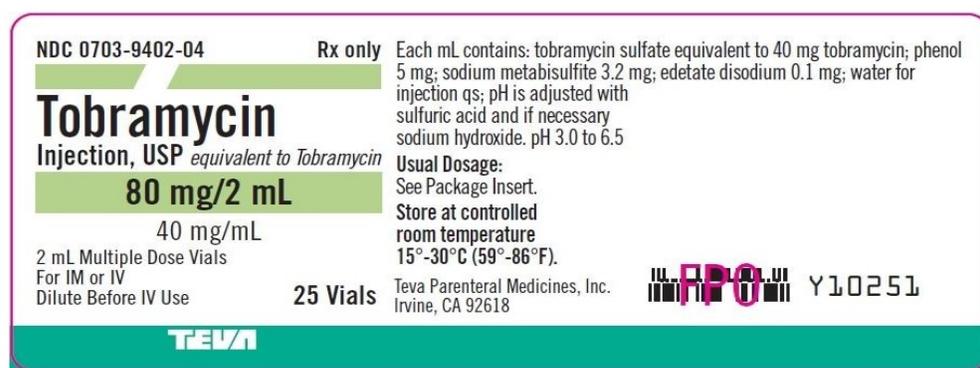
9. The hospitalized client from problem 7 above has a new prescription for tobramycin 1.5 mg/kg/day IV every eight hours in divided doses. The client weighs 180 pounds. How many mL will the nurse give per dose? Round to a whole number. **1 mL/dose**

180 lbs ÷ 2.2 = 82 kg   82 kg × 1.5 mg = 123 mg/kg

123 mg ÷ 80 mg × 2 mL = 3 mL   3 mL ÷ 3 = 1mL per dose

10. Your adult client has a prescription for promethazine HCl injection IM 100 mg daily in three divided doses. How many mL will you give per dose? Round to the nearest tenth. **1.3mL/dose**

    100 mg ÷ 25 mg × 1 mL = 4 mL   4 mL ÷ 3 = 1.3 mL per dose

11. Your client's prescription has changed to promethazine HCl injection IM 80 mg daily in three divided doses. How many mL will you give per dose? Round to the nearest tenth. **1.1mL/dose**

    80 mg ÷ 25 mg × 1 mL = 3.2 mL   3.2 mL ÷ 3 = 1.1 mL per dose

12. Your adult client has a prescription for amoxicillin oral suspension 1300 mg by mouth daily in three divided doses. What diluent will you mix with the powder for reconstitution? **Water** How much diluent will you use? **59mL** How many mL of the reconstituted medication will you give per dose? Round to the nearest tenth. **8.7mL/dose**

    1300 mg ÷ 250 mg × 5 mL = 26 mL   26 mL ÷ 3 = 8.7 mL per dose

13. Another of your adult clients has a prescription for amoxicillin oral suspension 400 mg by mouth every eight hours. How many mL of the reconstituted medication will you give per dose? **8 mL/dose**

       400 mg ÷ 250 mg × 5 mL = 8 mL per dose

14. A nurse is caring for a hospitalized adult client who weighs 150 pounds. The healthcare provider has written a prescription for dantrolene sodium IV 1 mg/kg every four hours. How many mL will the nurse give per dose? What is the diluent used to reconstitute the medication? Round to the nearest tenth. **1.4mL/dose**

       150 lbs ÷ 2.2 = 68 kg   68 kg × 1 mg = 68 mg/kg

    68 mg ÷ 250 mg × 5 mL = 1.4 mL

15. The client in question 15 has a new prescription. The prescription for dantrolene sodium IV has changed to 2.5 mg/kg IV every six hours. How many mL will the nurse give per dose? **3.4mL/dose**

       180 lbs ÷ 2.2 = 82 kg   82 kg × 2.5 mg = 170 mg/kg

       170 mg ÷ 250 mg × 5 mL = 3.4 mL per dose

16. **Client A** has a prescription for 10 million units of penicillin G potassium IV daily in four divided doses. The bottle of penicillin G potassium available on the unit was reconstituted using 75 mL of sterile water. How many mL will the nurse give per dose? **10mL/dose**

   10,000,000 units ÷ 250,000 units × 1 mL = 40 mL

   40 mL ÷ 4 = 10 mL per dose

17. **Client B** has a prescription for 20 million units of penicillin G potassium IV daily in six divided doses. The nurse uses 33 mL of sterile water to reconstitute a new bottle of penicillin G potassium. How many mL will the nurse give per dose? Round to the nearest tenth. **6.7mL/dose**

   20,000,000 units ÷ 500,000 units × 1 mL = 40 mL

   40 mL ÷ 6 = 6.7 mL per dose

18. **Client C** has a prescription for 30 million units of penicillin G potassium IV daily in six divided doses. The nurse uses 75 mL of sterile water to reconstitute a new bottle of penicillin G potassium. How many mL will the nurse give per dose? **20mL/dose**

   30,000,000 units ÷ 250,000 units × 1 mL = 120 mL

   120 mL ÷ 6 = 20 mL per dose

19. The prescription for **client C** has changed to 25 million units of penicillin G potassium IV daily in four divided doses. The nurse still has medication in the bottle of penicillin G potassium reconstituted with 75 mL of sterile water. How many mL will the nurse give per dose? **25mL/dose**

   25,000,000 units ÷ 250,000 units × 1 mL = 100 mL

   100 mL ÷ 4 = 25 mL per dose