Please complete the following 10 questions as if you were taking a quiz or test (closed book). After completion, self-grade your answers. If an answer is incorrect, utilize the answer key provided and your Calculate with Confidence book to correct your work. This self-correction must be turned in as a ticket to the math competency exam.

Round doses to the nearest tenth unless otherwise noted. Round flow rates (mL/hr) to the nearest whole number. Make sure the unit of measure accompanies each answer.

1. Ordered: Ancef 0.375 g IM q 6 h
   Available: 
   How many milliliters will you administer?
   
   Answer: __________________

2. The recommended dosage of Ticar for an adult with a complicated UTI is 150 to 200 mg/kg/day IV in divided doses q 4 to 6 hours. Your patient weighs 194 lb
   a. What is the safe 24 hour dose range for this patient?
   
   Answer: _____________

   b. The patient’s ordered dose is 4 g IV q 6 hours (4 times daily). Is this dose safe? Why?
   
   Answer: _____________

3. Order: infuse 9 mL/hr of heparin
   Available: 25,000 units of heparin in 250 mL D5W
   How many units/hr will this patient receive?
   
   Answer: _____________
Use the following information to answer questions 4 & 5
Ordered: Nipride 0.3 mcg/kg/min. Pt weight = 176 lbs
Available: Nipride 50 mg in 250 mL D5W

4. How many mcg per minute will the patient receive?

Answer: ______________

5. Using the answer to question 4, calculate the rate in mL/hr required to infuse this dose.

Answer: _______________

6. Order: 50 units/kg/hr IV heparin. The patient weighs 122 lb. How many units should this patient receive per hour?

Answer: ______________

7. A. Ordered: 250 mL 0.9% NS at 30 mL/hr
Determine the infusion time.

Answer: ______________

B. Using the answer above, at what time will the infusion be complete if it is started at 7:00 pm?

Answer: ______________

8. Ordered: Zosyn 2 g in 100 mL D5W to infuse over 40 minutes.
At what rate would you set the IV pump?

Answer: ______________

9. List the components and percentage strengths of the following IV solution: D5½NS

Answer: ______________

10. Order: Dobutamine 12mcg/kg/min Pt weight: 165 lb.
Available: Dobutamine 1000 mg in 250 mL
At what rate would you set the IV pump?

Answer: ______________