

Palomar College Nursing Education Department
Nursing 217 SAMPLE Math Competency Examination

Name _____

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

1. Order: Rocephin 500 mg IM q 12 hours.
 Supplied from pharmacy: Rocephin 350 mg/mL.
 Give:

2. Order: Levothyroxine 0.15 mg every day
 Supplied from pharmacy: Levothyroxine 350 mcg/mL suspension.
 Give:

3. Order: Penicillin 3,000,000 units po q 12 hours.
 Supplied from pharmacy: Penicillin 5,000,000 units/10mL suspension.
 Give:

4. Order: Droperidol 0.75 mg IM prn nausea.
 Supplied from pharmacy: Droperidol 2.5 mg/mL.
 Give:

5. Order Haldol 6 mg IM stat.
 Supplied from pharmacy: Haldol 5 mg/mL.
 Give:

6. Order: Nicotinic acid 0.3 Gm po q day.
Supplied from pharmacy: Nicotonic acid 200 mg/tablet.
Give:

7. Order: Heparin 2000 units SQ q 12 hours.
Supplied from pharmacy: Heparin 10 mL vial with 5,000 units/mL.
Give:

8. Order: Infuse 1000 mL of LR over 8 hours. The drop factor for the tubing is 10 gtts/mL. Calculate the rate in mL/hour and drops/min for this infusion. Round answers to the nearest whole number when necessary.

9. Order: Ancef 1gm IVPB q 6 hours.
Supplied from pharmacy: IVPB of 50 mL with Ancef 1gm. Infuse over 45 minutes using an infusion pump. Round answer to the nearest whole number when necessary.

10. Order: Infuse 140 mg amphotericin B IVPB q 24 hours.
Supplied from pharmacy: IVPB of 250 mL with amphotericin B 140 mg. Infuse over 3 hours using an infusion pump. Round answer to the nearest whole number when necessary.

Answers

1. 1.43 mL
2. 0.43 mL
3. 6 mL
4. 0.3 mL
5. 1.2 mL
6. 1.5 tablets
7. 0.4 mL
8. 125 mL/h
20.83 gtts/min
21 gtts/min
9. 66.66 mL/h
67 mL/h
10. 83.33 mL/h
83 mL/h