N217 Math Competency Exam – Example

Directions: During examinations, when a medication dose is calculated, round decimals to the hundredth unless otherwise indicated. Place a zero to the left of the decimal point when appropriate. Show all work. Students may only use calculators provided by the Nursing Education Department.

1. Order: halperidol (Haldol) 6mg IM stat
   On hand: 5mg/ml
   Administer: _________________________

2. Order: Heparin 3000 units every 12 hours
   On hand: Heparin 10ml vial with 5000 units/ml
   Administer: _________________________

3. Order: Atropine sulfate gr 1 / 150
   On hand: atropine 0.3mg/ml Round the answer to the dosage that can be given accurately using 3 ml syringe
   Administer: _________________________

4. Order: Synthroid 0.15mg daily
   On hand: 300mcg/tablet
   Administer: _________________________

5. Order: Ancef 1 gm IVPB every 6 hours
   Ancef 1 gm in 100ml bag. Infuse in 45 minutes on an infusion pump. Round answer to the nearest hundredth and the nearest whole number.
   __________________________________

6. Order: Normal Saline 3000ml over 24 hours
   Calculate ml/hr and drops/minute. Tubing 15 gtts/ml. Round answers to the nearest hundredth and the nearest whole number.
   __________________________________

7. Order: Ampicillin 1gm every 6 hours
   Ampicillin 1 gm in 50ml of NS in 30 minutes. Infuse using an infusion pump. Round the answer to the nearest hundredth and the nearest whole number.
   __________________________________
Answers:
1. 1.2 ml
2. 0.6 ml
3. 1.3 ml
4. a half of a tablet
5. 133.33 ml/hr rounded to 133 ml/hr
6. 125 ml/hr and 31.25 gtts/min rounded to 31 gtts/min
7. 100 ml/hr