

## Med Calc Exam 2 Practice Questions

1. A nurse is preparing to administer furosemide (Lasix) 3 mg/kg/dose PO every 12 hour to an infant who weighs 15 lb. Available is furosemide oral solution 10 mg/ml. How many mL should the nurse administer per dose? (Round the answer to the nearest whole number.)
2. A nurse is preparing to administer ranitidine (Zantac) 8 mg/kg/dose PO every 12 hr. to a child who weighs 46 lb. Available is ranitidine oral solution 15 mg/ml. How many mL should the nurse administer per dose? (Round the answer to the nearest whole number.)
3. A nurse is preparing to administer morphine 0.1mg/kg IV bolus to an infant who weighs 5 kg. Available is morphine 5 mg/ml injection. How many mL should the nurse administer? (Round the answer to the nearest tenth.)
4. A nurse is preparing to administer dexamethasone (Decadron) 0.4 mg/kg/day PO divided in equal doses every 12 hour to a school-age child who weighs 47 lb. Available is dexamethasone oral solution 0.5 mg/5 ml. How many mL should the nurse administer per dose? (Round the answer to the nearest whole number.)
5. A nurse is preparing to administer 0.9% sodium chloride 300 ml to infuse over 45 min. The nurse should set the IV pump to deliver how many mL/hr.? Round answer to a whole number.
6. Prescribed medication: 30 micrograms of digoxin IV q 12 hrs for a 10 kg child.  
Concentration: Digoxin 0.25 mg/ml  
How many milliliters should the nurse withdraw from the vial to administer one dose? Round answer to the nearest hundredth.
7. The nurse will administer 50 ml IVPB by gravity over 1 hour using IV tubing with a drop factor of 15 gtt/mL. The nurse will administer how many drops per minute?

8. The recommended range for a medication is 200 to 400 mg/kg/day. The patient weighs 8 kg. What is the safe dose range for this patient?
9. The pediatric dose for piperacillin sodium is 200 mg to 300 mg/kg/24 hours in equally divided doses every 4 to 6 hours. The patient weighs 30 kg. Which of the following is within the recommended range?
- A. 2000 mg every 4 hours
  - B. 1200 mg every 4 hours
  - C. 1450 mg every 6 hours
  - D. 6000 mg every 6 hours
10. The nurse is verifying the recommended dose for a 25 kg child receiving a medication. The recommended dose: 0.2 to 0.5 mg/kg/24 hours in equally divided doses every 6 hours. What is the recommended dose range per day? What is the safe dose range for doses given every 6 hours?
11. The nurse is to administer 220 mg of acetaminophen elixir PO. How many milliliters should the nurse draw up in the PO syringe? Round to the nearest tenth.

