

Dosage Calculations Test

All students must take a dosage calculation during the first week of the semester and achieve a 90%. See RNSG 2362 Syllabus and [Student Handbook](#) for policy on calculation exam.

Math Review; see also Dosage and calculation link
<http://www.nursesaregreat.com/articles/drugcal.htm>

Helpful Hints for Dosage Calculation Exam: Please know all conversions such as grains to mg, kg to lbs, gm to mg, how to calculate gtts per minute, cc's per hour, IVPB rates in cc's per hour, and heparin drip rates; how to set IV pumps..

These questions may or may not be representative of the questions on the exam, but will be helpful as a review.

1. How many grams are equivalent to 200 milligrams?
 - a. 0.2 g
 - b. 0.02 g
 - c. 0.002g
 - d. 2.0 g

2. Thirty milliliters are equivalent to how many liters?
 - a. 0.003 L
 - b. 0.03 L
 - c. 0.333 L
 - d. 3.0 L

3. A patient is to receive 300 mg of erythromycin (Erythrocin) oral suspension. The medication supplied contains 200 mg per 5 ml. How many milliliters should the patient receive?
 - a. 3.0 ml
 - b. 5.5 ml
 - c. 7.5 ml
 - d. 7.0 ml

4. Sulfisoxazole (Gantrisin) 1.5 gm is ordered for a patient. Gantrisin is available in 500 mg tablets. How many tablets should be administered to the patient?
 - a. 2 tabs
 - b. 3 tabs
 - c. 4 tabs
 - d. 2.5 tabs

5. The doctor ordered: "NS 1000ml over 8 hrs". You hang the NS at 1200. Four hours later, you notice 620 ml of NS still in the bag. The infusion set delivers 15 drops/ml. How many drops per minute should you set the remaining fluid to run to finish in the prescribed amount of time? If using a pump, at what rate would you set the pump?
 - a. 100 gtts/min
 - b. 62 gtts/min
 - c. 39 gtts/min
 - d. 29 gtts/min

6. Mrs. Morton is to receive Digoxin 0.125 mg . On hand is a vial labeled 500mcg/2ml. How many milliliters should the client receive?
- 5.0 ml
 - 1.5 ml
 - 0.3 ml
 - 0.5 ml

Answer questions 8-9 using following scenario:

The physician has ordered a Heparin bolus of 5,000 units IV followed by a Heparin drip at 1,000 units per hours. There is also an order for a stat PT/PTT.

7. The stat lab will be drawn:
- Before the Heparin bolus
 - After the Heparin bolus
 - After the Heparin drip has been running for 1 hr
 - Ten minutes after the Heparin drip is initiated
8. Using the standard drip [25,000 U in 500 ml], calculate the cc/hr you will program into the IV pump:
- 25 cc/hr
 - 20cc/hr
 - 60 cc/hr
 - 40 cc/hr
9. The standard mix for Lidocaine is 2 Gm in 500 ml. The physician orders a continuous drip @ 2 mg/min. How many ml per hour would you set the IV pump?
- 30 ml
 - 35 ml
 - 60 ml
 - 0.3 ml
10. The nurse is instructing a patient to take Isophane (NPH) Insulin at 5 PM each day per the physician's order. The patient should be instructed that she will be at greatest risk for hypoglycemia at about:
- 11 AM, shortly before lunch
 - 1 PM, shortly after lunch
 - 6 PM, shortly after dinner
 - 1 AM, during bedtime

Answers:

- a
- b
- c
- b
- c
- d
- a
- b
- a
- d